

**Wittenberg-Birnamwood
High School
Scheduling Handbook
2025-26**



WITTENBERG-BIRNAMWOOD SCHOOL DISTRICT

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Megan Rothmeyer - WBHS Principal

“Home of the Chargers”

Dear Students and Parents/Guardians,

The **Scheduling Handbook** is a helpful tool as students plan for graduation. In a highly competitive environment, having a good plan will give students an edge over their peers. Many options exist for students after high school, including college, technical college, the military or the workforce. Regardless of the direction you choose, careful consideration should be given to course rigor and relevance. These decisions should be made jointly by the parents and students in consultation with members of the WBHS Staff.

Decision Making Consideration:

Attention should be given to **personal goals and interests** as well as post high school aspirations. A thorough review of the student's past academic records and reference to career inventories should also be considered.

A commitment to **academic excellence** should be part of your decision rules when choosing classes. Course rigor along with exposure to experiences that stretch each individual is critical in making the most of your high school career.

In addition, with the adoption of the Academic and Career Planning (ACP), we are committed to working with the families to create four-year plans. Knowing that as individual interests and aspirations change throughout your son/daughter's high school career, the plan will change too. Again, we believe the foundation for success starts with a good plan.

The scheduling process should be taken seriously and course selections carefully contemplated. The courses students select during this process determines what courses will be offered the following year. It is also important to note that future changes to the selected courses will only be done on an individual basis with administrative approval. The Course Description Book contains a brief summary of each course along with the required sequence. A flow chart for each discipline is also included.

On behalf of the entire staff at WBHS, we wish for you a productive and fulfilling high school experience. Please let us know if we can be of assistance in any way as you help prepare your students for a successful high school experience.

Sincerely,

The Staff and Administration of Wittenberg-Birnamwood High School

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Core Requirements

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20-23	Science
24-27	Social Studies
28-30	Physical Education & Health

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47-48	Foreign Language
49-50	Music
51-55	Technology Education
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Non-Discrimination Policy

The Wittenberg-Birnamwood School District does not discriminate against pupils on the basis of sex, race, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability or handicap in its education programs or activities, political affiliation, arrest or conviction record, membership in the National Guard, State Defense or Reserve Component of the Military Forces of the United States or State of Wisconsin. Federal law prohibits discrimination in employment on the basis of age, race, color, national origin, sex, religion or handicap.

WBHS Graduation Requirements

Because the amount of credits available to students has increased, the amount of credits needed to graduate from WBHS will also proportionally increase as follows: **Class of 2026 must earn 26.0 credits to graduate from WBHS, Class of 2027 must earn 27.0 credits to graduate from WBHS, and the Class of 2028 must earn 28.0 credits to graduate from WBHS.**

<u>Curriculum Area</u>	<u>Credits</u>
English	4.0
Social Studies	3.5
Science	3.0
Mathematics	3.0
Physical Education	1.5
Health	0.5
Personal Finance	0.5
Electives	9.0
Academic Career Planning (ACP)	3.0

Required Credits by Grade

Freshman

1.0 cr English
1.0 cr Math
0.5-1.0 cr Science
1.0 cr History - Civics
0.5 cr Phy Ed 9
0.5 cr Health
2.5 cr Elective
.75 cr ACP

Sophomore

1.0 cr English
1.0 cr Math
1.0 cr Science
1.0 cr History - World History
0.5 cr Phy Ed
3.0 cr Elective (*including .75 cr ACP*)
.75 cr ACP

Juniors

1.0 cr English
1.0 cr - U.S. History/A.P. U.S. History
5.5 cr Elective
.75 cr ACP

Jr/Sr.

1.0 Science
1.0 Math
0.5 cr Phy Ed
0.5 Personal Finance

Senior

1.0 cr English
0.5 cr Sr U.S. History
6.0 cr Elective
.75 cr ACP

Advanced Placement (AP) Courses

WBHS offers several AP courses. AP courses include college-level course work and are more rigorous than the general high school curriculum. Students in AP classes are expected to meet higher expectations and a more demanding course load. **All students enrolled in AP courses have the option of completing the College Board AP exam that corresponds with the course. Students are required to pay the AP exam fee (those who receive Free/Reduced Lunch may be able to take the test at no cost to them). Students who score high enough on the exam will earn college credit! Which score is high enough to earn credit depends on each college. Students should check with their colleges of choice to find out what that score is.**

Dual Credit through Post-Secondary Institutions

Dual credit is the name given to a college level course delivered at WBHS and taught by a high school staff member. A student, who is of Junior or Senior status, will receive both high school and college credit for successfully completing these courses. *The credits may or may not transfer on to a student's school of choice. Students will want to check with the schools they are interested in to find that out.* Students will register with the college itself and will receive an official college transcript after the course is completed. WBHS is partnered with UW-Green Bay, NTC, and UW-Oshkosh, and is offering dual credits in several content areas including Mathematics, Science, Social Studies, English, Agriculture, Technology Education, Business Education, and Information Technology. The college's logo is located next to the WBHS courses that are dual credit. This is a great way for students to complete college courses in high school for free and save time and money when they get to college!

Youth Apprenticeship

In partnership with Northcentral Technical College, WBHS is proud to offer students the Youth Apprenticeship (YA) program. This is a one- or two-year program that combines academic and technical instruction with mentored, paid, on-the-job learning that makes a real world connection for students. Youth Apprentices work a minimum of 450 hours at their YA worksite each year of their program and take related high school or college classes to enhance their worksite experiences. Eligible students can leave school early or come in late, but are not required to do so, in order to gain paid work experience and earn high school credit at the same time! High school juniors and seniors are eligible to participate. This is for students who want to get hands-on learning in the workplace while seeing if their career interests are really what they see themselves doing after high school or post-secondary school. Some of the benefits of participating in the Youth Apprenticeship Program are:

- Earn a paycheck while learning from skilled professionals.
- Receive high school elective credit. (½ credit per trimester)
- Potentially earn college credit through Credit for Prior Learning opportunities.
- Receive a state-issued skills certificate, which is recognized by employers and colleges.
- Receive money to be spent on work clothes, tools, equipment and gas for their vehicles needed for your job. This requires pre-approval.
- Looks great on scholarships, college/tech school applications and job applications.
- Be acknowledged at the Senior Awards Night Ceremony and High School Graduation.

For more information, please see NTC's site: <https://www.ntc.edu/academics-training/youth-apprenticeships> or contact Mrs. Gruber or Mrs. Nier in student services.

Work-Based Learning

Juniors and seniors have the option to extend their learning on the job by participating in the Work-Based Learning program. Eligible students can leave school early or come in late one class period, but are not required to do so in order to gain paid work experience and earn high school credit at the same time! Seniors, with administrative approval, may do work-based learning for a maximum of three class periods. Students are responsible for finding their own employment. Students can earn a maximum of ½ credit per trimester for junior and senior years. **Students wishing to participate in work-based learning must first apply for the Youth Apprenticeship Program. If accepted to YA, students must participate in YA as part of their work-based learning experience.** In the event that a student does not submit their minimum required hours, he/she may not take Work-Based Learning during another trimester that same school year. Please see Mrs. Nier in Student Services (on the balcony) for more information.

Teacher Assistants

Juniors and seniors have the opportunity to be teacher assistants (TAs) during the school year. Teachers can agree to have interested students be TAs throughout the year, any number of trimesters, up to once a trimester. Students complete any tasks teachers need help with: grading assignments, making copies, cleaning up after projects, organizing materials, helping in class, tutoring, etc. Teacher assisting goes on a student's transcript, but they do not receive credit for being TAs, so they should plan ahead for this.

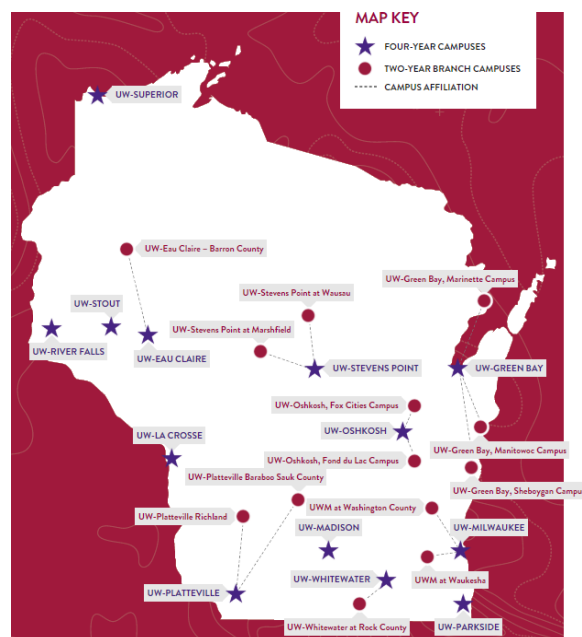
Early College Credit/Start College Now

The objective of the Early College Credit Program (ECCP) and Start College Now (SCN) is to offer students the ability to take college courses (dual credit) directly through colleges with their instructors. This will not affect the courses we offer, but rather how we can offer them to students. Students can take courses through ECCP and SCN once they have completed all courses in that content area here at WBHS. Cost for these options varies, but usually means less of a financial burden on the family's behalf. Once this is confirmed, students will be notified of any cost sharing expense.

4-Year College Entrance Information

If your plans after graduation include a four-year college, keep in mind the five major factors taken into consideration when admitting students into college:

1. **The quality and rigor of your course of study while in high school**
2. **The grades earned in these courses throughout your entire high school career (especially Senior year)**
3. **Your score on the ACT or SAT test**
4. **The personal recommendations of your counselors, teachers, coaches, principal, employers**
5. **Activities both in and out of school (an important factor when scholarships are awarded and when showing colleges you are the whole rounded student they want to admit)**



Each college has its own individual recommendations regarding

admissions and these may change yearly. Thus, you should identify these recommendations as early as possible to ensure you will meet them by high school graduation. Never hesitate to look on college websites as many will easily outline what they look for in a new admission. Below is the average profile of the admitted student to many schools in the UW-System. Private and out-of-state schools may have additional or different recommendations. If you are planning on going to a four-year college, plan your senior year to be no different than the first three years. Rigor is important and colleges look to make sure you did not "slack off" your final year. Continuing with your core classes is important (even if you don't

need the credit to graduate) because this shows colleges you are fresh and prepared to continue after high school.

Profile of a College Bound Student:

English	4 Years
Mathematics	4 Years
(including 1 year of Algebra, Geometry, and advanced math each)	
Social Studies	3-4 Years
Natural Science	3-4 Years
Single Foreign Language	2-4 Years
Additional Academics/Fine Arts	2 Years

Elective Credits

Elective Credits can be chosen from the above core college preparatory areas, foreign language, fine arts, computer science and other academic areas. Some UW System institutions may also accept vocational courses for some of these 4 elective credits.

Foreign Language

Many post-secondary schools require students to have at least two years of a single foreign language before they get to college. Not meeting this requirement will generally not have a large impact on a student's acceptance, but a college may require students to take two or more years before they graduate with their degree. Many schools show 3-4 years on their average admitted student profiles while others see foreign language as a great elective choice and count it as incoming elective credits. It is strongly recommended that students take a foreign language in high school so they better their chances of acceptance and don't have to take it in college. If you are unsure how the school(s) you are interested in looks at foreign language, please visit their websites, call them, or stop into student services.

For more information on the University of Wisconsin System visit uwhelp.wisconsin.edu/ or <http://www.waicu.org/> for Wisconsin's Private Colleges.

Wisconsin's Technical College Entrance Information

Technical colleges provide affordable, career-oriented programs for many high skilled, technical jobs in the state. Small class size, flexible scheduling, and a high job placement rate are all attractive features of these schools. Students spend most of their class time in job related settings where they receive hands-on training from experienced instructors. Degrees offered range from short-term programs and certificates to technical diplomas and associate degrees that take one to two years to complete.

Technical colleges currently have an open enrollment policy, which requires a high school diploma or equivalency diploma as well as an ACT or SAT score. Some specific programs within the tech school have more comprehensive requirements for admittance, like a particular test score, certification, or grade in a



certain class. For example, a Nursing Program might require high school chemistry with a grade of “C” or higher, a completed CNA certification, a background check, and a required score on the ACCUPLACER or ACT test. If a student does not do well enough on their ACT test, the college may ask them to complete the ACCUPLACER, or specific sections of it, as well. This can easily be setup to complete.

Like all other post-secondary schooling options, it is important to check the specific program requirements for the program of your choice. This information can be found on the admissions page of the college you are considering. There is also a variety of valuable information that can be found at www.witechcolleges.org.

Rural Virtual Academy (RVA) Class Parameters

- 9th and 10th Grade: RVA courses are not available for 9th and 10th graders
- WBHS required elective prerequisite to take RVA courses junior and senior year:
 - A student must have successfully completed, or is concurrently attending, an introductory course from five out of the following seven content areas: Agriculture, Art, Business & Information Technologies, Family & Consumer Science, Spanish, Music, and Technology Education.
 - In order to take RVA foreign language courses, a student must have successfully completed one full credit of Spanish I at WBHS if offered.
- 11th and 12th Grade: A maximum of two RVA courses may be taken if all WBHS elective introductory course requirements are met. (see above)
 - If any specific course is two trimesters in length during a given year, the student may only take that course for the year.
- Additional RVA Course Information:
 - A student-parent contract is required for any student taking an RVA course. If a student fails an RVA course, the student and family is responsible for all fees associated with the course.
 - If a student is enrolled in an RVA course for credit recovery (with the exception of transfer students), the student and family is responsible for all fees associated with the course.

ACADEMIC & CAREER PLANNING (ACP)

ACP 9

Grade: 9

Credits: .75 (.25 per trimester)

Course Description:

ACP 9 is a year-long course that fulfills .75 of a credit toward the requirements of graduation. Students will meet during an ACP period for 30 minutes per day Monday through Thursday. This course helps students with academic success and college and career readiness.

ACP 10

Grade: 10

Credits: .75 (.25 per trimester)

Course Description:

ACP 10 is a year-long course that fulfills .75 of a credit toward the requirements of graduation. Students will meet during an ACP period for 30 minutes per day Monday through Thursday. This course helps students with academic success and college and career readiness.

ACP 11

Credits: .75 (.25 per trimester)

Course Description:

ACP 11 is a year-long course that fulfills .75 of a credit toward the requirements of graduation. Students will meet during an ACP period for 30 minutes per day Monday through Thursday. This course helps students with academic success and college and career readiness.

ACP 12

Grade: 12

Credits: .75 (.25 per trimester)

Course Description:

ACP 12 is a year-long course that fulfills .75 of a credit toward the requirements of graduation. Students will meet during an ACP period for 30 minutes per day Monday through Thursday. This course helps students with academic success and college and career readiness.

ENGLISH

ENGLISH 9

Grade: 9

Credits: 1

Prerequisites: None

Course Description:

English 9 is a year-long course that fulfills one full credit toward the requirements of graduation. This course introduces various forms of literature from around the world and different styles of writing in accordance with the state standards and as a foundation for success in high school English. Topics of study include, but are not limited to literary analysis, informational text, narrative writing, drama, and public speaking.

English 9 includes developmental reading with an introduction to literature. A year-long emphasis is placed on vocabulary, grammar, and literary elements. Speaking skills are also developed as students participate in discussions about the literature and make connections to the world around them.

ENGLISH 9 - College Preparatory

Grade: 9

Credits: 1

Prerequisites: 8th grade teacher referral, Fastbridge data & previous English grades

Course Description:

English 9 CP is a year-long course that is designed for the college-bound students and fulfills one full credit towards the requirement of graduation. This course introduces various forms of literature from around the world and different styles of writing in accordance with the state standards and as a foundation for success in high school English. Students will be reading short stories, a novel, realistic fiction, historical documents, and a Shakespearean drama.

Students in this advanced class will be given assignments that go beyond the introductory level. This year-long course will include literary analysis, a narrative story, several written essays, speeches, and a research paper. Students in this class will be expected to write at an advanced level and have a firm grasp of proper grammar usage. In order to be recommended for English 10CP sophomore year, students need to achieve a 70% or above in English 9CP

ENGLISH 10

Grade: 10

Credits: 1

Prerequisite: English 9

Course Description:

In English 10, students will work with a wide variety of literature including fictional novels, short stories, plays, poems, and nonfiction literature. Students will gain an understanding of the texts in both literal, and figurative, or implied meaning levels. Students will clearly demonstrate this knowledge in both written and verbal form through discussions, assignments, and projects. This course is designed to meet the expectations of the reading and writing common core standards.

ENGLISH 10 - College Preparatory

Grade: 10

Credits: 1

Prerequisite: English 9CP or 90% or higher in English 9

Course Description:

In English 10CP, students will work with a wide variety of literature including fictional novels, short stories, plays, poems, and nonfiction literature. Students will gain an understanding of the texts in both literal, and figurative, or implied meaning levels. Students will clearly demonstrate this knowledge in both written and verbal form through discussions, assignments, and projects. Students in this class will be held to the highest standards of achievement in literary analysis in reading and writing in order to prepare them for the expectations of future college prep (AP) and college courses. In order to be recommended for English 11CP junior year, students need to achieve a 70% or above in English 10CP. This course is designed to meet the expectations of the reading and writing common core standards.

ENGLISH 11

Grade: 11

Credits: 1

Prerequisite: English 10 – May include teacher referral

Course Description:

- This is a course that incorporates American literature: novels and plays, Modern Language Association research paper writing, speeches, grammar review/ACT reading and writing preparation, critical thinking skills, and writing about various topics. Memoirs, informational text, and a Shakespeare tragedy also comprise subjects of study in this course as prescribed by the Wisconsin Common Core State Standards. Class may be subject to teacher placement.k

ENGLISH 11 - College Preparatory

Grade: 11

Credits: 1, Laude Points: 2

Prerequisite: English 10CP or 90% or higher in English 10

Course Description:

This is a course that incorporates analysis on American literature: novels and plays, Modern Language Association research paper writing, grammar review/ACT reading and writing prep, and critical thinking skills. Memoirs, informational text, and a Shakespeare tragedy also comprise subjects of study in this course as prescribed by the Wisconsin Common Core State Standards. Class may be subject to teacher placement. This course is geared toward students who have a proclivity toward the subject and are prepared to engage in a more rigorous, upper level English class.

ENGLISH ELECTIVES FOR GRADES 11 & 12

ORAL EXPRESSIONS

Grades: 11-12

Credits: ½

Prerequisites: None

Course Description:

This class focuses on the writing and delivery of speeches through student practice in class. Students will write and perform a variety of prepared and impromptu speeches including informative, demonstrative, persuasive, and entertaining speeches on a variety of different topics. This class is required for graduation. **If you are planning to pursue post-secondary schooling after graduation, you can earn three credits by taking COMM 133 at half the cost of regular tuition.**

COMMUNICATIONS 133: Fundamentals of Public Address

Grade: 12

Credits: ½, Laude Points: 1

Prerequisite: 3.25 GPA & spring enrollment during your junior year

Course Description:

The objectives of this course address the principles of public speaking, the performance of presentations on various topics, the demonstration of effective listening skills and audience etiquette, and the critique of what makes an effective speech. **This class is only open to seniors who have a 3.25 GPA or above. It is a college credit in high school course (CCHS) offered in conjunction with the University of Wisconsin-Green Bay. This course offers academically qualified seniors the opportunity to earn THREE college credits when they earn a C or higher in COMM 133. Students who qualify for this course will receive an application in the spring of their junior year which the WBHS instructor of COMM 133 will mail to UWGB for course enrollment. It is important to be aware that this is a college course and the expectations for the class will reflect this. The grade you earn will become part of your permanent college record.**



WRITING FOUNDATIONS 100

Grade: 12

Credits: ½, Laude Points: 1

Prerequisite: 3.25 GPA & spring enrollment during your junior year

Course Description:

Making the change from high school writing to college writing can be frustrating. Choosing your own topics, complicated time-intensive assignments, and the pressure to excel can overwhelm even the most experienced of writers. This class will teach writing strategies via individualized instruction and conferences, self/peer-editing, grammar and usage practice, and using academic/digital resources. Through the process of writing, students develop topics; support ideas; investigate sources, assess, and integrate appropriate resources; edit for effective word choice and style; and employ various contexts for different audiences and purposes. Writing includes expository, argumentative, and reflective including researched essays involving MLA and APA formats.

Students who enroll in WRITING FOUNDATIONS 100 must have a 3.0 GPA AND a 17 or higher on the ACT English section.



CREATIVE WRITING

Grades: 11-12

Credits: ½

Prerequisite: None

Course Description:

In Creative Writing, students will explore various styles of creative writing including short stories in a variety of genres and styles, and poetry. They work to improve grammar and style, and experiment with various writing exercises and formats. Working independently and in peer groups, students will create numerous works through the writing process. Students should welcome challenges in reading, discussion, and writing.

WRITTEN COMMUNICATION

Grade: 12

Credits: ½, Laude Points: 1

Prerequisites: Senior status

3 FREE TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS.

Credit will be earned by meeting expectations set forth by NTC.

Course Description:

Written Communication 10-801-195 is an elective class for seniors. Students develop BUSINESS writing skills which include prewriting, drafting, revising and editing. A variety of writing assignments are designed to help the student analyze audience and purpose, research and organize ideas and format and design documents based on subject matter and content. Students also develop critical reading and thinking skills through the analysis of a variety of written documents.



WORLD LITERATURE

Grades: 11-12

Credits: ½

Prerequisites: None

Course Description:

World Literature is a survey of a selection of major/popular works of literature from across the United States and the world. Students will study works of prose, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Students who take this course will increase their awareness of different cultures, sharpen their critical reading, thinking, and writing skills, and deepen their cultural sensitivity.

JOURNALISTIC WRITING I, II, and III

Grades: 11-12

Credits: ½

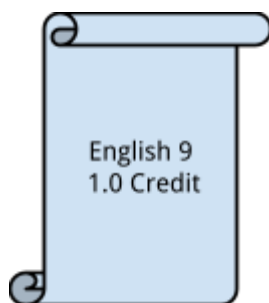
Prerequisites: None

Course Description:

This class helps students build interviewing, reporting, writing, and editing skills while learning about journalistic ethics and exploring forms such as feature writing, profiles, op-eds, surveys, puzzles, etc. Through in-class workshops, independent and paired writing and design, students develop their skills in ways that allow them to serve as editors, researchers, and reporters for each other while learning about layout, design, and other elements of production. Journalistic writing gives students a tool to engage constructively and productively with what's going on in their lives here at WBHS and in the surrounding communities. A course goal is to produce a school paper that will be available every two weeks. This course can be taken for a half credit each trimester.

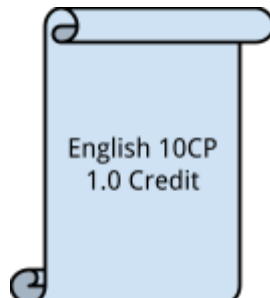
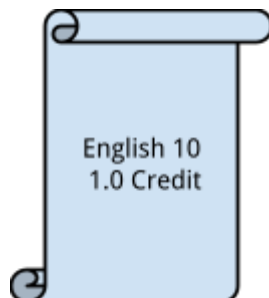
WBHS English Curriculum Continuum: Grades 9-12

9th

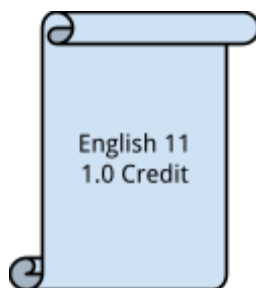


English	
Freshman	1 credit
Sophomore	1 credit
Junior	1 credit
Senior	1 credit

10th

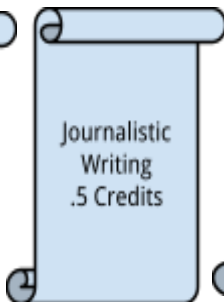
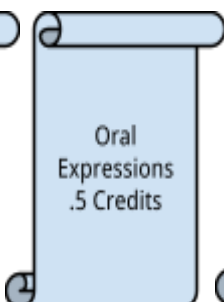
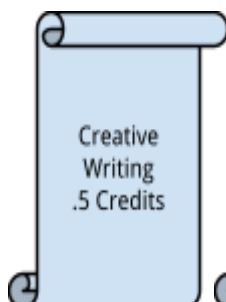


11th

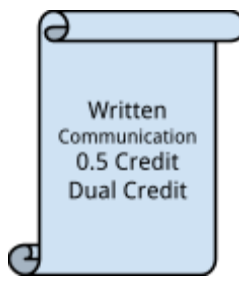
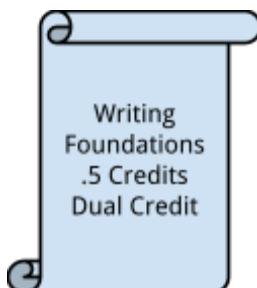
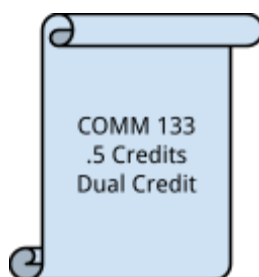


Juniors may take 1 credit of English 11 or 1 credit of 11CP, or two .5 credit courses chosen from the 11th or 12th grade course selections.

11th or 12th



12th



MATHEMATICS

PRE-ALGEBRA

Grade: 9 (teacher placement)

Credits: 1

Prerequisite: teacher recommendation

In this course, students will further their study of mathematics to include the world of algebra. The skills and processes learned in previous courses are now applied with more depth and rigor to algebraic and geometric concepts. Students are expected to have a firm grasp of all operational concepts. Only a cursory review of the operations is given, while an in-depth examination of the properties governing the operations becomes the focus. Writing, analyzing, and solving equations are again a major emphasis of the Pre-Algebra course. Trigonometric and nonlinear functions are introduced. The application of various problem-solving strategies learned throughout previous courses and in this one is of fundamental importance. Knowledge learned in this course of study is a prerequisite for the study of Algebra.

ALGEBRA

Grade: 9

Credits: 1

Prerequisite: Pre-Algebra or teacher recommendation based off of Fastbridge Data

Algebra is actually an extension of arithmetic. In this class, students learn to use ideas of arithmetic with letters and symbols in place of numbers and words. Some of the items studied are formulas, graphs, factoring, equations, ratio and proportion, probability, percents, scientific notation, and there is a strong emphasis on word problems. Algebra is designed so that it can be used in business, economics, and industry. It is also a foundation of the more complicated mathematical sciences. *Algebra taken in the 8th grade will not count towards high school credit, but it will allow you to take geometry as a freshman.*

MATH IN THE TECHNICAL CAREERS

Grade: 10, 11, 12

Credits: 1/2 elective

Prerequisite: Algebra

This course is designed for students interested in pursuing careers in the technical fields such as construction, mechanics, welding, manufacturing, etc. In this class, students learn to use algebraic and geometric concepts and apply them to real world applications and projects. Some of the topics studied are fraction and whole number operations, pythagorean theorem, arc length, area, perimeter, and volume. This class is designed so that it can be used in your future career, should you choose to pursue a technical career, or within your daily life during and after high school.

GEOMETRY

Grade: 10, 11, 12 (9 Geometry)

Credits: 1

Prerequisite: Algebra

This course establishes the tools of geometry, construction, the coordinate plane, and types of measurement. It also focuses on properties and applications of lines, triangles, quadrilaterals, similarity, right angle trigonometry, transformations, and circles. Formulas are developed for perimeter, area and volume. Algebra skills are reinforced with applications involving both linear and quadratic relationships.

ADVANCED ALGEBRA

Grade: 10, 11, 12

Credits: 1

Prerequisite: Algebra

Advanced Algebra can be taken along with Geometry. The student **must have** a teacher recommendation. This course is an extension of Algebra and Geometry. It is designed to help students complete the mastery of the fundamental skills of algebra and make connections to geometry. Some of the items studied will be right triangle trigonometry, matrices, equations and graphs of functions, solving quadratic equations, radical functions, rational exponents, exponential and logarithmic functions, complex numbers, systems of equations both linear and nonlinear, and algebra problems from other subjects, such as chemistry and physics. Students have a choice of enrolling in Pre-Calculus, AP Statistics, or College Algebra the following year.

COLLEGE ALGEBRA WITH APPLICATIONS

Grade: 11, 12

Credits: 1, Laude Points: 2

Prerequisite: Advanced Algebra

3 FREE TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS.

Credit will be earned by meeting expectations set forth by NTC.

10-804-195 This course covers those skills needed for success in Calculus and many application areas on a baccalaureate level. Topics include the real and complex number systems, polynomials, exponents, radicals, solving equations and inequalities (linear and nonlinear), relations and functions, systems of equations and inequalities (linear and nonlinear), matrices, graphing, conic sections, sequences and series, combinatorics and the binomial theorem.

This course would be similar to the last portion of Advanced Algebra and working into Pre-calculus. This course would be a great opportunity to earn technical college credit.



PRE-CALCULUS

Grade: 11, 12

Credits: 1, Laude Points: 2

Prerequisite: Geometry, Advanced Algebra

This course gives the prospective college student a background in trigonometry, analytic geometry, advanced algebra, functions, and introductory calculus. Successful completion of this course will enable a student to step into a beginning calculus course in college.

STATISTICS

Grade: 11, 12

Credits: 1, Laude Points: 2

Prerequisite: Advanced Algebra or teacher recommendation

3 FREE TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS.

Credit will be earned by meeting expectations set forth by NTC.

10-804-189 Students taking Introductory Statistics display data with graphs, describe distributions with numbers, perform correlation and regression analyses and design experiments. They use probability and distributions to make predictions, estimate parameters and test hypotheses. They draw inferences about relationships including ANOVA.

****All students have the option of completing the AP exam at the end of the course. Students are required to pay the exam fee (those who receive Free/Reduced Lunch may be able to take the test at no cost to them).****



AP CALCULUS

Grade: 12

Credits: 1, Laude Points: 2

Prerequisite: Pre-Calculus and/or teacher recommendation

3 FREE TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS.

Credit will be earned by meeting expectations set forth by NTC.

10-804-198 Analyze and graph algebraic expressions, especially conic sections. Develop an intuitive understanding of limits, derivatives and integrals. Apply the derivative and the integral to certain physical problems.

****All students have the option of completing the AP exam at the end of the course. Students are required to pay the exam fee (those who receive Free/Reduced Lunch may be able to take the test at no cost to them).****



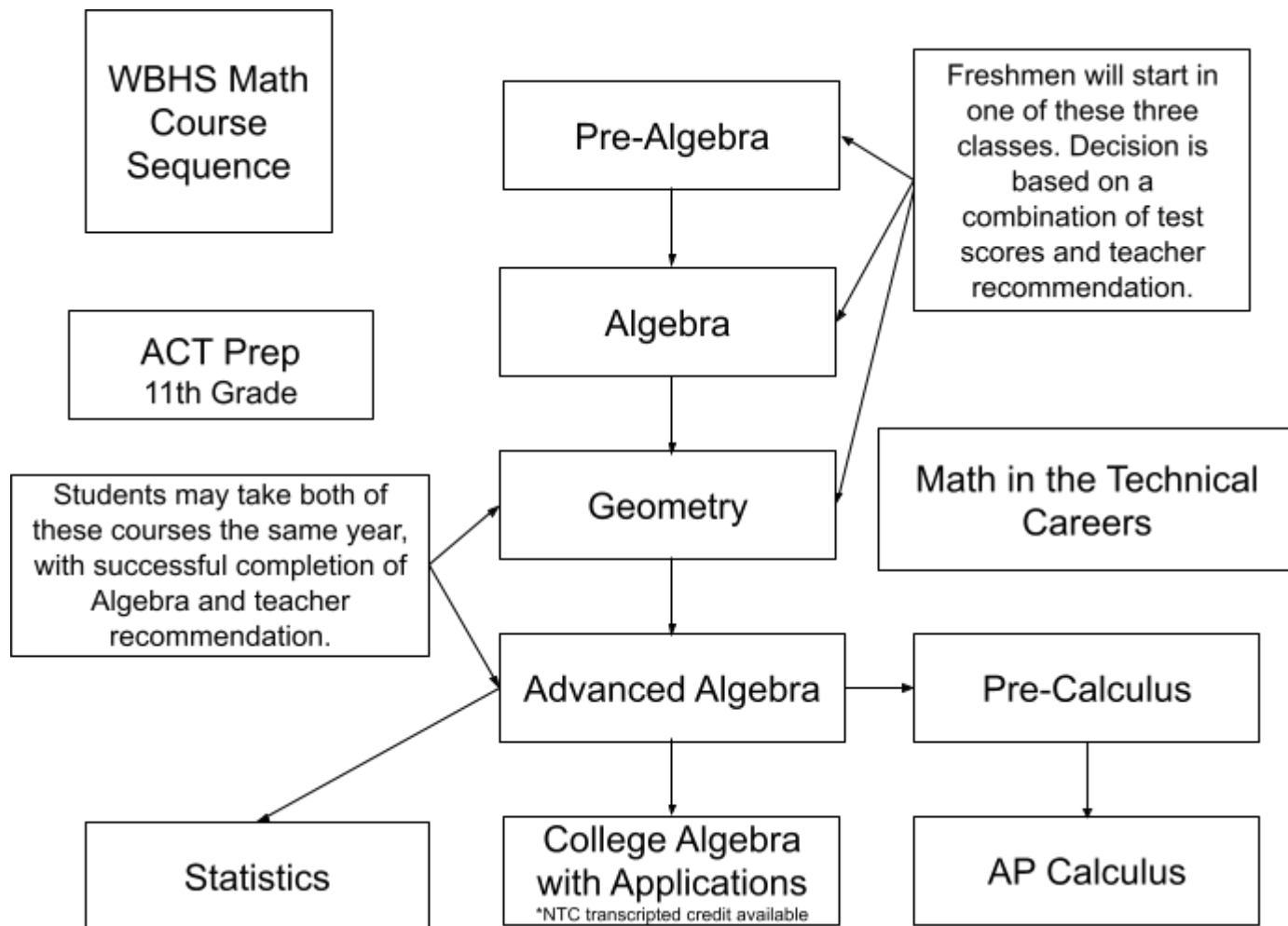
ACT PREP MATH

Grade: 11

Credits: .5

Prerequisite: Juniors Only

This course is a way for students to prepare for and practice test taking strategies for the math portion of the ACT exam. It is designed to help students review and practice the concepts that are seen on the ACT exam. The six areas of math that are tested on the ACT are Pre-Algebra, Algebra, Intermediate Algebra, Coordinate Geometry, Plane Geometry and Trigonometry.



SCIENCE

SCIENCE 9

Grade: 9 - **REQUIRED**

Credits: ½

Prerequisite: None

Students study basic concepts of chemistry, measurements and the metric system. Students are expected to identify parts of elements; demonstrate the differences between solids, liquids and gasses, name compounds, balance equations, as well as, identify the physical and chemical properties of substances. In addition, students will use the periodic chart to identify elements, and gain an understanding of why the periodic chart is arranged the way it is. Students will also be introduced to organic chemistry and the biological molecules that enable living organisms to develop. A basic understanding of the pH scale and what acidic, alkaline and neutral substances are and how solutions are made, and the solubility affected by environmental temperature and pressure. Students will also gain a comprehensive knowledge of the basic workings of lab equipment and procedures and proper laboratory safety and techniques.

BIOLOGY

Grade: 10 - **REQUIRED**

Credits: 1

Prerequisite: **Science 9 completed**

Students will study the biological themes and processes, along with the biological molecules associated with organic chemistry. A rich understanding of cell structure and function, the functioning of the cellular membrane and the process of cellular division that includes mitosis and meiosis. Students can expect to develop a deep understanding on the formation of biological terms and how the recognition of affix meanings can help translate the sometimes difficult terminology associated with biology. Students will also be introduced to the world of microorganisms and the role that they play throughout life. This course will also introduce students to basic human biology, organization of tissues, organs and organ systems, genetics, and heredity. All students will be expected to acquire an understanding of the scientific process, and use these processes to guide them through various labs and proper laboratory processes.

AP BIOLOGY

Grade: 11-12 **ELECTIVE**

Credits: 1 - WBHS, AP Credit varies by College, Laude Points: 2

****Can take course without taking AP biology test (do not need to pay)**

Credits may be transferable to other technical and four-year schools

Prerequisite:

Meet at least ONE of the following:

- Class rank in the top 30 percent
- GPA of 2.75 or above



This course will model a typical freshman college biology course and is designed to prepare students to take the AP Biology test given in May each year. This course goes into biological concepts such as evolution, cellular energy, cellular structure, information transference and multi-level system interactions at a higher level of rigor than introductory biology. Through this course, students will also conduct inquiry-based investigations. The expectations of this course may be greater than those of your previous science classes but is a perfect option for students pursuing a 2 or 4 year degree or for those who simply love science.

EARTH & SPACE SCIENCE

Grade: 9-10 **ELECTIVE**

Credits: ½

Earth & Space Science is a physical science that studies the dynamic processes that shape our planet earth as well as investigate our place in our galaxy and our universe. The focus of this course will be studying space, Earth's energy system, weather & climate, and natural resources and hazards. Through lectures, labs, and projects, students will study how the universe was formed, life cycles of stars, current explorations of space, energy and feedback loops, plate tectonics, weather phenomenon, and the cost, risks, and benefits of natural resource use.

CHEMISTRY

Grade: 10, 11, 12 **HIGHLY SUGGESTED** *(for college-bound students or any science related career)*

Credits: 1

Prerequisite: **Completion of Biology or Instructor Approval; Completion of Algebra**

In Chemistry, students study the properties of matter and how those properties determine chemical activity. Students start out studying atoms and atomic structure, which are the building blocks for molecules, compounds, and formulas. Once students master the concepts of compounds and formulas, they use acquired knowledge to study water, phases of matter, energy, gas laws, acids, bases, and salts. Strategies used to teach this course include lecture time, problem solving, and laboratory work. Chemistry is required by college and technical schools for most science related majors. If you are considering college as part of your post secondary plan, it is highly advised to take this level of chemistry. Entrance into some programs is prohibited without a high school chemistry class. Careers that require chemistry are medicine, engineering, paper science, wildlife biology, nursing, chemistry, pharmacy, and many other professions.

PHYSICS: Mechanics (M)

Grade: 11, 12 - **ELECTIVE**

Credits: 0.5, Laude Points: 1

Prerequisite: **Completion of Algebra**

Physics is the study of the basic laws of how the universe works. This class is taught with focus both on conceptual and mathematical understanding of topics in mechanics including: one and two dimensional motion, acceleration, forces, work, and collisions. Students will explore these topics using scientific and engineering processes to solve problems, design and conduct experiments, and create prototypes. Students who have successfully completed Algebra will have the necessary math tools needed to be successful in this course. Physics: Mechanics is a prerequisite for the other Physics course offered. Physics is encouraged for students who are planning to study engineering, science, math, or medicine in the future and for students who have a general interest in science.

PHYSICS: Waves and Energy (W)

Grade: 11, 12 - **ELECTIVE**

Credits: 0.5, Laude Points: 1

Prerequisite: **Physics Mechanics**

Physics is the study of the basic laws of how the universe works. This class is taught with focus both on conceptual and mathematical understanding of topics including: energy, thermodynamics, waves, sound, static electricity, electrical forces and circuitry, magnetism and magnetic fields, optics, and nuclear physics. Students will explore these topics using scientific and engineering processes to solve problems, design and conduct experiments, and create prototypes. Students who have successfully completed Algebra will have the necessary math tools needed to be successful in this course. Physics is encouraged for students who are planning to study engineering, science, math, or medicine in the future and for students who have a general interest in science.

HUMAN ANATOMY AND PHYSIOLOGY

Grade: 11, 12 - **ELECTIVE**

Credits: 1, Laude Points: 2

Prerequisite: **HAP A-Completion of Biology, Completion of Chemistry, HAP B-Must have completed HAP A with a grade of C- or better.**

Human anatomy and physiology is the study of the parts of the human body and how they function. Students learn different systems that are found in the body: the skeleton, muscles, digestive, nervous, circulatory, endocrine, respiratory, urinary, and reproductive systems. Lab work includes dissection work on animal parts for some systems. Lab work also includes many labeled diagrams of the different anatomical parts. This class is very helpful to first year college zoology students and second year anatomy students. Human anatomy and physiology would be useful in careers as a nurse, doctor, physical therapist, trainer, medical technologist, coach, physical education instructor, and many others.

BIOFORENSICS

Grade: 11, 12 - **ELECTIVE**

Credits: ½

Prerequisite: **Completion of Biology, Completion of Chemistry A, Completion of Algebra, Placement to upper-classmen first.**

CSI anyone? Forensic science is the application of science to law. In this class we will use knowledge and laboratory techniques to solve problems and “cases”. Biological forensics will challenge students to problem solve and use critical thinking skills. Students will process crime scenes, analyze lab data, conduct scientific investigations, interact with guest speakers, and do many hands-on learning activities. Units to be covered: Introduction and History, Processing Crime Scenes, Physical Evidence, Serology-blood identification, Determining time of death, Toxicology, Fingerprints and Impressions, and Document Analysis.

WILDLIFE ECOLOGY

Grade: 11, 12

Credit: ½

Prerequisite: None

Length: 1 Trimester

Looking for a career in the outdoors? This is the perfect class for you. Learn about Wisconsin wildlife species and wildlife management. Students will learn how to create a management plan to improve habitats for the wildlife of Wisconsin. Learn the art of deer antler scoring and management of whitetails in Wisconsin. Students will learn about the opportunity to get involved in their career and leadership development activities offered in conjunction with FFA and their possible SAE in the agricultural fields.

WBHS Science Curriculum Pathway *Must have 3 science credits to graduate*

	Required (recommended this grade level)	Electives (not required this year)	Approval Only (science career focus)
9 th Grade	<u>Science 9</u> 0.5 Credit *REQUIRED COURSE	<u>Earth & Space</u> 0.5 Credit *ELECTIVE <i>Placement to upperclassmen first</i>	<u>Biology</u> 1 Credit *APPROVAL ONLY <i>Completion of Science 9</i>
10 th Grade	<u>Biology</u> 1 Credit *REQUIRED COURSE	<u>Earth & Space</u> 0.5 Credit *ELECTIVE <i>Placement to upperclassmen first</i>	<u>Chemistry</u> 1 Credit *APPROVAL ONLY <i>Completion of Algebra Currently in Biology</i>
11 th Grade	<u>Chemistry</u> 1 Credit *HIGHLY SUGGESTED <i>Completion of Biology & Algebra</i>	OR Any Courses Below Not Already Completed	
12 th Grade	<u>Bioforensics</u> 0.5 Credit <i>Completion of Biology, Chemistry and Algebra.</i>	<u>Chemistry</u> 1 Credit <i>Completion of Biology, and Algebra.</i>	<u>Human Anatomy & Physiology</u> 1 Credit <i>Completion of Biology, and Chemistry.</i>
	<u>Physics Mechanics(M)</u> 0.5 Credit <i>Completion of Algebra</i>	<u>Physics Waves / Energy (W)</u> 0.5 Credit <i>Completion of Physics Mechanics</i>	<u>AP Biology</u> 1 Credit <i>Chemistry Highly Recommended Clas rank in top 30% *GPA of 2.75 or above</i>
		<u>Wildlife Ecology</u> 0.5 Credit *HIGHLY SUGGESTED <i>Completion of Biology & Algebra</i>	

SOCIAL STUDIES

CIVICS

Grade: 9

Credits: 1

Prerequisite: None

Civics is designed to instruct the basic ideas behind American Government and Democracy. Most of the course will be spent studying the U.S. Constitution and the functions of the three federal branches of government. Tribal Governments, State Governments, Local Governments, and School Districts will also be discussed. Other areas of instruction will be legal issues, basic economics, and advertising. Current events will be involved heavily in the instruction. Student evaluation consists of homework, chapter and semester exams, and classroom participation.

WORLD HISTORY

Grade: 10

Credits: 1

Prerequisite: None

This course will explore the rise of civilizations in the fertile crescent, the classical civilizations of Greece and Rome, the Middle Ages, the Renaissance and Reformation, the French Revolution and the World Wars. The emphasis of this course will focus on Western Civilization.

U.S. HISTORY

Grade: 11

Credits: 1

Prerequisite: None

The main objective of the course is to give all students an understanding of their country's political, social, economic, and cultural development. The study of the nation's past will give students an understanding of the democratic ideals, which have helped to form the American way of life. This material will cover American history from the Colonial Period to World War 2. Students are expected to know how to use critical thinking techniques to analyze the reason events occurred and how history is cyclical in measure. Student evaluation consists of homework, chapter and semester exams, and classroom participation.

AP UNITED STATES HISTORY

Grade: 11, 12

Credits: 1 WBHS, AP Credit varies by College, Laude Points: 2



This course will model a typical freshman college U.S. History course and is designed to prepare students to take the AP United States History Exam given in May each year. Units will trace U.S. History from the colonial period to the present. Students will gain a greater insight into the growth and development of our nation. Strategies used to teach this course include lecture, readings as primary and resources, and group and team critical thinking activities. Students will be evaluated by traditional, objective, multiple-choice questions and numerous short essay responses. This is a writing class! Conceptual and analytical reasoning skills are necessary for success. ***Juniors who score a 3 or better on the AP U.S. History Exam are not required to take Senior United States History.***

****All students have the option of completing the AP exam at the end of the course. Students are required to pay the exam fee (those who receive Free/Reduced Lunch may be able to take the test at no cost to them).****

SR. U.S. HISTORY

Grade: 12

Credits: ½

Prerequisite: None (Students who score 3 or better on the AP U.S. History Exam are not required to take this course)

This American History course will cover material in depth from the beginnings of the Cold War shortly after World War II to the present. Various topics will include the Cold War, the Civil Rights movement, The Vietnam War, and others. Student evaluation consists of homework, exams, projects and class participation.

Social Studies Electives

PSYCHOLOGY

Grade: 11, 12

Credits: ½

Prerequisite: None

This course enables students to gain knowledge of such topics as perception, motivation, emotion, memory and thought, the brain and behavior, personality, abnormal behavior, experimentation, and social influences on behavior. A psychology course can help students better understand themselves and others. This course should be considered by any student who plans on any type of post high school training. Student Evaluation: Unit tests and classwork.

Major Goals:

- Understand the definition of psychology, a brief history of psychological thought, and how psychologists study behavior.
- Understand human development from infancy through old age, heredity, and environmental influences.
- Understand the biological influences on behavior.
- Understand major personality theories, methods of measuring personality, and means of measuring personality, and means of measuring intellectual ability.
- Understand the principles of learning, remembering, forgetting and thinking.
- Understand the relationship between sensation and perception, as well as motivation and emotions.
- Understand how social groups and organizations can influence individual behavior.

AP UNITED STATES GOVERNMENT AND POLITICS

Grade: 10, 11, 12

Credits: 1 WBHS, AP Credit varies by College, Laude Points: 2

Prerequisite: Civics, Grades in Good Standing

This course will model a typical freshman college American Government and Politics course and is designed to prepare students to take the AP United States Government and Politics Exam given in May each year. The course is an intensive study of the formal and informal structures of government in the United States. Topics in this course will be the Foundations of American Government; Civil Liberties & Civil Rights; Political Parties and the Public; Campaigning and Elections; Institutions of the National Government: Congress, Presidency, and Judiciary; and Public Policy. This course will involve extensive reading and the application of writing skills. It will be similar in format to the AP U.S. History course currently offered at the High School to Juniors.

****All students have the option of completing the AP exam at the end of the course. Students are required to pay the exam fee (those who receive Free/Reduced Lunch may be able to take the test at no cost to them).****



INTRODUCTION TO PSYCHOLOGY

Grade: 12

Credits: 1, Laude Points: 2

Prerequisite: Psychology ½ credit or teacher approval

3 FREE TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS.

Credit will be earned by meeting expectations set forth by NTC.

10-809-198 This introductory course in psychology is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.



INTRO TO FIRST NATIONS STUDIES: THE TRIBAL WORLD

Grade: 10, 11, 12

Credits: .5 WBHS, 3 UWGB undergraduate credits, Laude Points: 1

This introductory course to First Nations Studies presents the American Indian tribal cultural context through both information and class structure. A core value is personal sovereignty supported by respect, reciprocity, and relationship. More specifically, in this class we will explore the historical and cultural background and continued resilience of the Ho-chunk people of Wisconsin. Within that story, students research their own cultural identity and where they fit within the grand narrative of American history and the shared history of our region.



Introduction Video from Instructor Paul Rykken: <https://youtu.be/gyJ72IOXkss>

Link to UWGB Dual Enrollment Access Academy: <https://www.uwgb.edu/theacademy/>

Course cost is \$600 and will be paid by students to UW-GB. The instructor is Paul Rykken who formally taught at Black River Falls High School and has taught this virtual course through UW-GB in the past. This course will last 14 weeks, 1st trimester into 2nd Trimester with the remainder of 2nd trimester being a study hall.

Social Studies Flowchart

9th Grade

**Civics
(1 credit)**

10th Grade

**World History
(1 Credit)**

11th Grade

**U.S. History
(1 Credit)**

**A.P.U.S. History
(1 Credit)**

*3.0 GPA, CP English 10 , CP English 11

AP Test results determine credit

12th Grade

Sr. U.S. History (.5 Credits)
(students who score 3 or better on A.P. U.S. History Exam do not take class)

Electives

Psychology (.5 Credits)
* (Juniors and Seniors)

AP Govt & Politics (1 Credit)

* (Sophomores, Juniors and Seniors)
AP Test Results determine College Credit

First Nation Studies
*virtual through UWGB / 3 credits



**Introduction to Psychology
(1 Credit) Seniors**
(Dual credit through WTCS)
Prerequisite-Psychology or teacher approval



PHYSICAL EDUCATION

PHY ED 9

Grade: 9

Credits: ½

Prerequisite: None

Course Description: This course will expose freshmen students to a wide variety of activities that will promote lifetime fitness and recreational opportunities. This course will focus on the basic fundamentals, skill, rules, and etiquette necessary to be successful in each activity. Students will be introduced to the following activities: Strength and Conditioning Concepts (Intro to the Weight Room), Team and Individual activities. The units will be based on what trimester the course will be taken in.

TEAM SPORTS

Grade: 10, 11, 12

Credits: ½

Prerequisite: Completion of PE 9

Course Description: This Course is designed to offer a wide variety of activities that lead to lifetime fitness. This is designed to be a **competitive** yet recreational class. Basic skills and fundamentals will be addressed. The focus will be on rules, strategies, sportsmanship and teamwork. Students may be involved in the following activities: Volleyball, Soccer, Softball, Flag Football, Ultimate Frisbee, Speedball, Floor Hockey, Broomball, Badminton, Invasion Games and Yard games. Different units will be based on what trimester the course will be taken in.

INDIVIDUAL & LIFETIME LEISURE ACTIVITIES

Grade: 10, 11, 12

Credits: ½

Prerequisite: Completion of PE 9

Course Description: This course is designed to allow students to enjoy a variety of individual lifetime activities. The focus will be on recreation and general wellness. Students may be involved with the following activities; bowling, tennis, archery, badminton, table tennis, bocce ball, golf, pickle-ball, individual basketball shooting games, swimming games, bag toss/cornhole, soccer, volleyball, softball ultimate frisbee and disc golf. Monetary course fees may apply (bowling, golf etc.). The units will be based on what trimester the course will be taken in and the students interest.

STRENGTH & CONDITIONING

Grade: 9, 10, 11, 12

Credits: ½

Prerequisite: **PE 9**

Course Description: This course is designed to offer the students the opportunity to workout with a weight lifting program during the day instead of working out during practice or after school. The students will have a muscle test at the beginning of the trimester and a final test at the end identifying their concepts and knowledge of their workout program. Students will warm-up properly, lift four days a week, ab workout, and a cool down stretch daily. The students have an opportunity to develop their own weight lifting program intertwined with class expectations.

Students will participate in other activities on the off days which may or may not consist of games and activities.

AQUATICS

Grade 10, 11, 12

Credits: ½

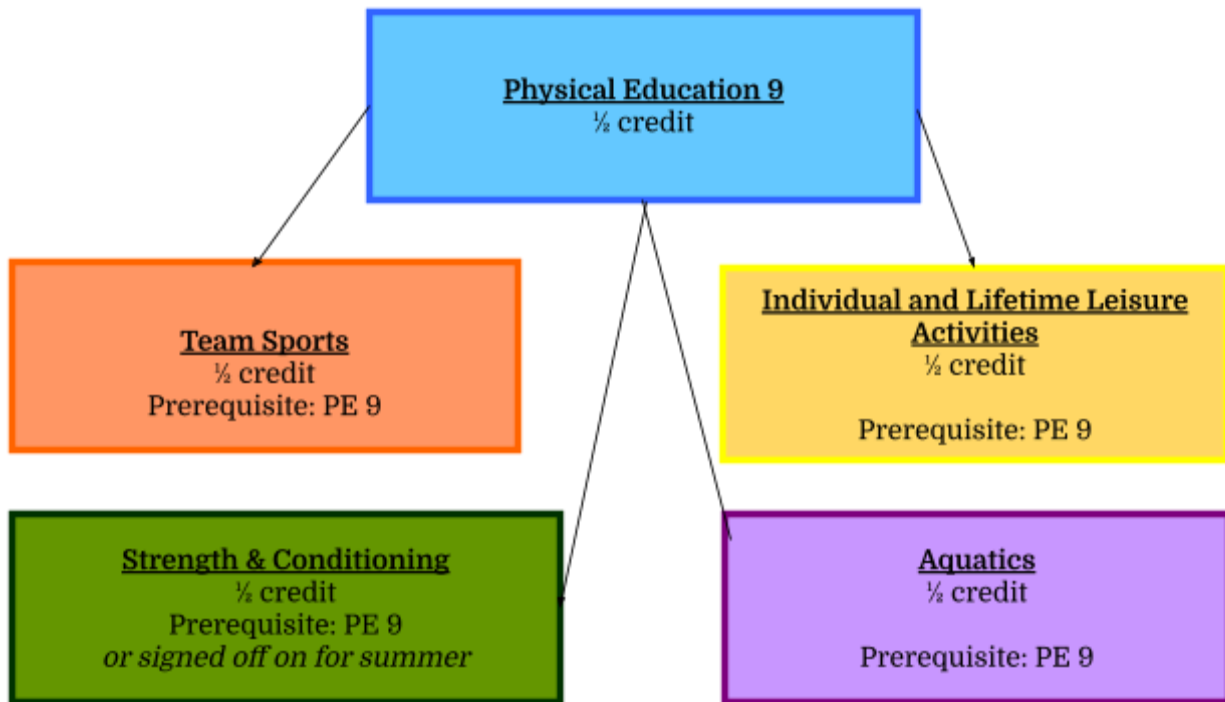
Prerequisite: PE 9

Runs every other year: will not be offered 2025-26

Need a minimum of 10 students to run the class

Course Description: Enjoy the water? This class will be done in the pool everyday. Learning and playing new and fun games and activities. The students will have an opportunity to design their own water activity, teach it to the class, and run the class as their own.

WITTENBERG-BIRNAMWOOD HIGH SCHOOL PHYSICAL EDUCATION FLOW CHART



HEALTH EDUCATION

Health ~ Human Growth & Development

Grade: 9

Credits: 1/2

Prerequisite: None

Course Description:

Ninth grade Health covers Human Growth & Development requirements set forth by DPI. The course will cover the wellness, nutrition, fitness, reproductive health, body image, life values, decision making, alcohol & drug use/abuse, suicide prevention, shaken baby syndrome, CPR/AED, sexuality & society, relationships, harassment & bullying, sexuality & media, sexual behavior, and sexual health.

There are 6-10 days parents are able to “opt-out” their child from the curriculum. Parents need to come to the high school office to look through the curriculum and sign the opt-out form. Other assignments will be given to the student for these 6-10 days.

- This class is to raise awareness of, and inspire a lifelong commitment to all facets of one's physical, mental, social, and emotional health
- Focus on informed decision-making, based on the student's values, and continued development of critical thinking skill, using accurate information
- Help each student set goals for improving and maximizing his/her health.

AGRICULTURAL EDUCATION

The agricultural education program prepares students to be problem solvers, leaders, entrepreneurs and agriculturalists through the use of its three-circle model. Classroom and laboratory instruction, leadership development (FFA), and experiential learning (SAE) all combine to offer students a well-rounded education that will prepare them for college **and** the workforce, as well as teach them how to be educated consumers. This program is for **anyone and everyone** who has an interest in what they eat, wear, where they live, and more.

AGRICULTURE I

Grade: 9, 10, 11, 12

Credit: ½

Prerequisite: None

Length: 1 Trimester

Students will be introduced to the diverse world of agriculture. Today, agriculture provides us many things like the food we eat, the clothes we wear, and the jobs that many of us have. Students will explore animals, plants, food technology, careers and leadership through hands-on activities and group settings. Students will work on a term long supervised agricultural experience which will carry over to future agriculture classes. Any student interested in taking agriculture classes will start with this course to set a foundation that other classes will build on. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

AGRICULTURE II: ANIMAL SCIENCE

Grade: 10, 11, 12

Credits: ½, Laude Points: 1

Prerequisite: “C” or higher in Agriculture I

Length: 1 Trimester

TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS. Credit will be earned by meeting expectations set forth by NTC.

Develop a deeper understanding for the world around you, as you discover and explore the vast expanse of plants and animals. Learn about the major food and fiber industries that support and feed the world. Topics covered include: livestock breeds, genetics, nutrition, health, management and selection of various large animals raised for food purposes. The second portion of the class will focus on the growth and maintenance of various crop sciences and landscaping principles. Gain real-life skills while earning a science equivalency credit through a variety of hands-on lessons. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

This course is dual credited with NTC’s Intro to Animal Science course.



AGRICULTURE III: AGRIBUSINESS AND MARKETING

Grade: 11, 12

Credits: 1/2

Prerequisite: Agriculture II

Length: 1 Trimester

Students will learn to effectively run an agricultural based business through an in-depth investigation of economics, marketing, and business management. Students first learn how and why people make the decisions that they do, followed by exploring how economics works at a national and international level. Students then move into marketing, investigating how to persuade others to buy their products and services. The class concludes with business management, covering not just how to run a business but also how to pay taxes and

invest in a secure financial future. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

SENIOR AGRICULTURAL LEGACY PROJECT

Grade: 12

Credits: ½

Prerequisite: “C” or better in Agriculture III

Length: 1 Trimester

Students will have the opportunity to develop an agricultural based project. This project may include, but is not limited to the following topics of agricultural literacy, a research experiment, an environmental initiative, or mechanical project. As a part of this class, students will be required to research, plan and execute their project. Students will learn the importance of plan development, documentation, and problem solving skills. This course will offer students the opportunity to create a project that will showcase their experience and their learning as they create their own Senior Agricultural Legacy Project. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

VETERINARY SCIENCE

Grade: 10, 11, 12

Credits: ½

Prerequisite: “C” or higher in Agriculture I

Length: 1 Trimester

Develop an understanding of acceptable veterinary medical terminology for common clinically recognizable diseases, operations, systems and procedures. Further, learners will distinguish common medical signs, abbreviations and colloquial vocabulary. Medical terms and language is covered as it relates to the animal’s body as a whole. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

GREENHOUSE MANAGEMENT

Grade: 10, 11, 12

Credit: ½

Prerequisite : “C” or higher in Agriculture I

Length: 1 Trimester



TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS. Credit will be earned by meeting expectations set forth by NTC.

Students will be exploring horticulture concepts such as plant reproduction, plant growth responses, and planting designs. As a part of this class, students will be setting up a greenhouse business then they will market their products to the community. Students will also learn site analysis, shrub, tree, and flower selection, drawing techniques for landscape design, flower and vegetable garden construction and proper placement of landscape components. Students will also analyze the relationship between plants and soils. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

This course is dual credited with NTC’s Container Gardening course.

AGRONOMY

Grade: 10, 11, 12

Credits: ½, 1 Laude Point

Prerequisite: “C” or higher in Agriculture I

Length: 1 Trimester

TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS. Credit will be earned by meeting expectations set forth by NTC.

Examine basic soil and plant relationships. Soil fertility is important in considering the role that the soil plays with regard to the availability of nutrients to plants. Learners will study nutrients such as nitrogen, phosphorus, potassium, sulfur, calcium and magnesium as it relates to soil condition. Will include unit on precision agriculture and show the impact of fertilizer and pesticides on crops and soils. This course will also take a deeper look into aquaculture and how we can effectively grow crops with fish and water. Learners will practice appropriate sampling, analyzing and interpretation of soil sample results. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

This course is dual credited with NTC's Intro to Agronomy course.

FORESTRY MANAGEMENT

Grade: 10,11,12

Credit: ½

Prerequisite: None

Length: 1 Trimester

Learning how to use G.P.S., orienteering techniques, tree measuring and harvesting. Proper techniques in planting trees and harvesting them are given. Students will also learn how to safely handle and use a chainsaw. This hands-on course will prepare you for a great career in the forestry industry. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

OUTDOOR RECREATION - DNR CERTIFICATION

Grade: 10, 11, 12

Credits: ½

Prerequisite: NONE

Length: 1 Trimester

This class will offer the students an opportunity to explore the history and benefits of outdoor recreation, orienteering, outdoor survival techniques, and operation and management of recreation areas. Students will also have the opportunity to receive DNR Certification in Snowmobile Safety, Boaters Safety, and ATV Safety. Students will learn about the opportunity to get involved in their career and leadership development activities offered through FFA and their SAE.

*****THERE WILL BE A FEE FOR STUDENTS WHO WISH TO BECOME DNR CERTIFIED. 10 DOLLARS PER COURSE*****



What does it look like to be an ACTIVE FFA member?

To be considered an active FFA member, there are many things you can do.

First, we require all FFA members to have an active SAE project. This is something that is done outside of school time and focuses on an area of agriculture that the student finds interesting. We will work on the planning of an SAE in Introduction to Agriculture. This can be a long term project or the student can choose a new project each year.

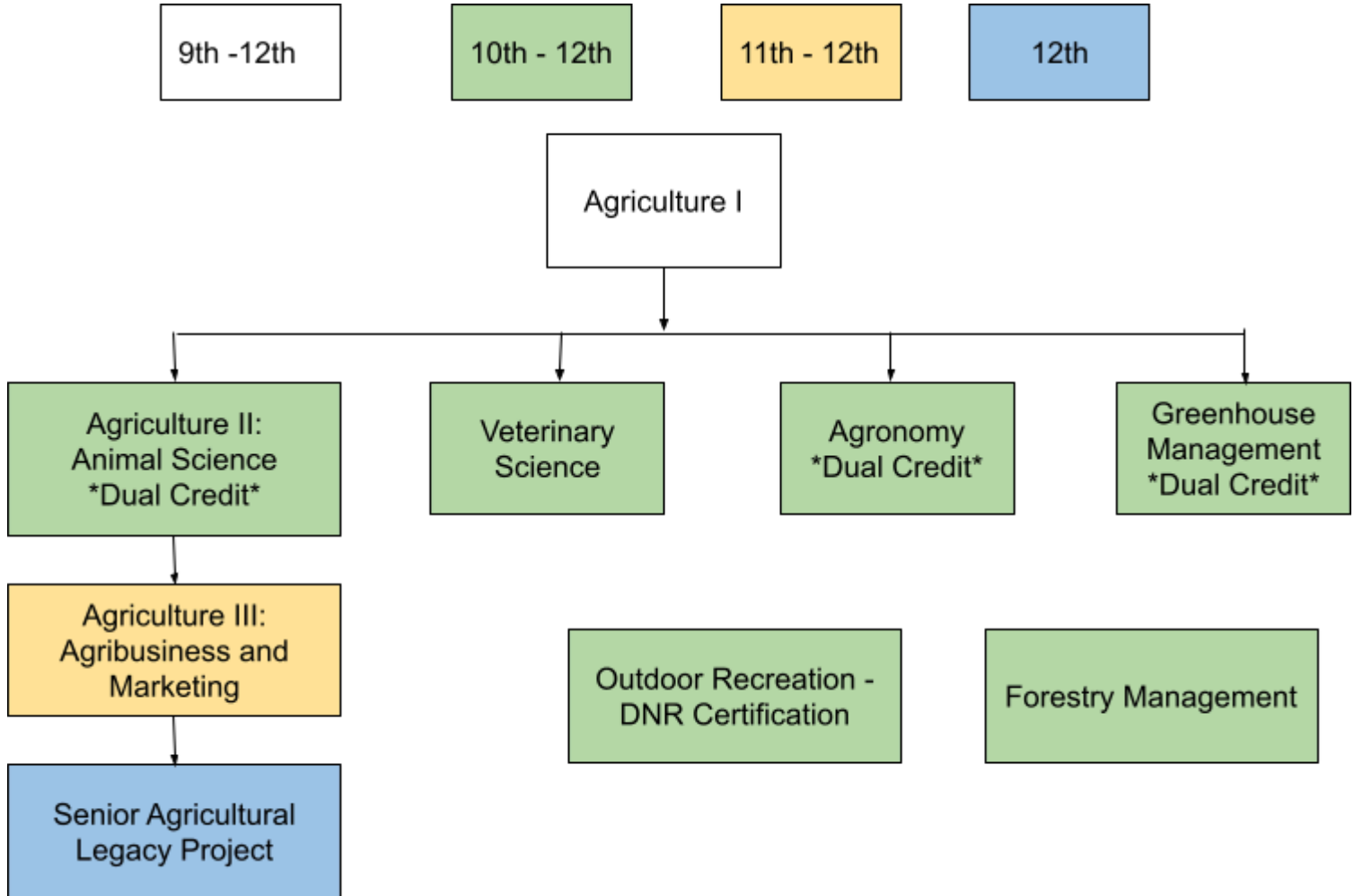
Next, we want FFA members to expand their knowledge. The best way to do this is to take Agriculture classes. Ideally, at minimum, one Agriculture class a year is preferred. We do understand that you may not be able to fit one into your schedule some years. Speak with the Ag Instructor and we can work out a plan to continue your Agriculture Education.

The FFA offers many opportunities to develop your leadership and personal skills. Active FFA members find attending the various workshops, speakers and conventions to be extremely useful in advancing their abilities to be successful. We ask that FFA members represent our chapter and community in a positive manner and these activities help showcase that.

We ask that all FFA members help in our fundraising processes. This allows us to send members to workshops, create activities both fun and educational, assist our community through service activities, and enhance the learning of all Agriculture students. Active members participate in all of our fundraisers, which help them work on their interpersonal communication and record keeping skills.

Finally, we ask that you help us complete our community service activities. Our goal is to help create a better community for everyone. We identify areas of need and develop plans of action. Active members take a lead role in these activities.

Agriculture Flow Chart



ART EDUCATION

ART FOUNDATIONS

Grade Level: 9-12

Credit: ½

Prerequisite: None

This course will teach students how to design a quality piece of art when learning about the 7 elements of art; Line, Value, Texture, Shape, Form, Space, and Color. Each project is a new exciting exploration of different mediums such as; drawing, painting, printmaking, ceramics and graphic arts. After completing this course all other art courses, including drawing and painting, ceramics, sculpture, and jewelry are available to take!

DRAWING AND PAINTING

Grade Level: 9-12

Credit: ½

Prerequisite: Art Foundations

This class is your opportunity to build on your previous knowledge of drawing and learn more of who you are as an artist. You will explore and strengthen your drawing and painting skills using a variety of tools and materials, such as drawing pencils, colored pencils, charcoal, ink, watercolor and acrylic paints. Look forward to completing works of art to display in your home.

CERAMICS AND SCULPTURE

Grade Level: 9-12

Credit: ½

Prerequisite: Art Foundations

This class is your opportunity to build on your previous knowledge of ceramics and sculpture. You will explore and strengthen your individual artistic style, while learning a variety of skills and processes unique to clay, plaster and other three-dimensional artwork. The pieces you build in class can both be used as functional pieces to use and as an additional decor in your home.

JEWELRY AND GLASSWORK

Grade Level: 9-12

Credit: ½

Prerequisite: Art Foundations

If you have an eye for design that ties into the latest trend in fashion this is the course for you! We will be experimenting with different materials and jewelry designs to encourage the unique artistic style of each student. Creative use of the Elements and Principles of design will be a main emphasis in understanding and producing strong designs.

TRADITIONAL PHOTOGRAPHY

Grade Level: 9-12

Credit: ½

Prerequisite: None

If you have a love for taking pictures then this is the course for you. Students will be investing most of their time in the darkroom developing their pictures after they have learned the functions and proper handling of a 35 mm camera. The Darkroom has been used since the beginning of photography in the 19th century. It is a light sensitive room, where film is processed in chemicals, enlarged and printed onto paper, and one of a kind, black and white photographs come to life. This course allows for creativity and freedom of choice in the subject matter of the photo. Students will be able to photograph the subject matter that most interests them while learning the 10 essential tips photographers use to capture their subjects.

INTRO TO GRAPHIC DESIGN

Grade: 10-12

Credit: 1/2 , 1 Laude point

Prerequisite: None

Intro to design Introduces the concepts and techniques involved in graphic design software programs including Photoshop and Illustrator. Students explore the principles of design to create layouts that are organized to attract the intended audience. This course is excellent for those who enjoy working with computers and are possibly considering a career in graphic design or illustration!



INDEPENDENT ART

Grade Level: 11-12

Credit: ½, Laude Points: 1 per trimester

Prerequisites: 5 trimesters of art. Students must have the approval of the art teacher and have shown the ability to be self motivated, be able to work independently, and use time management to meet project deadlines.

This is for the self directed student who wishes to continue in their preferred area of art. Students will be self motivated in creating advanced, independent projects that build on past knowledge and skills. Creative use of the Elements and Principles of design will be a main emphasis in understanding and producing strong works of art. Students will focus on expressing their unique ideas and styles.

YEARBOOK

Grades: 9-12

Credits: 1

Full year class

Prerequisite: None

Class size limit: 15 students

This course does not count towards the six required credits needed to take Independent Art.

Course Description:

Students will work in a team environment that will require strong communication skills when deciding together on theme, color scheme, and design of the 2020-2021 yearbook. This class is one of product deadlines; thus, students need to possess the motivation necessary to complete pages in a timely manner and stay on task. If you feel comfortable taking pictures in school events and attending meets or games after school, this is the class for you! Taking pictures is an expectation so that each moment throughout the year is captured. Pages and jobs for yearbook will be equally divided between students. Grades will be based on the quality of work completed and

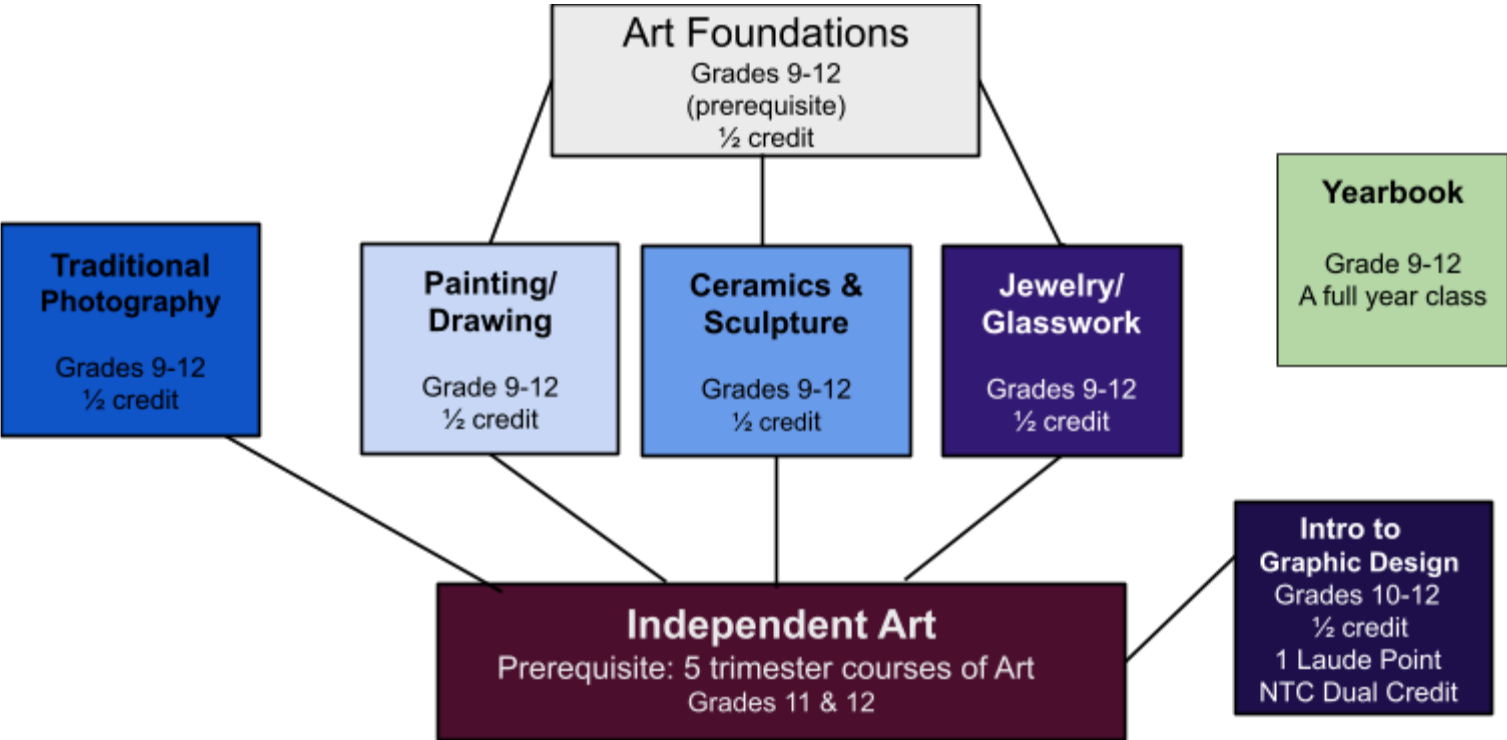
how well students followed the theme and/or expectations set for their pages. If this class seems fitting to you please pick up a yearbook permission slip, read through the expectations, sign and hand in to Mrs Gruber.

PRINCIPLES OF LEADERSHIP

Grade: 10, 11, 12
Credits: ½
Prerequisites: NONE

Course Description: Whether you have plans for college, military, or work right after high school, this class covers practical skills you will use in any environment. Students will have the opportunity to develop their leadership skills that will help them be academically, personally, and professionally successful. This course will also cover career interests, the job search, applying for a job, writing a resume, the interviewing process, and workplace relationships. We will take a look at how image and soft skills affect your marketability when trying to get hired.

Art Flow Chart



BUSINESS EDUCATION

Earn up to 17 Business credits in high school! Prepare for the **Microsoft Office industry certification** tests. Earn a **QuickBooks technical diploma** awarded by NTC.

All college credits are free. Credit will be earned by meeting expectations set forth by NTC. In the Business Department, 10th, 11th, and 12th graders are eligible to start earning credit. Credits may be transferable to other post-secondary institutions.

BUSINESS 101

Grade Level: 9, 10, 11, 12

Credit: ½

Prerequisite: None

Business is a part of everyone's daily life as employees, consumers and owners. This course offers a unique blend of online, traditional lecture, and project based learning. Students work through the steps of starting a business by coming up with a business idea and by learning how to write a business plan. Emphasis is placed on careers related to business, basic business ideas, management, finance, and marketing with a heavy emphasis on entrepreneurship. *This course is geared towards Freshmen and Sophomores and is a prerequisite for all other business classes except Microsoft Office and Personal Finance.*

ACCOUNTING & FINANCE 101

Grade Level: 9, 10, 11, 12

Credit: ½

Prerequisite: Business 101

Accounting, finance and business lead to *so many* great career opportunities! Spend a trimester learning the basics of accounting and finance in a FUN way. We will use games, stories and case studies to learn basic accounting and finance concepts. *This class would be great for students thinking about starting their own business and want to become familiar with accounting concepts OR for those pursuing business in college because this class is a prerequisite for the Accounting 1 dual credit class.*

ACCOUNTING 1

Grade Level: 10, 11, 12

Credit: 1 high school, 4 NTC

Laude Points: 2

Prerequisite: Business 101 and Accounting & Finance 101

10101111: Introduces accounting concepts and financial statements for sole proprietorships. Students analyze and record routine transactions, adjusting entries, and closing entries. Students prepare the Income Statement, Statement of Owner's Equity, and the Balance Sheet from the financial records they create for service and merchandising businesses. It also covers accounting for sales, inventory, cash, and receivables.



ACCOUNTING 2

Grade Level: 11, 12

Credit: 1/2 high school, 4 NTC

Laude Points: 1

Prerequisite: Business 101, Accounting & Finance 101, Accounting 1

10101113: Introduces students to fixed and intangible assets, current and payroll liabilities, partnerships, corporations, bonds, statement of cash flows, and financial statement analysis. Demonstrate achievement by completing various projects.



QUICKBOOKS

Grade Level: 10, 11, 12

Credit: 1/2 high school, 3 NTC

Laude Points: 1

Prerequisite: Business 101, Accounting & Finance 101, One trimester of Accounting 1

10101180 & 10101181: Students will be introduced to automated accounting concepts by setting up and managing QuickBooks company files. With the completion of QuickBooks and Accounting 1, students earn NTC's **QuickBooks Specialist Technical Diploma**.



MICROSOFT OFFICE

Grade Level: 10, 11, 12

Credit: ½ high school, 3 NTC

Laude Points: 1

Prerequisite: None

10103240: Introduces students to Microsoft Office applications (Word, Excel, and PowerPoint) through hands-on learning activities. Students develop foundational skills by applying concepts explored to create relevant real-world examples. This class prepares the student for the nationally recognized **MOS Associate certification**.



INTRODUCTION TO BUSINESS

Grade Level: 10, 11, 12

Credit: ½ high school, 3 NTC

Laude Points: 1

Prerequisite: Business 101

10102124: Introduces students to the evolution of business and entrepreneurship. Students analyze global, ethical and legal environments of business, explore the human side of business and examine the functional approach to information technology, marketing, human resource management, operations management and finance. **This course is intended for the highly motivated student who can work independently using NTC's classroom management system in Canvas.**



PERSONAL FINANCE

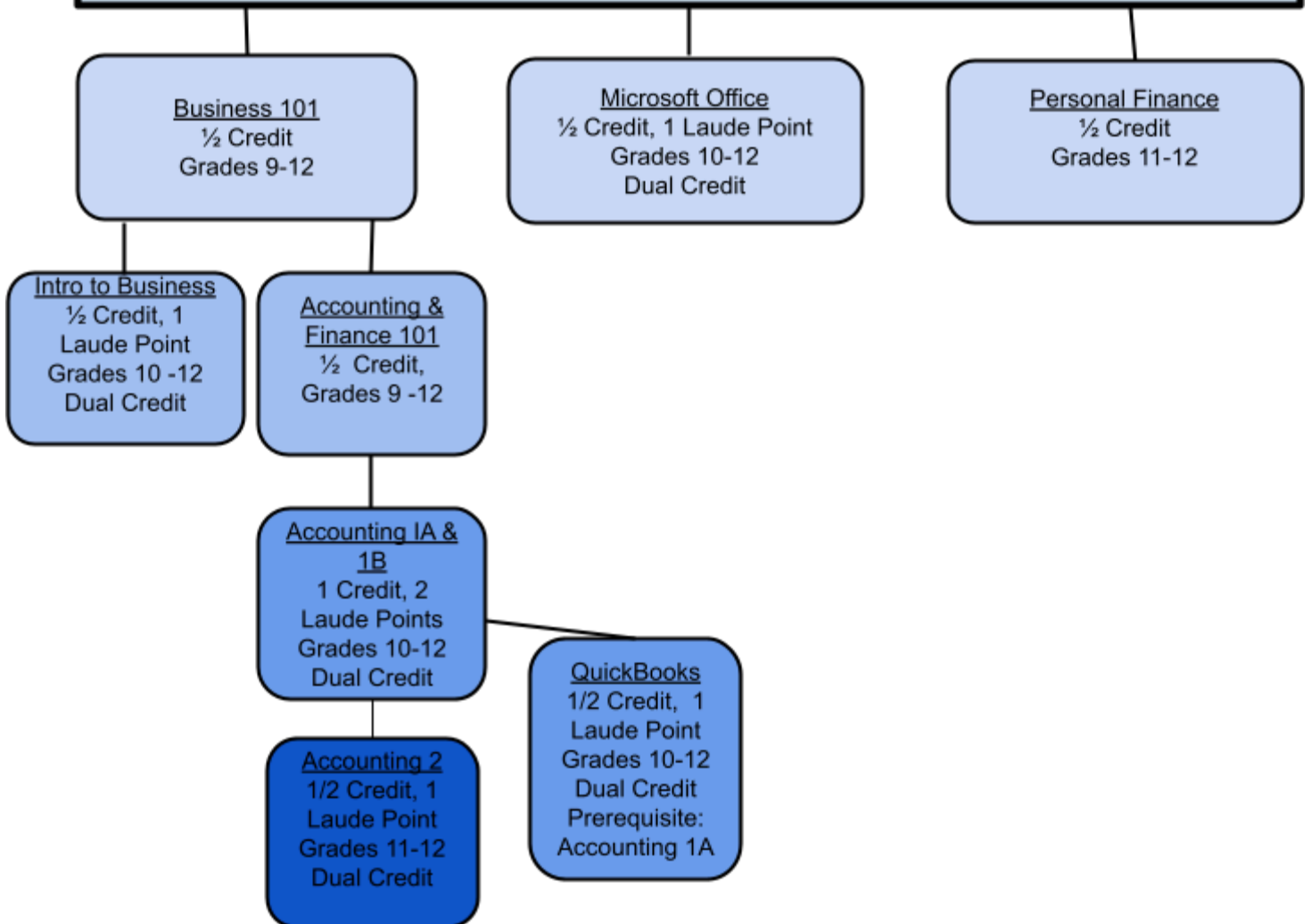
Grade Level: 11, 12

Credit: ½ - Graduation Requirement

Prerequisite: None

How will you manage your money to avoid debt and accumulate wealth? What does it mean to "bounce a check?" What should you do if you are involved in a fender bender? When is it okay to borrow money? Learn about financial responsibility. Topics to be covered are financial planning, budgeting, relating careers to income, banking, managing a checking account, investing, income taxes, insurance and the decisions of using credit. Students use a variety of problem solving skills, math skills and strategies in real-world contexts.

Business Education



INFORMATION TECHNOLOGY

Earn 3 I.T. credits in high school! Prepare for the **HTML/CSS industry certification** test.

All college credits are free. Credit will be earned by meeting expectations set forth by NTC. In the I.T. department, 10th, 11th, and 12th graders are eligible to start earning credit. Credits may be transferable to other post-secondary institutions.

COMPUTER SCIENCE DISCOVERIES

Grade Level: 9, 10, 11, 12

Credit: ½

Prerequisite: None

Computer Science Discoveries is an introductory computer science course that empowers students to code games and websites. Students engage with computer science as a way that allows for creativity, communication, problem solving and fun. Topics covered include problem solving, web development, animations and games.

WEB DESIGN

Grade Level: 10, 11, 12

Credit: ½ high school, 3 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries

NTC Course #: 10152551, 10152552, 10152553



Students build on knowledge of Hypertext Markup Language (HTML) and Cascading Style Sheet (CSS) coding techniques learned in Computer Science Discoveries along with the development of text content to communicate clearly, concisely and effectively on the web. Learners will create/modify web pages using HTML tags and style the web pages with CSS. Additionally, learners will create and edit text content. For the final course project, learners will begin a personal website portfolio. Additional topics include: copyright considerations, text editors, and browser tools. This course prepares students for the **HTML/CSS industry certification**.

Information Technology

Computer Science Discoveries

½ Credit
Grades 9-12

Web Design

½ Credit, 1 Laude Point
Grades 10-12
Dual Credit

DRIVERS EDUCATION

Classroom Portion

Grading: Pass/Fail

Offered during Summer School ONLY

Prerequisite: Meet birthday requirements. Students must be 15 years of age by November 1st of that calendar year to take the summer class.

Driver Ed. is a minimum of 30 hours of classroom instruction designed to acquaint the beginning driver with rules, common courtesy, defensive driving information, and alcohol and drug use issues that relate to driving. Students can only miss **2** days during the summer school course. Any more than 2 days will be removal from the class, and they will have the opportunity to take it the following year. The class will start with summer school, and will only be 3 weeks long (not 6 weeks like normal summer school).

**** There is NO classroom instruction for Drivers Education offered during the school year. ****

FAMILY AND CONSUMER SCIENCE

Careers: Culinary arts, food service, interior design, dietetics, food science, retail/ fashion merchandising, fashion design, seamstress, pediatrics, health care, sociology, health, social work, daycare, family therapy, and family and consumer sciences education.

The Family and Consumer Sciences provide students with skills, attitudes and behaviors necessary for promoting nutrition and wellness; strengthening the well-being of individuals and families; becoming responsible citizens and wage earners; managing resources and finances; balancing work and family life; preparing for successful life management, employment and career management; and critical and creative thinking skills to address problems.

FOODS I

Grade: 9, 10, 11, 12

Credit: ½

Prerequisite: None

Students will study foods and nutrition focusing on safety and sanitation, knife skills, basic knowledge of kitchen tools, accuracy in measurement and determine why food products turn out the way they do through introductory food science. Units will emphasize family relationships and consumer economics. Students will be evaluated on written assignments, lab work and unit assessments.

FOODS II

Grade: 10, 11, 12

Credit: ½

Prerequisite: Foods I

This course provides students the opportunity to explore a more in-depth approach to foods and food preparation; food preservation; foods unique to Wisconsin and major regions of the United States; and the opportunity to connect culinary roots of traditional foods to their ethnic backgrounds. Students will be evaluated on written assignments, lab work and unit assessments.

FOOD SCIENCE

Grade: 10, 11, 12

Credits: ½

Prerequisite: Foods I

This course is an overview of food science, the chemistry of foods, fermentation, and microorganisms.

Biotechnology, packaging, processing, regulation and labeling, world food needs and career exploration will also be investigated. This course is appropriate for students who are interested in food and agriscience careers.

NUTRITION

Grade: 10, 11, 12

Credits: ½

Prerequisite: Foods I

Focuses on the six major nutrients (carbohydrates, proteins, fats, minerals, vitamins and water) and how each is used by the body. The planning of well-balanced diets and nutritional analysis of diets are emphasized. Consider this course if your career options include dietetics, health sciences, pediatrics, physician, culinary arts, child development, personal trainer, sports trainer, nutrition services and numerous other careers!

CULTURAL CUISINES

Grade: 10, 11, 12

Credit: ½

Prerequisite: Foods I

Students will explore various foods and cultures from specific areas of the globe. Emphasis is placed on individual needs depending on lifestyle choices, resources, and health. Other units include vegetarianism and professional culinary techniques. Students will be introduced to food service career opportunities and quantity food production.

CLOTHING AND TEXTILES

Grade: 9, 10, 11, 12

Credit: ½

Prerequisite: None

Students will study clothing construction and an introduction to textiles. Students learn the basics of sewing and ironing and demonstrate skills through independent projects. Students will be evaluated on written assignments, projects and unit assessments. Students are responsible for the cost of projects made in class.

TODAY'S FASHIONS

Grade: 10, 11, 12

Credit: ½

Prerequisite: Clothing & Textiles

This course explores the history of fashion, fashion and retail merchandising, elements of fashion design, cosmetology and a unique study of repurposing old garments into useful new garments. Students will expand their knowledge of basic sewing skills and alterations. Projects will be made with fabric purchased by students. Students are responsible for the cost of projects made in class.

PARENT AND CHILD

Grade: 10, 11, 12

Credit: ½

Prerequisite: None

This is a comprehensive child development course that will be covering physical, mental, emotional and social development of children beginning with conception, through pregnancy, and until the age of 5. Students will participate in experiences that include wearing an Empathy Belly as well as the Real Care Babies. Students will be expected to complete daily assignments and independent projects.

INTERIOR DESIGN

Grade: 9, 10, 11, 12

Credit: ½

Prerequisite: None

This course provides students an opportunity to develop skills applying the elements and principles of interior design. Projects are integrated throughout the course to provide students with introductory skills necessary to become an interior designer. Students are responsible for the cost of projects made in class.

INDEPENDENT LIVING SKILLS

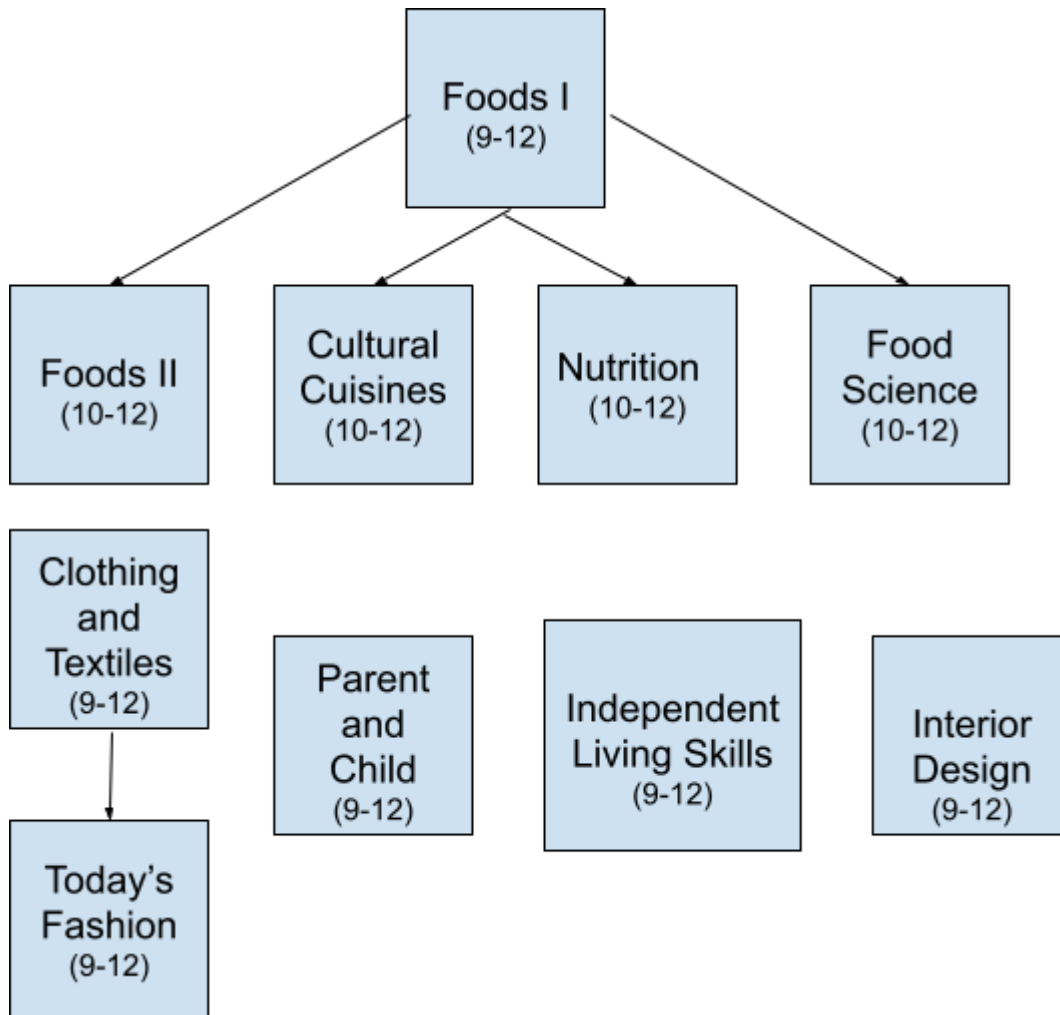
Grade: 9,10,11, 12

Credit: ½

Prerequisite: None

This course prepares students with the life skills they need to lead productive, independent lives as adults. A slower, paced class designed to accommodate the needs of a variety of students focusing on daily living skills, self-determination and interpersonal skills, and employment skills.

Family and Consumer Science Flowchart



FOREIGN LANGUAGE ~ SPANISH

SPANISH I

Grade: 9, 10, 11, 12

Credit: 1

Prerequisite: None

Recommendation: To have a B average or better in English

This course provides an introduction to the language and culture of the Spanish speaking world. The vocabulary and grammar are closely intertwined to allow the student to use the language in context for meaningful written and oral communication in the Interpretive, Interpersonal, and Presentational modes. Students will learn the foundational structures to allow them to give a basic description of something or someone, to say what they like or dislike, and to say what people do, with an emphasis on expressing themselves in the present tense. They will also learn how to make comparisons, give simple commands, learn a way to talk about what they are going to do, and say what they know how to do.

SPANISH II

Grade: 10, 11, 12

Credit: 1

Prerequisite: Completion of Spanish I

Recommendation: To have a C or higher in Spanish I.

This course continues to develop and expand upon the themes, culture, vocabulary, and grammar introduced in Spanish I. The student will experience new levels of meaningful communication through study of the preterite, imperfect, and progressive tenses. Students will learn how to give more complex commands, and will also be introduced to the Subjunctive mood of the verb as they refine the ability to give suggestions and talk about hypothetical situations.

SPANISH III

Grade: 10, 11, 12

Credit: 1, Laude Points: 2

Prerequisite: Completion of Spanish I and Spanish II.

Recommendation: To have a C or higher in Spanish II

This course begins by reviewing and engaging in a deeper study of the themes, vocabulary, and grammar concepts of Spanish I and Spanish II. Students will then refine their ability to talk about potential or unreal things by engaging in a deeper study of the distinction between the indicative and subjunctive moods, as well as the future and conditional tenses. The ability to talk about what happened in the past will be improved by the study of the perfect tenses. Various literary readings will broaden the student's knowledge of the culture of the Spanish-speaking world.

AP SPANISH LANGUAGE AND CULTURE/UWGB SPANISH 202

Grade: 11, 12

Credit: 1, 3 UWGB credits, Laude Points: 2

Credits are transferable to other technical and four-year schools

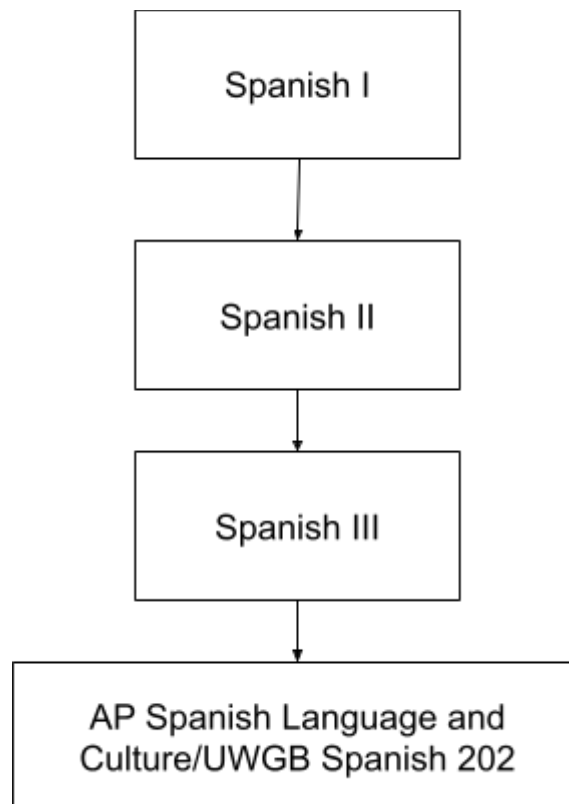
Prerequisite: Completion of Spanish I, Spanish II, and Spanish III

Recommendation: To have a C or higher in Spanish III



This course is both designed to prepare students to take the AP Spanish Language and Culture Exam given in May each year and articulated through UW-Green Bay's Spanish 202 course. This course will refine and enhance communicative proficiency. Natural interaction between the students will be emphasized by focusing on message clarity and conversational flow. The student will read and study selected literary readings. The student will also focus on the understanding and interpretation of audio selections. Students will review essential grammatical structures, as well as studying in much greater detail certain lexical and syntactical issues that can be problematic for learners and native speakers of Spanish alike, but always with a focus on how knowing the conventions will assist them in Interpretive, Interpersonal, and Presentational communication. There will be a focus on preparing for the specific kinds of authentic communication tasks that students are also asked to perform on the AP exam.
****ALL STUDENTS TAKING THIS COURSE WILL CHOOSE EITHER UW CREDIT OR AP EXAM CREDIT.***

Spanish Flow Chart



MUSIC EDUCATION

Music is a universal language of common understanding in the world. It plays an integral part in our daily lives. High quality music education enables lifelong participation in, and enjoyment of, music, as well as a foundation of excellence and professionalism for all walks of life.

BAND

Grade: 9, 10, 11, 12

Credit: .75 credit, Laude Points: 2 for 3rd year, 2 for 4th year

Prerequisite: Middle School Band or consent of the instructor.

Instrumental music begins in the intermediate grades and is continued through high school. High School Band offers many more opportunities to advance musicianship, learn a wide variety of musical styles, and participate in numerous performances. Band rehearses five periods each week and also includes private or small group lessons each week. Students are graded on lessons, assignments, rehearsals, and performances. Performances include Concerts, Pep Band, Marching Band, and Solo and Ensemble Contest. Field trips are planned according to opportunity. Each year that a student is in Band, progress is achieved toward expanding, developing and mastering the technique and skills on the chosen instrument(s) as well as mastery of more difficult musical selections.

JAZZ BAND

Grade: 9, 10, 11, 12

Credit: .25 for the year, students will not receive credit for participating part of the year

Prerequisite: Band

Jazz band meets twice per week for the full year. Students in jazz band will participate in Jazz Festival and Solo and Ensemble as well as performing at the spring concert. Students are graded on performances, rehearsals, participation, and written work.

CHOIR

Grade: 9, 10, 11, 12

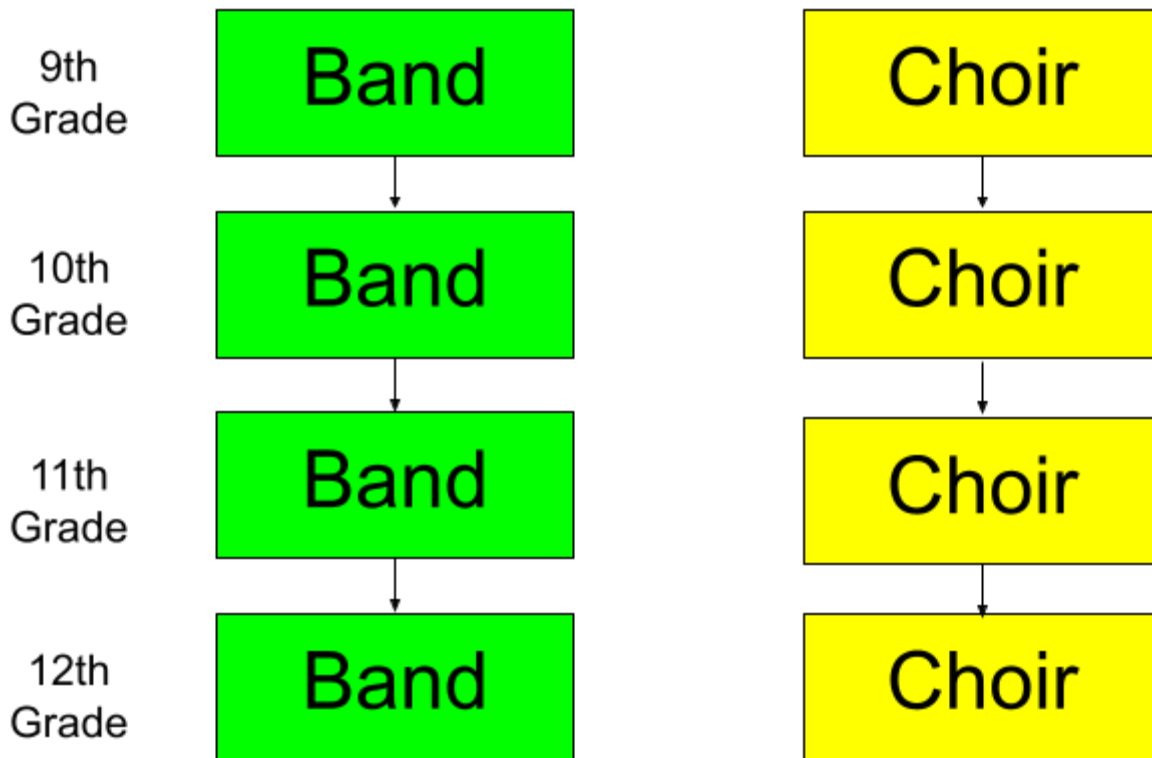
Credit: .75 credit, Laude Points: 2 for 3rd year, 2 for 4th year

Prerequisite: None

Concert Choir is a group of singers in grades 9-12. This choir rehearses five periods each week and students also receive individual vocal lessons. Concert Choir members will continue to learn healthy vocal technique and develop their musicianship. The group will perform high quality choral literature of various styles and historical periods. Performances include: Concerts, Large Group Contest, Solo and Ensemble Contest, and the WBHS/Community Variety Show.

WBHS Music

May take one or both courses



TECHNOLOGY EDUCATION

EXPLORING TECHNOLOGY

Grade Level: 9, 10, 11, 12

Credit: ½

Prerequisite: None

This course is broken up into two parts: Metals & Woods. A quarter will be spent in each area.

SAFETY GLASSES REQUIRED

Metals

This course is an introduction in the Manufacturing and Automotive Career Pathways. Topics that will be covered include: Safety, Basic Measurement up to Precision Measurement Practices, Introduction into Solidworks and Torchmate. Material Identification, Small Engines and an introduction to some STEM projects including 3D printing. Students will demonstrate the 7 steps of the Design/Engineer Process as they work through individual projects.

Woods

This course is the beginning studies in the Woodworking and Construction Career Pathways. Topics that will be covered are: Measurement, Tools, Safety, Drafting, Woodworking, Construction and Engineering Principles. The students will be given the opportunity to learn and use basic equipment to construct a small cutting board, and will be given opportunities to use the CNC and Laser Engraver.

ARCHITECTURAL DRAFTING

Grade Level: 10, 11, 12

Credit: ½ - Laude Points: 1

Prerequisites: None

This course will introduce the basics of architectural drafting and design as well as provide the students the opportunity to learn and use the architectural drafting software for Residential purposes. Residential house design and room planning will be discussed in detail, along with having the students developing drafting skills through a series of simple drawing projects. The students will complete a lake house project that will include structural drawing plans along with interior design aspects such as flooring, wall color, casework, etc...



Affordable. Employable. Transferable.

MECHANICAL DRAFTING

Grade Level: 10, 11, 12

Credit: ½ - Laude Points: 1

Prerequisites: None

NTC TRANSCRIPTED CREDITS CAN BE EARNED

Technical drawings are a design team's plan for manufacturing a product. These plans are drawn with a specific set of lines and symbols that a Mechanical Drafts-person uses to convey a plan. This language is the basis for all careers that follow plans for the manufacture or construction of products. In this class you will learn the basic skills necessary to read, interpret, and create such drawings. Basic sketching, orthographic projection and pictorial drawing techniques are studied followed by instruction in the use of Solidworks to produce mechanical/architectural drawings that meet industrial standards and specifications. Students will be learning the "Essentials" of solidworks.

This course is dual credited with NTC's Solidworks I course.



Affordable. Employable. Transferable.

SMALL ENGINES

Grade Level: 10, 11, 12

Credit: ½

Prerequisite: Successful completion of Exploring Technology

The course will cover components and operating principles of the small gas engine. Students will learn the basics of engine operation, and the science that makes a sealed combustion engine work. Students will learn the fundamentals of electricity, magnetism and electronics, Carburetion, Ignition Systems, and Cooling Systems. Students will get hands-on experience with precision measuring equipment, and the proper tools to work on a small engine. This class is a prerequisite for Recreation & Small Vehicle class. This is also a showcase for students to show their interest in small engines and become part of the growing WB Manufacturing Program.

SAFETY GLASSES REQUIRED

RECREATION & SMALL VEHICLE

Grade Level: 10, 11, 12

Credit: ½ - Laude Points: 1

Prerequisite: Successful completion of Small Engines

NTC TRANSCRIPTED CREDITS CAN BE EARNED

This course is the continuation of the small engines class. Students are introduced to real life preventative maintenance and troubleshooting techniques. Students will get more involved in fuel and ignition systems, engine disassembly and inspection, along with cylinder, crankshaft, and piston service. This class is designed to be mostly hands on, so students are allowed to bring in their own projects to work on. Students that are hired into WB Manufacturing program will use this time to work on customer projects. **SAFETY GLASSES REQUIRED**

This course is dual credited with NTC's Auto Service Safety, Basic Vehicle Maintenance, and Underhood Maintenance courses.



CONSTRUCTION METHODS

Grade Level: 10,11,12

Credit: ½

Prerequisites: Successful completion of Exploring Technology

This course will provide students the opportunity to explore the construction trades in a hands-on learning environment. Students develop a variety of technical skills associated with residential construction. After completing a basic building project, students move on to the fundamentals of constructing floor systems, walls and roofs. Areas of construction include but are not limited to: safety procedures, surveying, building layout, rough construction, finish carpentry, plumbing and electrical systems, applied mathematics and communications. Students will build a small structure from the ground up as well as assist on the small house project where needed.

BUILDING TRADES

Grade Level: 11,12

Credit: 1

Prerequisites: Successful completion of Construction Methods

This course is the culmination of the Construction Program. Along with studying building practices and building techniques, students will use their carpentry skills and knowledge to read architectural plans, build a set of stairs and work collaboratively in groups to build a small project from the ground up. Students will incorporate framing, roofing, siding, plumbing, electrical, flooring, trim and other finish work.

Upon successful completion of this course students will receive a Certificate from the Carpenters International Training Fund.

WOOD PROCESSES

Grade Level: 10, 11, 12

Credit: ½

Prerequisite: Successful completion of Exploring Technology

This course will provide students the opportunity to explore the materials and processes of woodworking in a hands-on learning environment. Students will learn the process of wood manufacturing, including wood species properties, harvesting and milling of logs into lumber, and basic woodworking tool processes. Students will work with a portable saw mill to turn logs into boards,, properly dry and record observations as the wood is dried in the solar kiln, and learn basic woodworking tool safety and uses while building a small project. Students will receive an industry recognized Sawblade Certification upon successful completion of this class.

FURNITURE MANUFACTURING 1

Grade Level: 10, 11, 12

Credit: ½

Prerequisites: Successful completion of Wood Processes

This course is the introduction of the Woods Furniture Program. Along with studying construction techniques used in the furniture and cabinetmaking industry, students will use their woodworking skills and knowledge to design and build a mission style side table. The students will be responsible to follow through with their project from the design and plan stage, to construction and finishing stages. Design consideration, materials selection, cabinet joinery, hardware and finishing are covered. Students are responsible for the cost of material and supplies involved.

Note: A \$5 fee will be applied to student projects for consumable items (screws, glue, dowels, biscuits, bits)

Students will learn proper and safe uses of handheld and stationary woodworking equipment. Students will learn a variety of woodworking joinery, be able to properly set up tooling to create required joints, and use the acquired skill set to create small projects.

FURNITURE MANUFACTURING 2

Grade Level: 11, 12

Credit ½

Prerequisites: Successful completion of Furniture Manufacturing 1

This course is a more in depth look into Furniture Manufacturing. Students will learn to read and understand blueprint drawings. The students will be given an opportunity to build a cabinet style side table. Students will learn the box and frame construction, dovetail drawer and 5 piece door. This class will go into more detail into cabinet design and styles, and better understand the joinery involved to accomplish the side table project. Students will also be introduced to different finishing techniques.

Students are responsible for the cost of material and supplies involved in their project.

FURNITURE MANUFACTURING 3

Grade Level: 11, 12

Credit: 1/2 - Laude Points: 1

Prerequisites: Furniture Manufacturing 2

NTC TRANSCRIPTED CREDITS CAN BE EARNED

This course is the culmination of the Woods Furniture Program. Along with studying construction techniques used in the furniture and cabinetmaking industry, students will use their woodworking skills and knowledge to design and build a piece of furniture of their choosing. The students will be responsible to follow through with their project from the design and plan stage, to construction and finishing stages. Design consideration, materials selection, cabinet joinery, hardware and finishing are covered. Students are responsible for the cost of material and supplies involved.

Note: A \$5 fee will be applied to student projects for consumable items (screws, glue, dowels, biscuits, bits)



WB WOOD PRODUCTS

Grade Level 11 12

Credit 1, Laude Points: 2

Prerequisite : Completion of Resume and Interview Process

WB Wood Products will be a student run business focusing on the design, sale, manufacturing and shipping of personalized wood products. Students will be required to fill out an application (submit resume) and complete an in person interview to be selected for this program. This is the introduction of this program, so students will be selected based on their ability to properly complete the tasks they are applying for. The tasks will be broken down into 3 categories. Business Management - this student will be responsible for website design and upkeep, creating and engaging on social media platforms, responsible for incoming orders, shipping and receiving. Project Design - this student will be responsible for the design and implementation of custom design orders in preparation for the CNC router or Laser Engraver, assist with shipping and receiving, tracking product production. Shop Manufacturer - this student will be responsible for wood preparation, inventory management, custom finishing, assist with shipping and receiving. Students will receive a hands-on experience running a business. In its first year, students will be hands-on in creating sample products, cost analysis, quality control, and start up decision making.

Limited seats available

INTRO TO MANUFACTURING

Grade Level: 10, 11, 12

Credit: ½, Laude Points: 1

Prerequisite: Successful completion of Exploring Technology

This is an introductory course for students who want to learn the basics of the metal shop. Safety is introduced as we learn new machines so it stays relevant to the learning. The class has 4 introductory projects to build. The metals shop is divided into 4 sections: Welding, Light Commercial Metal Fabrication, Residential Metal Fabrication, and Machine Tool. The students will rotate through the sections in groups, having equal time at each section to finish their project. **SAFETY GLASSES REQUIRED**

This course is dual credited with NTC's Intro to Welding course.



MANUFACTURING PROCESSES

Grade Level: 10,11, 12

Credit: ½, Laude Points: 1

Prerequisite: Successful completion of Intro to Manufacturing

This class is designed to give students who are interested in manufacturing a more in-depth look of the manufacturing field and the technology used. Students will be using Solidworks to design their projects, and will be introduced to the CNC portion of Machine Tool. Students who know what path they would like to go will receive a more in-depth project to work on to fine tune their skills. Students who are unsure of what aspect of the metal shop they enjoy will be given projects for each area of the shop that are more advanced than the Intro to MFG class. **SAFETY GLASSES REQUIRED**

This course is dual credited with NTC's Intro to Machine Shop course.



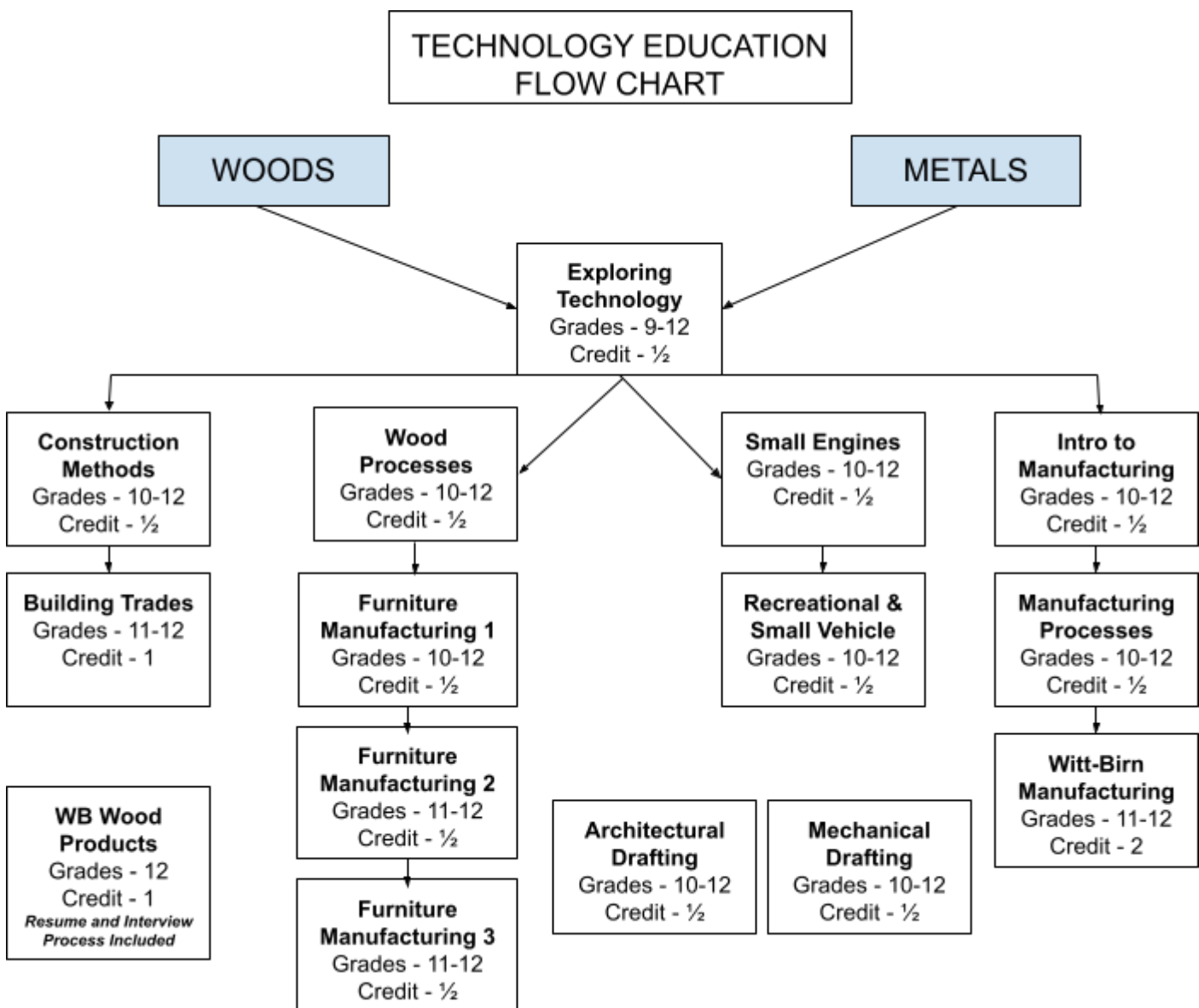
WITT-BIRN MANUFACTURING

Grade Level: 11,12

Credit: 1

Prerequisite: Successful completion of Manufacturing Processes & Instructor approval

Witt-Birn Manufacturing will be a student-run business in which students will produce or repair products for customers. Students will be exposed to every aspect of running a small business, including account management, shipping and receiving, design, quality control, production, bidding, and inventory. Students accepted in this class can be hired by the business, complete a job application, present a resume', and are interviewed. Students who are interested in Dual Credit for NTC will be trained to pass the standards set by NTC for the welding and Machine Tool programs. Students who are not hired into the program will be working on advanced projects that require them to have an understanding of all tools and equipment in the Metals shop. **SAFETY GLASSES REQUIRED**



TECHNICAL DIPLOMAS 2025-26

Certified Nursing Assistant (CNA)

Grade: 10, 11, 12

must be 16 by time of clinicals

Credits: .5 HS, 3 College, Laude Points: 2

Prerequisite: None



For anyone looking at going into any health field, being a CNA is a good place to start to get experience. Many employers look for, if not require, such experience when hiring various positions. Certified Nursing Assistants help patients/clients in nursing homes, hospitals, and other agencies with health care needs under the supervision of a Registered Nurse or a Licensed Practical Nurse. After successfully completing the course, students will be able to take their exams to receive certification. Between WBHS and NTC, the cost of the course including tuition, textbooks and workbooks, etc. will be covered. The student is responsible for the cost of such things as background check, scrubs/uniforms, shoes, TB testing, a watch, state testing, etc. Most of NTC's semesters include courses at their Wausau or Antigo location making it convenient for our students to travel.

NONDISCRIMINATION POLICY

All courses, including Career and Technical Education courses are available without discrimination based on the basis of race, color, religion, national origin, ancestry, creed, physical, mental, emotional or learning disability, pregnancy, marital status, parental status, sexual orientation, sex, or age in all federal and state protected classes.

The Wittenberg-Birnbaum School District does not discriminate on the basis of race, color, religion, national origin, ancestry, creed, physical, mental, emotional or learning disability, pregnancy, marital status, parental status, sexual orientation, sex, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following person is designated to handle inquiries regarding the non-discrimination policies: Megan Marcks, Director of Pupil Services, 400 West Grand Ave, Wittenberg, WI 54499.

715-253-2213 ext. 1108 or mmarcks@wittbirn.k12.wi.us. For further information on notice of non-discrimination, visit

<https://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> for the address and phone number of the office that serves your area, or call 1-800-421-3481.