

**Wittenberg-Birnamwood
High School
Scheduling Handbook
2021-22**



WITTENBERG-BIRNAMWOOD SCHOOL DISTRICT

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*“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

| | |
|-------|-----------------------------|
| 8-13 | English |
| 14-16 | Mathematics |
| 17-21 | Science |
| 22-25 | Social Studies |
| 26-29 | Physical Education & Health |

Elective Courses

| | |
|-------|-------------------------------------|
| 30-35 | Agriculture |
| 36-39 | Art |
| 40-46 | Business & Information Technologies |
| 47 | Driver Education |
| 48-50 | Family & Consumer Science |
| 51-52 | Foreign Language |
| 53-54 | Music |
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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

To graduate from WBHS, students must earn 25.0 credits.

| <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 |

Required Credits by Grade

Freshman

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

Sophomore

1.0 cr English
1.0 cr Math
1.0 cr Science
1.0 cr History - World History
0.5 cr Phy Ed 10
3.0 cr Elective

Juniors

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

Jr/Sr.

1.0 Science
1.0 Math
0.5 cr Phy Ed
0.5 Personal Finance
0.5 Speech Class*

Senior

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

**Between Junior and Senior year all students must fulfill at least a 0.5 credit of Comm 133 or Oral Expressions*

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, UW-Oshkosh, and other colleges through ERVING periodically 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!

The Erving Network

The ERVING Network is a distance learning opportunity for students in 10th-12th grade. To participate, students are responsible for committing to the course the spring ahead of it being offered. Families will be bound to the ERVING agreement and will not have the option to drop. Commitment to these courses is required. Prerequisites for courses are determined by the host school. Students who are in good academic standing and have shown the ability to work responsibly with minimal supervision will be offered the opportunity to enroll. If you are interested in participating in classes offered through the ERVING network, please see Mrs. Gruber for a copy of the course offerings.

Youth Apprenticeship

In partnership with Northcentral Technical College, WBHS is proud to offer students the Youth Apprenticeship (YA) program. This is a rigorous 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. High school juniors and seniors are eligible to participate. The program areas are: Agriculture, Food and Natural Resources; Architecture and Construction; Finance; Arts, A/V Technology, and Communication; Finance; Health; Hospitality, Lodging, and Tourism; Information Technology; Manufacturing; Marketing; Science, Technology, Engineering, and Math; and Transportation Distribution and Logistics. This is for students who want to get that 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 plans. 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

With successful completion of the Principles of Leadership class, 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 up to 2 class periods early, but not required, in order to gain paid work experience and earn high school credit at the same time! Students are responsible for finding their own employment. Students can earn a maximum of ½ credit per semester for junior and senior years (a total of 2 credits of WBL by the time of graduation). Please see Mrs. Nier in Student Services (on the balcony) for more information.

Prerequisite: Principles of Leadership *see page 39.*

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+ 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 A) better their chances of acceptance and B) 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.



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, lexile scores, MAP 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.

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 9/9CP

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. 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.

ENGLISH 11 - College Preparatory

Grade: 11

Credits: 1, Laude Points: 2

Prerequisites: English 10/10CP, teacher referral

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. ***This class is a prerequisite for AP English Lit.***

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. Students pay for this class at a rate of 50% the cost of tuition for three college credits at UWGB. Credits are transferable to other technical and four-year schools.**



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, playwriting, 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 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 AND POPULAR LITERATURE

Grades: 12

Credits: ½

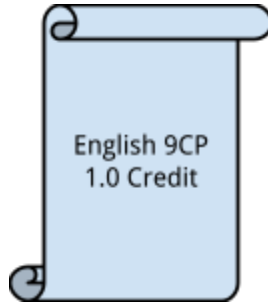
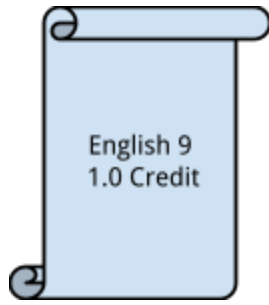
Prerequisites: None

Course Description:

This course examines the complex cultural work of adapting literature to film. Through critical analysis of narrative fiction - short stories, novels, plays, graphic novels - and the films they inspire, students will investigate the history, narrative, conventions, iconic elements, and cultural significance of literary adaptations to film. This course also introduces students to the basics of film analysis, cinematic formal elements, genre, and narrative structure and helps students develop the skills to recognize, analyze, describe and enjoy film as an art and entertainment form. The course work will include reading novels and short stories, writing analytical essays, and viewing films.

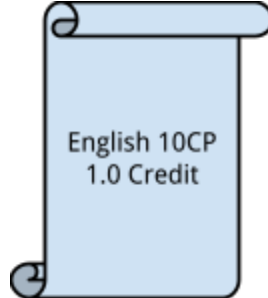
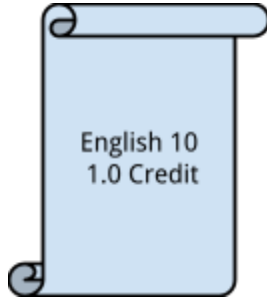
WBHS English Curriculum Continuum: Grades 9-12

9th

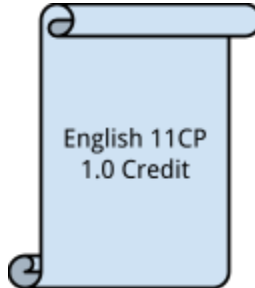
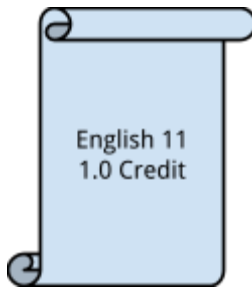


| English | |
|-----------|----------|
| Freshman | 1 credit |
| Sophomore | 1 credit |
| Junior | 1 credit |
| Senior | 1 credit |

10th



11th



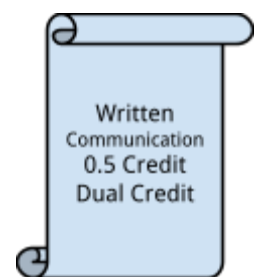
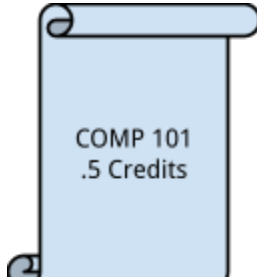
Juniors may take 1 credit of English 11 or 1 credit of 11CP, or two .5 credit courses chosen from the 11th or 12th grade course selections.

11th or 12th



.5 credits of Oral Expressions or COMM 133 are required for all students to fulfil graduation requirements.

12th



MATHEMATICS

PRE-ALGEBRA

Grade: 9

Credits: 1

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

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: NONE

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 items 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/GEOMETRY B

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: Advanced Algebra can be taken along with Geometry. The student **must have** a teacher recommendation and an Algebra grade of B+ or higher. 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 non-linear, and algebra problems from other subjects, such as chemistry and physics. Students have a choice of enrolling in Pre-Calculus or AP Statistics the following year.

MATH WITH BUSINESS APPS

Grade Level: 11, 12

Credit: ½ high school, 3 NTC

Laude Points: 1

Prerequisite: Successful completion of 2 full years of math

10-804-123 This course covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, and annuity, apply math concepts to the purchasing/buying process, and apply math concepts to the selling process and basic statistics with business and consumer applications.

This class counts as ½ math credit for WBHS graduation requirements. It may not be recognized as an upper level math class for admission purposes at a university.



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.



AP CALCULUS

Grade: 12

Credits: 1, Laude Points: 2

Prerequisite: Pre-Calculus and/or teacher recommendation

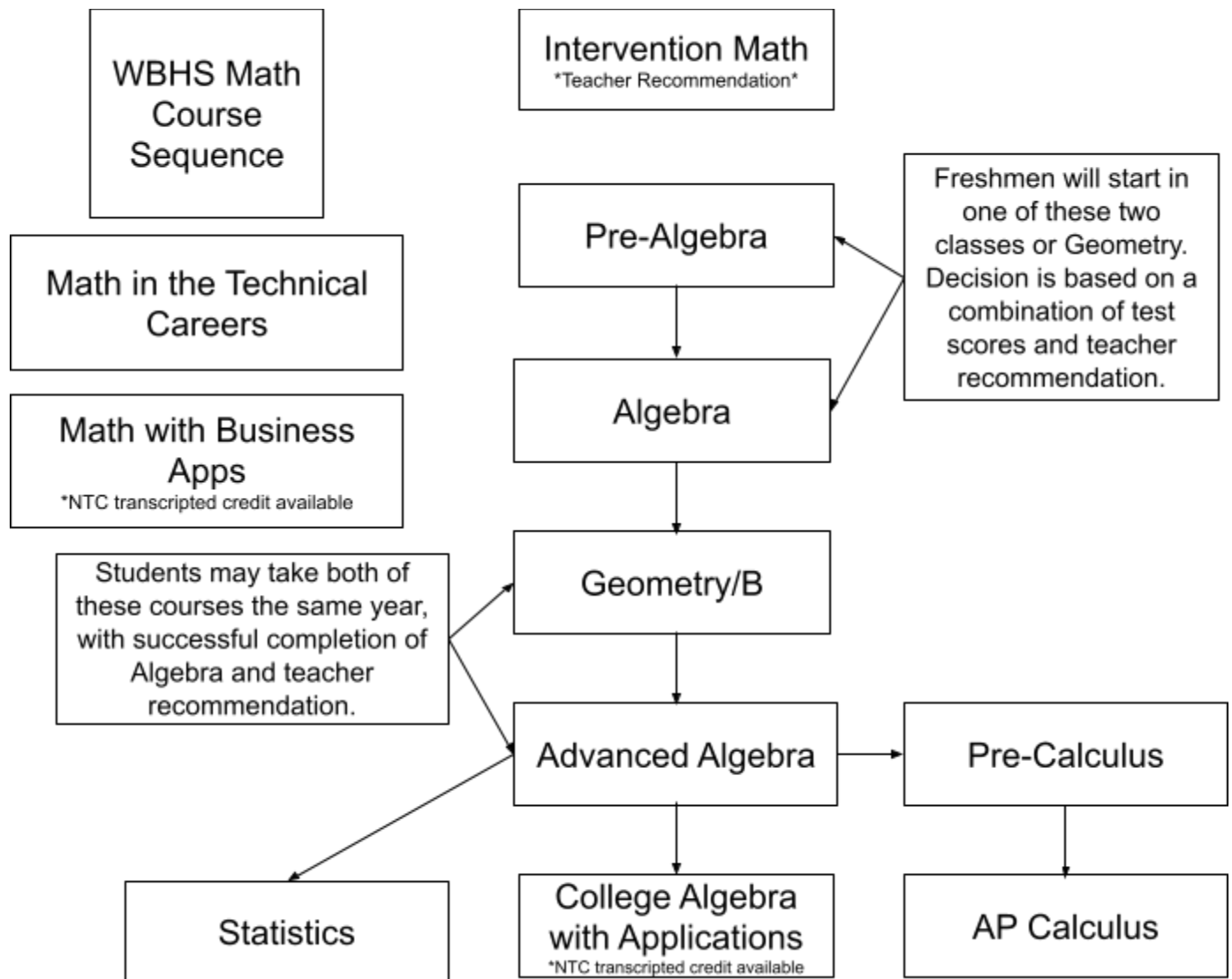
3 FREE TECHNICAL COLLEGE CREDITS CAN BE EARNED FOR JUNIORS & SENIORS.

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).





SCIENCE

INTRODUCTION TO CHEMISTRY

Grade: 9, 10 - **PLACEMENT**

Credits: 1/2

Prerequisite: **Placement by teachers**

Offered 2nd semester only.

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 gases, 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: 9 - **REQUIRED**

Credits: 1

Prerequisite: **Placement by teachers, Concurrently enrolled or completion of Algebra I**

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.

EARTH & SPACE SCIENCE

Grade: 9-12 **ELECTIVE**

Credits: ½

Placement to upper-classmen first.

Earth & Space Science is a physical science that studies the dynamic processes that shape our planet earth as well as investigates our place in our galaxy and our universe. The focus of this semester course will be how the space beyond planet Earth is explored, information collected and how the universe was formed. The Sun-Moon-Earth system, the solar system, stars and our universe are highlighted in this course as well. Get ready to put on your space suit and explore the world beyond.

CHEMISTRY

Grade: 10, 11, 12 -**REQUIRED**

Credits: 1

Prerequisite: **Successful completion of Biology and a C or higher in Algebra; must be in or have passed Geometry**

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.

ADVANCED CHEMISTRY

Grade: 11, 12 - ELECTIVE

Credits: 1 - WBHS, possible college credits, Laude Points: 2

Prerequisite: **Successful completion of Chemistry with a B or higher**

This AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For most students, the course enables them to undertake, as a freshman, second year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. This course is structured around the six big ideas articulated in the AP Chemistry curriculum framework provided by the College Board. A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. AP Chemistry is open to all students that have completed a year of chemistry who wish to take part in a rigorous and academically challenging course

UW OSHKOSH HUMAN BIOLOGY 105

Grade: 11, 12 - **ELECTIVE**

Credits: 1 - WBHS, 4 UWO credits, Laude Points: 2

Credits are transferable to other technical and four-year schools

Prerequisite: **Biology B or higher, Chemistry C or higher**

UWO: (These are set by the University)

- **Class rank in the top 25 percent**
- **GPA of 3.25 or above (on a 4.0 scale)**
- **ACT score of 24 or higher and at least one of the following:**
 - **class rank in the top 50 percent**
 - **GPA of 2.75 or above**



Looking to earn college credit in high school? This is a college prep course and /or designed to receive college credit in high school through the University of Wisconsin-Oshkosh. This course gives students the opportunity to earn 4 college credits. Current costs are \$100/credit, \$50/credit (*reduced price for those that qualify free & reduced lunch*). This class fulfills college requirements for a lab-science. Completion of this course fulfills a general education requirement and is a core course towards a major or minor in Biology.

This course provides the student with a broad overview of biology with respect to humans. It is designed to explore human biology as a process, evolution, energy transfer, continuity and change, the relationship of structure to function, regulation, interdependence in nature, and the unified understanding of human biology as it pertains to science, technology, and society. The expectations of this course may be greater than those of your previous science classes.

PHYSICS: Mechanics

Grade: 11, 12 - **ELECTIVE**

Credits: 0.5, Laude Points: 1

Prerequisite: **C or higher in Algebra and Geometry; ~~Passing grade in Chemistry~~**

Physics is the study of the basic laws of how the universe works. Students will perform strategies in lecture and during laboratory work to problem solve. The focus of this class will be on mechanics, including acceleration, forces and 2-D motion. Students interested in learning how objects in the world move and interact with each other should consider taking this course. Physics: Mechanics is a prerequisite for the other Physics courses offered. Physics is encouraged for students who are planning to study science or math in the future, and/or who want to get into more competitive colleges.

PHYSICS: Energy and Waves

Grade: 11, 12 - **ELECTIVE**

Credits: 0.5, Laude Points: 1

Prerequisite: **Physics Mechanics**

Placement to Seniors First

Physics is the study of the basic laws of how the universe works. Students will perform strategies in lecture and during laboratory work to problem solve. The focus of this class will be on energy and waves. This will explore kinetic and potential energy, simple machines, thermodynamics, sound waves and optics. Physics is encouraged for students who are planning to study science or math in the future, and/or who want to get into more competitive colleges.

PHYSICS: Electricity, Magnetism and Subatomic Physics

Grade: 11, 12 - **ELECTIVE**

Credits: 0.5, Laude Points: 1

Prerequisite: **Physics Mechanics**

Placement to Seniors First

Physics is the study of the basic laws of how the universe works. Students will perform strategies in lecture and during laboratory work to problem solve. The focus of this class will be on static electricity, electrical forces and circuitry, magnetism and magnetic fields. Students will also explore and learn about nuclear physics. Physics A is a prerequisite for the other Physics courses offered. Physics is encouraged for students who are planning to study science or math in the future, and/or who want to get into more competitive colleges.

HUMAN ANATOMY AND PHYSIOLOGY

Grade: 11, 12 - **ELECTIVE**

Credits: 1, Laude Points: 2

Prerequisite: **Biology Grade B or higher, Chemistry Grade C or higher, or Instructor Approval**

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

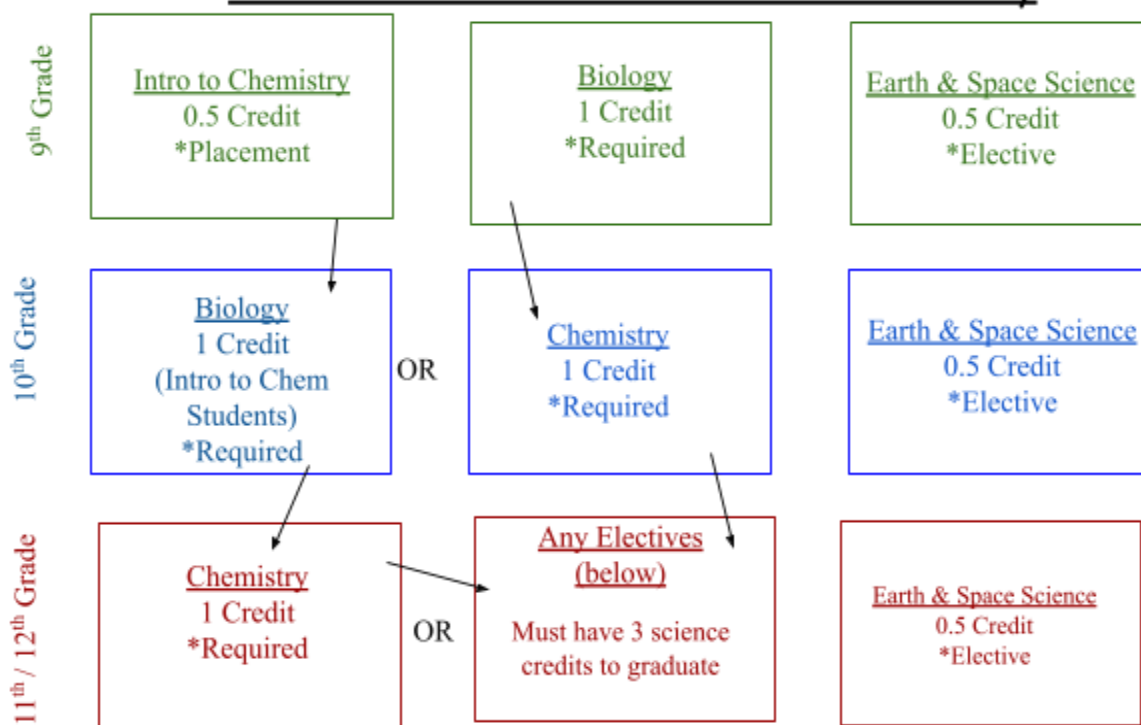
Grade: 11, 12 - **ELECTIVE**

Credits: ½

Prerequisite: **Passing Grades Biology, Chemistry and Algebra. Passing grade OR currently in Geometry. 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.

WBHS Science Curriculum Pathway



————— 11th / 12th Grade Electives: not required

| | | | | |
|--|---|---|--|--|
| <u>UWO Human Bio 105</u> 1 Credit *Biology grade B *Chemistry grade C *Instructor Approval *4 college credits | <u>Physics A, B or C</u> 0.5 Credit each *Algebra and Geometry grade C Must take Physics Mechanics first *Instructor Approval | <u>Human Anatomy & Physiology</u> 1 Credit *Chemistry grade C *Instructor Approval | <u>Bioforensics</u> 0.5 Credit *Passing grades Bio, Chem, and Algebra *Passed or passing Geom | <u>Advanced Chemistry</u> 1 Credit *B grade in Chemistry *Instructor Approval *Possible college credit |
|--|---|---|--|--|

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 / UWGB Hist 205/206

Grade: 11, 12

Credits: 1 WBHS, 6 UWGB, AP Credit varies by College, Laude Points: 2

Prerequisite: 3.0 GPA, CP 10, CP 11 or Enrolled in CP11.



This course will model a typical freshman college U.S. History course and is designed for students to receive dual college credit through UW-Green Bay's CCIHS program (US History 205 & 206), or 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. ~~It is strongly recommended that only students interested in taking the optional AP exam even consider enrolling. Students who pass the AP exam receive college credit. (For example: UW-SP gives six college credits for passing the AP exam.)~~ ***Juniors who score a 3 or better on the AP U.S. History Exam, or an "A" in the UWGB dual credit course 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).

Students who qualify for this course will receive an application in the spring of their sophomore year which the WBHS instructor of UWGB Hist 205/206 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. Students pay for this class at a rate of 50% the cost of tuition for SIX college credits at UWGB. Credits are transferable to other technical and four-year schools.

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 / UWGB POL SCI 101

Grade: 10, 11, 12

Credits: 1 WBHS, 3 UWGB, 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 for students to receive dual college credit through UW-Green Bay's CCIHS program (POL SCI 101), or prepare students to take the AP United States History 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).

Students who qualify for this course will receive an application in the spring of the year which the WBHS instructor of UWGB POL SCI 101 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. Students pay for this class at a rate of 50% the cost of tuition for THREE college credits at UWGB. Credits are transferable to other technical and four-year schools.

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 the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social and vocational settings.



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/UWGB Dual
Credit (1 Credit)**
*3.0 GPA, CP English 10 ,
CP English 11

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/UWGB
Dual Credit (1 Credit)**
* (Sophomores, Juniors and Seniors)

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



PHYSICAL EDUCATION

PHY ED I

Grade: 9 & 10

Credits: ½

Prerequisite: None

Course Description: This course will expose students to a wide variety of activities that will promote lifetime and recreational opportunities. The course will focus on skill, rules, and etiquette necessary to be successful in each activity. Different units will be based on what trimester the course will be taken in. This course can be taken numerous times during the freshmen and sophomore year.

PHY ED II

Grade: 11 & 12

Credits: ½

Prerequisite: None

Course Description: The course will expose students to a wide variety of activities that will promote lifetime and recreational opportunities. This course will focus on skill, rules, strategies, and etiquette necessary to be successful in each activity. This course can be taken numerous times during the junior and senior year.

STRENGTH & CONDITIONING

Grade: 9, 10, 11, 12

Credits: ½

Prerequisite: None

Course Description:

The 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. The students will first be pretested on information about the weight room and be fitness tested. Students will do agility drills, stretching drills, cardio and lift three to four times a week. Students will participate in other activities on the off days which may or may not consist of games and activities. Students will be tested at the end on their knowledge of the weight room, muscles and lifts, and the lifting techniques.

AQUATICS X3

Grade 10, 11, 12

Credits: ½

Prerequisite: 15 years of age

Course Description: The course will have the student in the water the majority of the time, with a few days of classroom work. The class will be broken down into three sections: 1. Lifeguard/CPR, 2. Swim Skills (being able to teach swimming), 3. Water Games. Students will go through the lifeguard/CPR/First Aid training and have an opportunity to be certified as a lifeguard. Students will improve their swimming skills in a variety of strokes along with learning lifeguarding skills for the water. They will learn a wide variety of games that can be played at different age levels. Students will have one project to complete throughout the trimester: design a game for a specific age group and teach it to the class.

WITTENBERG-BIRNAMWOOD HIGH SCHOOL PHYSICAL EDUCATION FLOW CHART

Physical Education I
½ credit

Physical Education II
½ credit

Strength & Conditioning
½ credit

Aquatics x3
½ credit

Prerequisite:
15 years old

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.



Affordable. Employable. Transferable.

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

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.

AGRONOMY (CROP AND SOIL SCIENCE)

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.

WILDLIFE MANAGEMENT

Grade: 10, 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 the art of taxidermy and airbrushing of fish, small animals and deer. 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 through FFA and their SAE.

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.

Criteria for the WB FFA Canada Fishing Trip

The following are the requirements of the Wittenberg-Biramwood FFA to be eligible for the annual Canada Fishing Trip.

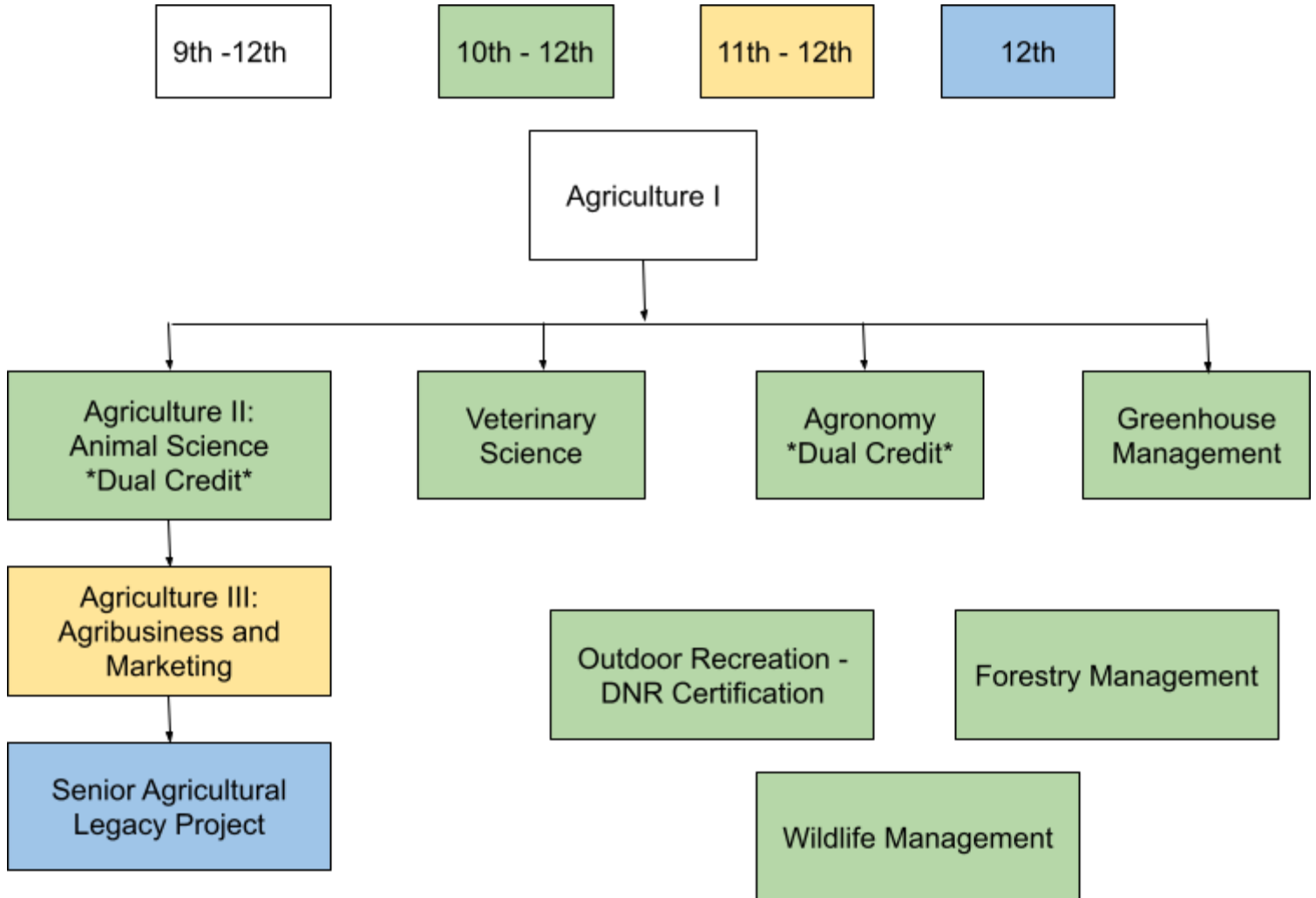
-Members must be **active** in the chapter's activities for four years. Please reference the "What does it look like to be an active FFA member" criteria.

-Members must fundraise the **total cost** of the trip, there are several fundraisers each year that members can participate in. From each fundraiser a percentage of the member's cash sales will be recorded and placed into their student account. Members are also asked to sell cheese curds at the Annual FFA Alumni Corn Roast.

-Members must pay a \$100 deposit during the spring of their Junior year.

-Members must have completed all requirements for and have graduated from the Wittenberg-Biramwood High School.

Agriculture Flow Chart



ART EDUCATION

ART FOUNDATIONS

Grade Level: 9-12

Credit: ½

Prerequisite: None

Get involved in an environment where your unique and personal artistic style becomes fused with a basic foundation of understanding how to create good art! This course will teach you 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.

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 framed works of art to be proud of displaying in your home.

CERAMICS AND SCULPTURES

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.

PRINTMAKING

Grade Level: 9-12

Credit: ½

Prerequisite: Art Foundations

This course is for those of you who love to work with your hands and learn a unique process that creates a very attractive vintage and faded look to your artwork. Explore a variety of printmaking processes when using materials such as linoleum, wood blocks, and plexiglass. Creative use of the Elements and Principles of design will be a main emphasis in understanding and producing strong compositions. Look forward to finished unique works of art you can be proud of displaying 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.

PHOTOGRAPHY

Grade Level: 9-12

Credit: ½

Prerequisite: Art Foundations

If you have a love for capturing great pictures then this is the course for you. Students will take several class walks and a field trip (weather permitting) to practice taking quality photographs using the 10 essential tips photographers use when capturing their subjects. Along with learning how to capture strong photos, students will gain a basic understanding of how to use photoshop as a tool to create quality pictures that include your personality and interests. Look forward to completing several framed works of art you can be proud of displaying in your home.

ADVANCED INDEPENDENT ART

Grade Level: 11-12

Credit: ½, Laude Points: 1 per semester

Prerequisites: 6 semesters of art. Students must have approval of art teacher and has 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 for 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

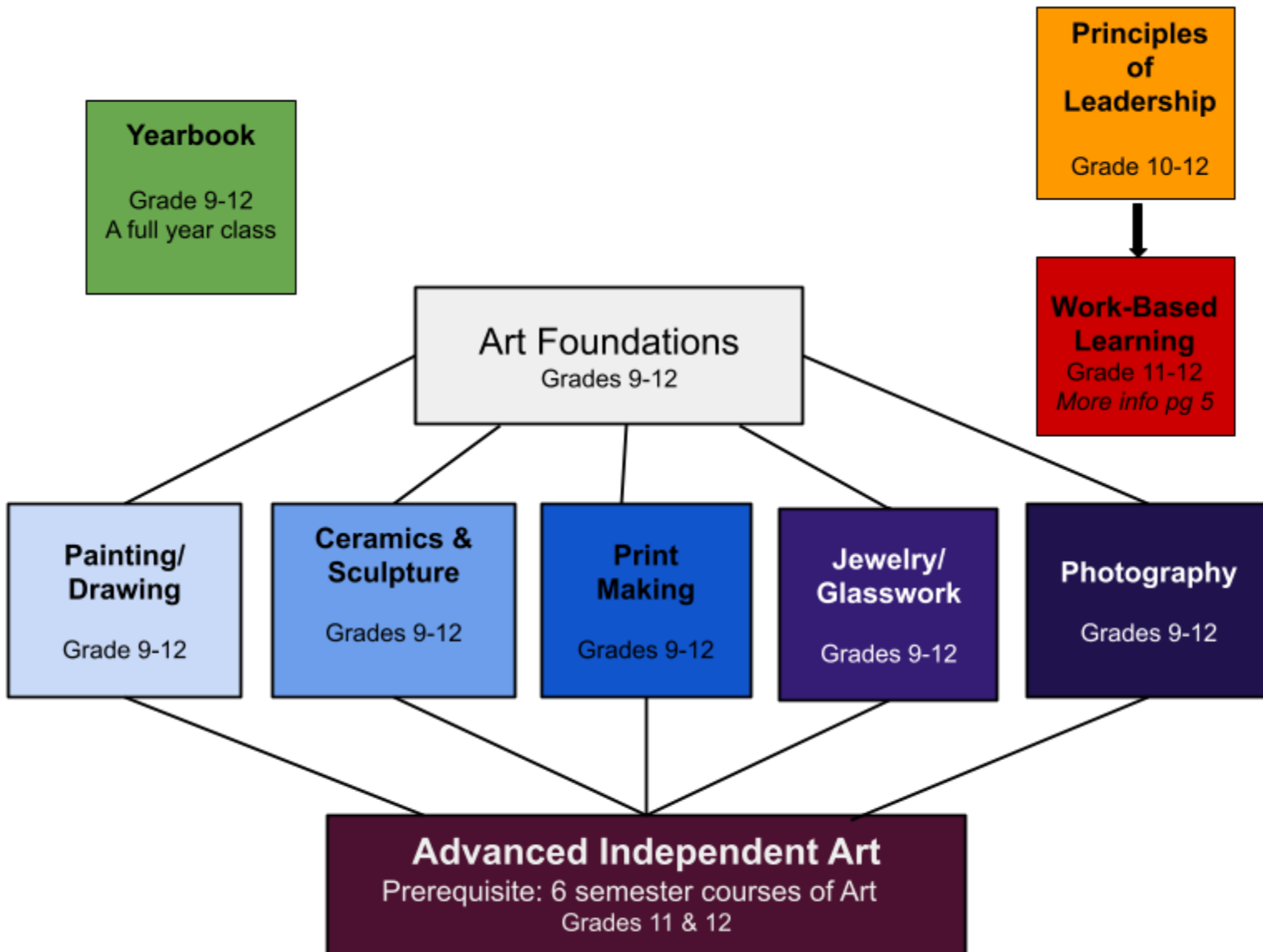
Grade: 10, 11, 12

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. This class is required in order to participate in the Work-Based Learning program. *For details, see Work-Based Learning on page 5.*

Art Flow Chart



BUSINESS EDUCATION

NEW!

Earn up to 14 Business credits in high school while preparing for two **industry certification** tests: QuickBooks and Microsoft Office!

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 Introduction to Business.*

ACCOUNTING 1

Grade Level: 10, 11, 12

Credit: 1 high school, 4 NTC

Laude Points: 2

Prerequisite: None

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 WITH QUICKBOOKS

Grade Level: 11, 12

Credit: 1 high school, 4 NTC

Laude Points: 2

Prerequisite: Accounting 1

10101113 Accounting 2: 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.

For the remainder of the year, students will be introduced to automated accounting concepts by setting up and managing QuickBooks company files. This portion of the course is independently paced with instructor guidance and prepares students for the **Quickbooks Certification**.



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 **MOS certification**.



INTRODUCTION TO BUSINESS

Grade Level: 10, 11, 12

Credit: ½ high school, 3 NTC

Laude Points: 1

Prerequisite: Business 101

10-102-124 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 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

Business 101
½ Credit
Grades 9-12
Prerequisite:
None

Accounting I
1 Credit, 2
Laude Points
Grades 10-12
Dual Credit
Prerequisite:
None

Microsoft Office
½ Credit, 1
Laude Point
Grades 10-12
Dual Credit
Prerequisite:
None

Personal Finance
½ Credit
Grades 11-12
Prerequisite:
None
Required for
graduation

Math with Business
Applications
½ MATH Credit, 1
Laude Point
Grades 11-12
Dual Credit
Prerequisite:
Successful completion
of 2 credits of math
*See description under
Math*

Intro to
Business Dual
Credit
½ Credit, 1
Laude Point
Grades 10 -12
Dual Credit
Prerequisite:
Business 101

Accounting 2
with
QuickBooks
1 Credit, 2
Laude Points
Grades 11-12
Dual Credit
Prerequisite:
Accounting I

INFORMATION TECHNOLOGY

NEW

The I.T. Department is more flexible than ever! The introductory class “Computer Science Discoveries” will be run as a traditional class. The following 7 classes for dual credit will now have flexible schedules. What does this mean? Sign up for an I.T. class and work at your own pace (minimum requirements need to be met). Once a student finishes a class, they can start the next class without waiting for next semester. This program truly meets the student where they are at and allows them to take charge of their own learning.

All college credits are free. Credits will be earned by meeting requirements set forth by NTC. In the I.T. Department, 10th, 11th and 12th graders are eligible for college credit. Credits may be transferable to other post-secondary institutions. **These courses is intended for the motivated student who can work independently using NTC’s classroom management system in Canvas.**

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 create real-world projects and engage with computer science as a way for creativity, communication, problem solving and fun. Topics covered include problem solving, web development, animations and games, and physical computing. End the semester by building interactive projects using Adafruit’s Circuit Playground and App Lab where students program a circuit. ***This course is a prerequisite for I.T. Development and Design Fundamentals.***

I.T. DEVELOPMENT & DESIGN FUNDAMENTALS

Grade Level: 10, 11, 12

Credit: ½ high school, 1 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries

10-152-500 This course introduces the field of IT software development and design. Students will explore degree and career paths, I.T. tools and processes and begin to demonstrate professional communication. Students will create or modify a simple computer program using an integrated development environment.



WEB DESIGN 1

Introduces Hypertext Markup Language (HTML), Cascading Style Sheet (CSS) coding techniques and 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 create a personal website portfolio. Additional topics include: copyright considerations, text editors, FTP utilities and browser tools.



PROGRAMMING CONCEPTS 1

Introduces programming concepts and terminology using an object-oriented approach, with a focus on iterative development and testing. This course uses C# .NET, the Unified Modeling Language (UML) and other tools to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications that incorporate classes, fields, methods and variables. Additional topics include: utilization of an Integrated Development Environment (IDE), value and reference types, object instantiation/lifetime/scope and mathematical/conditional/logical expressions.



WEB DESIGN 1A

Grade Level: 10, 11, 12

Credit: ½ high school, 1 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries, I.T. Development and Design Fundamentals

NTC Course #: 10152551

PROGRAMMING CONCEPTS 1A

Grade Level: 10, 11, 12

Credit: ½ high school, 1 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries, I.T. Development and Design Fundamentals

NTC Course #: 10152501

WEB DESIGN 1B

Grade Level: 10, 11, 12

Credit: ½ high school, 1 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries, I.T. Development and Design Fundamentals, Web Design 1A

NTC Course #: 10152552

PROGRAMMING CONCEPTS 1B

Grade Level: 10, 11, 12

Credit: ½ high school, 1 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries, I.T. Development and Design Fundamentals, PC 1A

NTC Course #: 10152502

WEB DESIGN 1C

Grade Level: 10, 11, 12

Credit: ½ high school, 1 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries, I.T. Development and Design Fundamentals, Web Design 1A and Web Design 1B

NTC Course #: 10152553

PROGRAMMING CONCEPTS 1C

Grade Level: 10, 11, 12

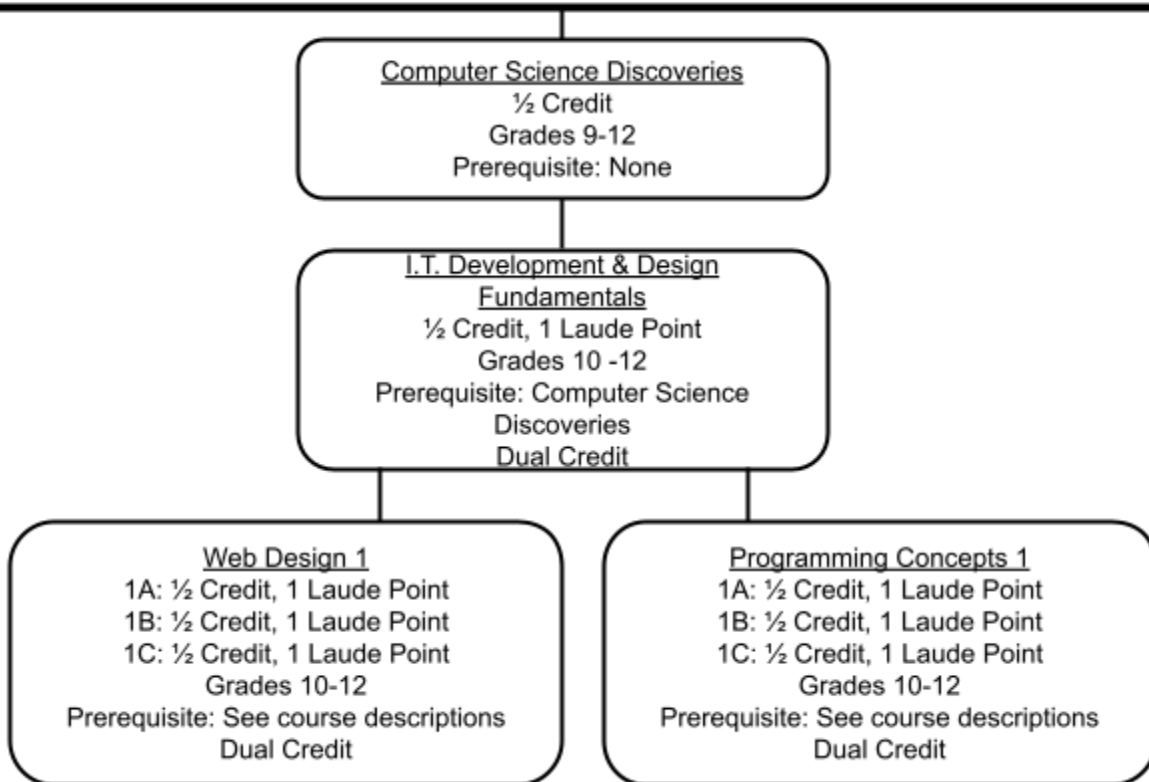
Credit: ½ high school, 1 NTC

Laude Points: 1

Prerequisite: Computer Science Discoveries, I.T. Development and Design Fundamentals, PC 1A and PC 1B

NTC Course #: 10152503

Information Technology



DRIVER EDUCATION BEHIND THE WHEEL

Behind the Wheel

Cost for behind the wheel instruction is \$275 per student. This obligation must be met before any behind the wheel instruction can occur.

Driver Ed. includes a minimum of six hours of driving and six hours observing designed to prepare the student for joining the highway transportation system, including a Wausau trip if convenient with schedule.

Prerequisite: Students must be passing all classes, at all times, to be granted the privilege to drive during study hall or any instructional time and have completed the classroom requirement of the course.

CLASSROOM SUMMER SCHOOL

Classroom

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 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, 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.

BASIC FOOD AND NUTRITION

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.

FAMILY, FOOD AND SOCIETY

Grade: 10, 11, 12

Credit: ½ - Fall Semester

Prerequisite: Basic Food and Nutrition

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 - Offered once every year.

Prerequisite: Basic Food & Nutrition

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: Basic Foods and Nutrition

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!

CREATIVE FOODS

Grade: 10, 11, 12

Credit: ½ - Spring Semester

Prerequisite: Basic Food and Nutrition

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 - Spring Semester

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. Several projects will be made with fabric purchased by students. Students are responsible for the cost of projects made in class.

PARENT AND CHILD

Grade: 9, 10, 11, 12

Credit: ½ - Spring Semester

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 have the opportunity to participate in a cooperative learning effort with Wittenberg Elementary School's 3 and 4 year old special education program. 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

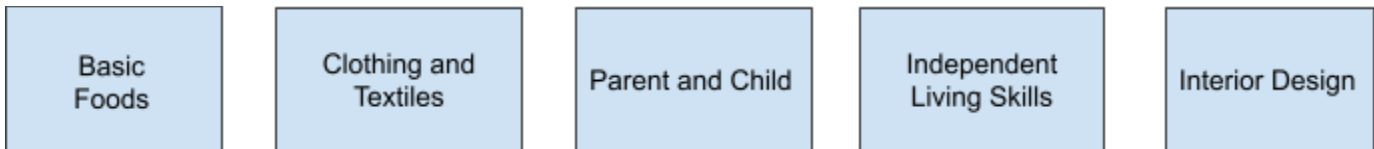
Credit: ½

Prerequisite: None

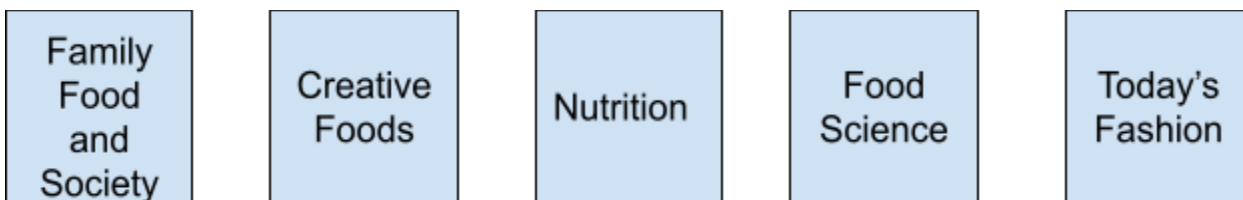
This course prepares students with the life skills they need to lead productive, independent lives as adults. A slower, paced class designed to accommodate the needs of a variety of students focusing on daily living skills, self-determination and interpersonal skills, and employment skills.

Family and Consumer Science Flowchart

Grades 9, 10, 11, 12



Grades 10, 11, 12



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

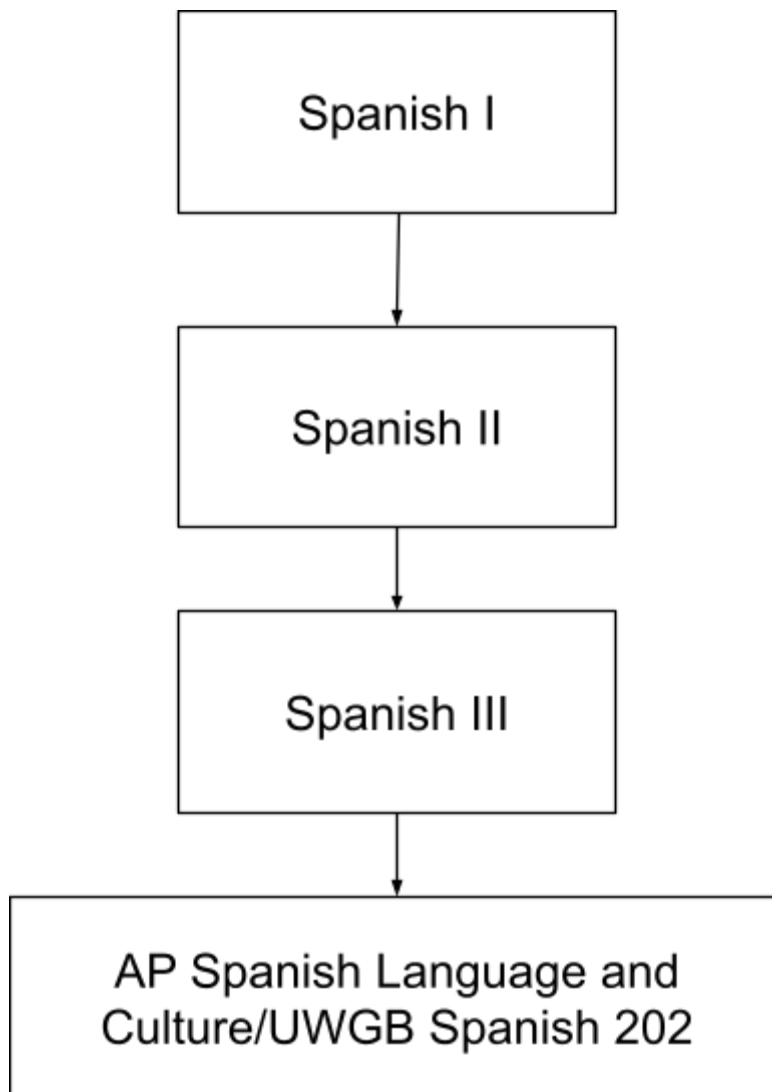
Recommendation: To have a C or higher in Spanish III

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: 1 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 lesson 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.

CHOIR

Grade: 9, 10, 11, 12

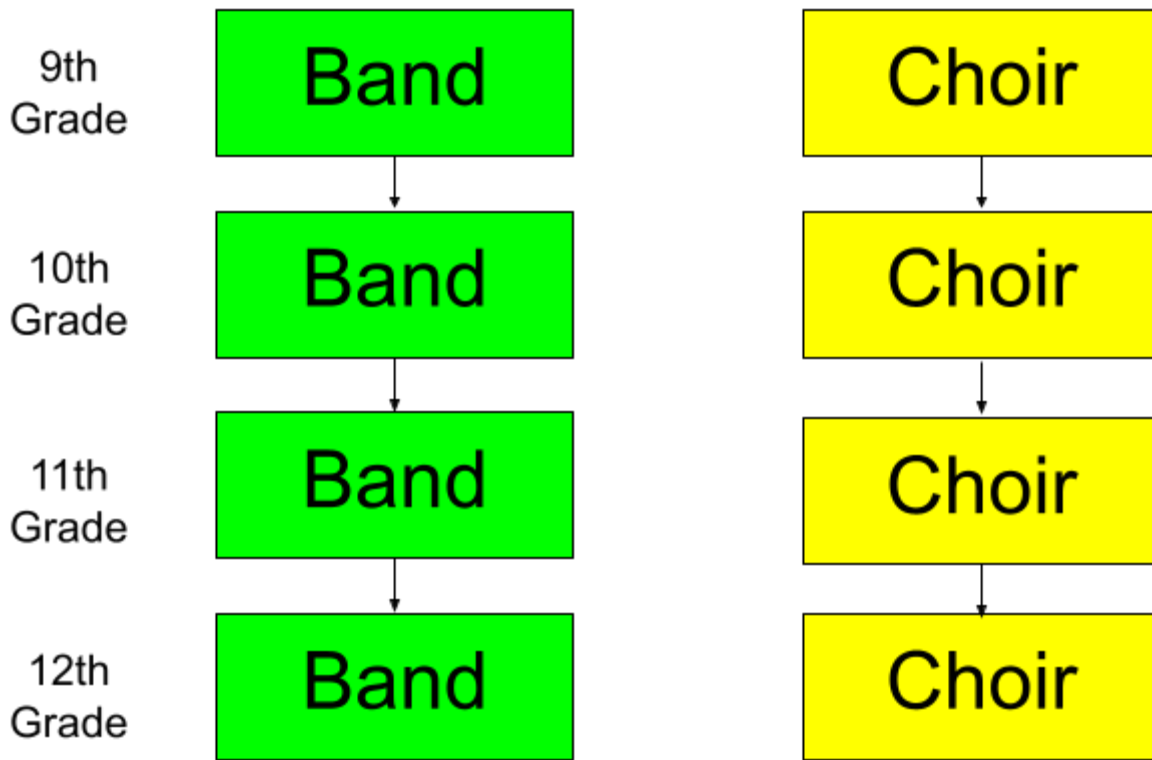
Credit: 1 credit, Laude Points: 2 for 3rd year, 2 for 4th year

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 COURSES

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

NTC TRANSCRIPTED CREDITS CAN BE EARNED

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 purpose. 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.



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

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**



Affordable. Employable. Transferable.

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 - Laude Points: 2

Prerequisites: Successful completion of Construction Methods

NTC TRANSCRIPTED CREDITS CAN BE EARNED

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 house from the ground up. Students will incorporate framing, roofing, siding, plumbing, electrical, flooring, trim and other finish work.



Affordable. Employable. Transferable.

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 develop a variety of technical skills associated with the wood techniques industry, while becoming more practiced in the safe use and operation of wood processing equipment. Students will build a small sized piece of furniture and are responsible for the cost of materials involved.

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

FURNITURE MANUFACTURING

Grade Level: 11, 12

Credit: 1 - Laude Points: 2

Prerequisites: Successful completion of Wood Processes

NTC TRANSCRIPTED CREDITS CAN BE EARNED

This course is the culmination of the Woods 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)



CABINET MANUFACTURING

Grade Level: 11, 12

Credit: 1

Prerequisite: Successful completion of Wood Processes

This course will provide students with the opportunity to design, build and install cabinetry in a real world situation. Students will work collaboratively to take measurements for a project, create a design and submit to a potential customer, understand and implement estimating of materials and labor cost, and build and install cabinets to industry standards.

Students will learn the process of cabinet building from design to installation, including building doors and drawers, cabinet boxes, and custom finishing techniques.

INTRO TO MANUFACTURING

Grade Level: 10, 11, 12

Credit: ½

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**

MANUFACTURING PROCESSES

Grade Level: 10,11, 12

Credit: ½

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**

WITT-BIRN MANUFACTURING

Grade Level: 11,12

Credit: 1 Laude Points: 1

Prerequisite: Successful completion of Manufacturing Processes & Instructor approval

NTC TRANSCRIPTED CREDITS CAN BE EARNED

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**



TECHNOLOGY EDUCATION
FLOW CHART

WOODS

METALS

Exploring
Technology
Grades - 9-12
Credit - ½

Construction
Methods
Grades - 10-12
Credit - ½

Wood
Processes
Grades - 10-12
Credit - ½

Small Engines
Grades - 10-12
Credit - ½

Intro to
Manufacturing
Grades - 10-12
Credit - ½

Building Trades
Grades - 11-12
Credit - 1

Furniture
Manufacturing
Grades - 11-12
Credit - 1

Cabinet
Manufacturing
Grades - 10-12
Credit - ½

Recreational &
Small Vehicle
Grades - 10-12
Credit - ½

Manufacturing
Processes
Grades - 10-12
Credit - ½

Architectural
Drafting
Grades - 10-12
Credit - ½

Mechanical
Drafting
Grades - 10-12
Credit - ½

Witt-Birn
Manufacturing
Grades - 11-12
Credit - 2

TECHNICAL DIPLOMAS 2021-22

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. Through Homme Home, students will be able to complete the course and clinicals right here in Wittenberg*. 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 times students will be able to take the course here in town at Homme Home. However, it is not always a guarantee due to various reasons. If that is the case, students will have the option of traveling to another NTC location or waiting until the next semester.



ERVING COURSE CATALOG 2021-22

Intro to Marketing

Grade Level: 10, 11, 12

Credit: ½

Prerequisite: NONE

This course will give you the foundations and functions of marketing. Students will then be able to create a marketing plan, create and distribute a product, set a price, promote the product, and then learn how to manage the risks and finances. Taught by Gresham.

Assistant Child Care Teacher

Grade Level: 11, 12

Credit: ½

Prerequisite: NONE

This course is excellent for students who are interested in a career in which they are working with children (teacher, counselor, child care, psychology, social work, community services). The course will emphasize the physical, emotional, social, and intellectual development of children, birth to adolescent. Students will focus on the application of child development principles to the care of children while in group settings. Students are required to complete 10 hours of observation and/or instruction in a child-centered environment. Upon completion of the course, observation hours, 85% attendance, and a grade of C or better, the student will receive a DPI Skills Certificate which allows them to be employed as an Assistant Child Care Teacher. The DPI and the Wisconsin Technical College System have entered into an agreement whereby three elective credits may be awarded for successful completion of this course upon enrollment in a WTCS Early Childhood Program. Taught by Iola-Scandinavia.

Sociology

Grade Level: 11, 12

Credit: ½

Prerequisite: NONE

Sociology is the study of human behavior and interaction with society. The course will include the following areas: personality growth and development, mental and emotional health, physical growth and learning, intelligence and thinking, behavior disorders and their effect on society. This course is for the average or above average student. Student evaluation: Exams - chapter, mid-semester, semester final, assignments; papers - four to six; classroom contribution; debate project. Taught by Bonduel.

Herpetology

Grade Level: 11, 12

Credit: 1

Prerequisite: Biology

Reptiles and amphibians have become very popular on television shows and in the pet trade. This class gives an overview of Herpetology, the study of reptiles and amphibians. It includes a survey of the various families, as well as explores the unique physiology, ecology and morphology of these two groups. Special highlights include a virtual tour of the Project Northwoods Turtle and Tortoise Rescue Center and guest lectures from experts in the field. The class includes ITV lectures, virtual simulations and laboratory activities, written reports, self-motivated projects and some exams. Fee: \$250 per student/semester *paid by the district as long as the course is not dropped or failed by the student*

Dual Credit

Medical Terminology

Grade Level: 11, 12

Credit: .5 HS/3 FVTC *OR* NTC Credit (Depending on Semester)

Laude Points: 1

Prerequisite: NONE

In medical terminology students will learn the component parts of medical terms such as prefixes, suffixes and word roots. Students will learn the rules for building and defining medical terms.

Emphasis is placed on the correct spelling of the terms. Students will practice formation, analysis and reconstruction of medical terms. Students will be introduced to diagnostic, therapeutic, symptomatic, and surgical terminology for the body systems. Taught by Marion.



CAPP Elementary/Secondary Education

Grade Level: 11, 12

Credit: .5 HS/3 UWOC Credit (Semester)

Laude Points: 1

Prerequisite: NONE

The main purpose of this course is to develop an informed understanding of what it means to be a professional K-12 teacher and to encourage critical perspectives of the relationship between the individual, school, and society. The course is designed to help foster cultural awareness at the individual and systemic levels and to promote equity and social justice in educational practices and in the community as a whole. Students will examine their own educational backgrounds and analyze influences that have shaped them as members of society and potential educators. We will explore a wide range of education topics, including diversity and equity, historical contexts of school in society, the politics of education, teachers' and students' roles, educational philosophy, pedagogy, and curriculum. Because this is a teacher education course, there will be opportunities to lead the class in discussion and activities. Cost to students is \$300 if they choose the credit from UW-Oshkosh. Taught by Iola-Scandinavia and UW-Oshkosh.



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-Biramwood 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.