Bangor High School Academic Handbook

2020-2021

Dear Parents,

One of the most important educational decisions a student makes is his/her selection of courses. Students and parents need to spend time together considering all of the educational options open to them. Because of state standards as well as district requirements, there are several specific requirements for each grade. As the student progresses through each grade level, more elective classes become available. It is here, that career goals become important considerations in course selection. Be assured that we at Bangor High School will provide assistance for anyone desiring help in course selections. Please feel free to call Ms. Schulz in the school counselor's office for this help.

Because intensive planning must be done to prepare a master schedule, it is most important that a student make a definite decision before signing up for a class. As a general rule, students will be required to take classes for which they have registered. Frivolous requests to change courses will be denied. Should a change in classes be necessitated for an extreme emergency, it will only be changed at the beginning of the semester. A low class average or the possibility of a low quarter or semester grade is not a valid reason for changing classes during a semester. Following the drop deadline, all classes that are dropped will result in an automatic "F".

Seniors will have the first options to select classes followed by the other grades in order. This gives the upper classmen the best opportunity to select classes they may still need or wish to take before graduation.

Sincerely,

Rick Muellenberg

Principal

NOTICE OF NONDISCRIMINATION POLICY

It is the policy of the Bangor School District that no person shall, on the basis of race, color, national origin, sex, age or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity, or in employment.

All vocational education programs follow the district's policies of nondiscrimination on the basis of race, color, national origin, sex, age, or handicap. In addition, arrangements can be made to ensure that the lack of English language skills is not a barrier to admission or participation.

Any questions concerning Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, or Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap, should be directed to:

Dave Laehn
Superintendent
District Office
700 10th Ave. South
Bangor WI, 54614
(608) 486-5202

PURPOSE AND GOALS

The purpose of education is to enable students to develop their potential for becoming fully functioning and responsible members of a diverse and changing democratic society.

To accomplish this purpose the district will provide a school environment that is:

Responsive - providing for changing needs through continuous assessment and diagnosis of student progress, systematic evaluation of the school program, continual updating of the professional skills of staff and participation of the community in decisions related to education.

Supportive - accepting each student as a human being, worthy in one's own right; prizing one's feelings, opinions, and person; and building on mutual trust and respect.

Expansive - offering effective access to community resources and providing a sufficient variety of learning alternatives and rates of progress.

The mission of the district is further defined by the following goals which every student should have an opportunity to achieve:

Develop Basic Skills - functioning in all areas of communication and in mathematics at the competency required for success in one's role as an individual, a family member, a citizen, and a worker.

Develop Responsible Citizenship - knowing and respecting one's rights, privileges, and obligations and those of others; responding to the needs of people; and assuming productive roles in various aspects of society.

Examine Cultural Differences - becoming knowledgeable of one's own heritage and respecting the diversity of values and traditions of persons from other social, ethnic, and linguistic groups.

Begin Career Development - Exploring career opportunities consistent with personal ambitions, talents, and interests, preparing for useful rewarding employment, and for continuing education.

Value Inquiry Process - learning and using skills and strategies of inquiry to solve problems and make decisions.

Acquire Knowledge - examining significant concepts and issues from the natural and social sciences and from the humanities, and reflection on their implications for human achievement in the past, the present, and the future.

Achieve Optimum Health - basing attitudes and decisions on an understanding of growth and development, and on an awareness of the interaction of one's physical, mental, social, and emotional dimensions.

Become Self-Motivating - demonstrating initiative, enthusiasm, self-direction, and continuing self-renewal.

Develop Aesthetic Sensitivity - responding to and participating in dimensions of creative expression.

Experience Self-Fulfillment - acquiring a positive self-concept as one experiences success in work and leisure, evaluating one's potentials, sensing purpose in one's activity, and developing effective interpersonal relationships.

BANGOR HIGH SCHOOL GRADUATION REQUIREMENTS

In order for a student to graduate from the School District of Bangor, the student must complete the following 24 credits of study:

Social Studies	3 credits (U.S. Government & Economics are required in 12th grade)
Mathematics	3 credits
Physical Education	2 credits
English	4 credits
Science	3 credits
Health	.5 credit
Personal Finance	.5 credit
Career Communications	.5 credit

(English credit for BHS graduation but may not be accepted as an English credit by some 4 year Colleges/Universities and it is not accepted by the NCAA Clearinghouse for student athletes).

Computer Applications	.5 credit

The remaining credits are earned by completing elective classes in the student's area of interest.
Students should register for seven classes.
Suggested course sequence for students bound for a 4-year college:

Freshman year:	Algebra I, English 9, Fitness & Wellness (.5) & Computer Applications (.5), Physical Science, U.S. History II, Health 9, *Foreign Language and elective.
Sophomore year:	Biology, English 10, Fitness & Wellness, World History, Geometry I, *Foreign Language and elective.
Junior year:	English 11, Physical Education Course, Algebra II, Chemistry and/or Anatomy & Physiology, Health 11/Career Communications, Social Science elective, *Foreign Language.
Senior year:	College Prep English, Physical Education Course, Pre-Calculus & Trigonometry, Physics and/or Anatomy & Physiology *Foreign Language, US Government, Economics and one or two electives.

Community Service Requirement

All Bangor students are required to complete 60 hours of community service to qualify for a Bangor School District High School Diploma. The Community Service requirement will be prorated for students who transfer into the district. Forms are located outside the school counseling office.

To be admitted to a 4-year college /university a student must complete the following *minimum* course requirements:

English - 4 credits
Math - 3 credits from the following: Algebra I, Geometry I, Algebra II (4 total credits recommended)
Science - 3 credits from the following: Earth Science, Biology, Chemistry, Advanced Biology, Physics (4 credits recommended)
Social Studies - 3 credits
Electives - 2 additional credits in any of the above areas or other academic/fine arts.

*Minimum of two credits of a single foreign language is required for admission to *some* but not all colleges. It is a recommendation for all colleges.

Recommended course sequences for students planning to attend a vocational/technical college will vary depending upon their chosen course of study. Check the program requirements at the technical college for specific course requirements. The technical college website is the best source for this information.

DROP-ADD POLICY

Classes may be added to a student's schedule only during the first two weeks of a semester. All schedule change requests will require a parent signature.

CLASS AUDIT POLICY

In some exceptional situations students may audit (take for no credit) a class with the instructor's permission. Students auditing a class will be expected to meet all class requirements. Grades for classes audited will appear on the report card but no credit will be awarded towards graduation requirements. ***The decision to audit a class must be made within the first five weeks of a semester.***

SECOND GRADE ONLY OPTION

Students who receive less than a C in a class may retake the class and replace the first grade with the second grade. It is the responsibility of the student to see that the grade is changed on their permanent record.

EARLY GRADUATION

Early graduation from Bangor High School may be permitted in accordance with appropriate state laws and approved district procedures. Requests will be evaluated on an individual basis. After receiving the recommendation from the administration, student's parent(s)/guardians and other appropriate staff members, The Bangor Board of Education will make the final decision.

Bangor High School Early Graduation Procedures:

In exceptional cases a student may arrange to acquire enough credits to graduate after six or seven semesters. Interested students should carefully read and adhere to the following procedures.

1) A student may apply for early graduation during the semester prior to their last semester of high school.

2) They must have completed all required courses and enough electives to equal or surpass the minimum number of credits required by State law and Board policy for graduation by the anticipated date of graduation.

3) Students must be enrolled in a minimum of six (6) subjects during their final semester, and must earn a C or better in each subject.

4) Students must submit two (2) letters, one (1) written by the student and one (1) written by the parent (s) or guardian. Both letters must state the following: (1) the reason (s) for the request, (2) why they feel greater benefit would be derived from leaving school early, and (3) the anticipated activity they will be involved in following early graduation.

5) The student must provide evidence of admission to some post-secondary institution or program, or a letter from employer stating that the student has been hired for a position following his/her early graduation.

6) Consult with his/her counselor to verify that graduation requirements can be met by the anticipated date of graduation.

7) Consult with the principal about graduation procedures, class rank procedures, honors and other considerations.

    a) Early graduates are still considered to be members of their cohort class (based on initial placement, if an incoming transfer student, and successive semesters of attendance).
    b) Class rank within their cohort class will be noted at the time the student left school.

c) Early graduates will be eligible for consideration for school-issued scholarships in the year their cohort class graduates.

8) No commencement exercises will be held in January. Early graduates will be permitted to participate in the next scheduled regular commencement exercises if they so desire. Their records will indicate completion of all graduation requirements for the purpose of employment or post secondary enrollment.

9) Early graduates will not be permitted to take part in any organized school activity (such as athletics, clubs, field trips, class trips, etc.), after their final semester is completed.

EARLY COLLEGE CREDIT PROGRAM

The Early College Credit Program allows all public and private high school students who meet certain requirements to take postsecondary courses (up to 18 credits) at a Wisconsin institution of higher education (UW System and private institutions). Any high school student in the Bangor School District may participate in the Early College Credit Program in accordance with state law and educational institution requirements in the Fall, Spring or Summer semesters. Admission of students to post-secondary institutions shall be contingent on meeting the institution's entrance requirements (class rank and/or ACT scores may be considered) and availability of space. The high school principal shall determine whether the post-secondary course (s) is comparable to a course offered at the District, whether it satisfies graduation requirements and what, if any, high school credits are to be awarded to the student.
Courses taken, as part of the Early College Credit Program shall be paid for as follows:

1. If the course is taken for high school credit only or for high school and postsecondary credit, and the course is not comparable to one offered in the District, the Board shall pay 75% of the costs associated with the course and the State shall pay 25%. (NOTE: If the student withdraws from or fails the course, the student must reimburse the school district for the associated cost)

2. If the course is taken for postsecondary credit only, and a comparable course is not offered in the District, the student shall pay 25%, the District 25% and the State 50% of the costs associated with the course.

3. The student/parent are responsible for any transportation costs for attending courses. (Note: State funding is available to assist in transportation costs for families in need)

If a student is not satisfied with the District's decision regarding comparability of courses, satisfaction of high school graduation requirements or the number of high school credits to be awarded, he/she may appeal such decision to the State Superintendent.

LEGAL REF.: Wisconsin Statutes 118.55(2)(a).

GUIDELINES FOR AWARDING HIGH SCHOOL CREDIT FOR EARLY COLLEGE CREDIT PROGRAM COURSES:

The high school principal will award credit for courses taken through the Early College Credit Program if they meet any of the district's graduation requirements and any of the following conditions apply:

1. Credit will be awarded for those courses taken which are extensions of the courses offered at Bangor High School.

a. No credit will be given for courses taken which are comparable to those offered at the high school.
b. No credit will be given for courses taken which repeat the course content for which a student has already received a passing grade and high school credit.
c. No credit will be given for courses taken which repeat the post-secondary course content, which a student has already taken and failed.

2. Credit will be awarded for those courses taken by students which:
   a. Provide the student with an opportunity to move to another level of course of study, or
   b. Provide the student with an opportunity to develop his/her or talents.
3. In order to receive high school credit for a course taken under the Early College Credit Program, a student must successfully complete the course and receive a passing grade.
4. One-quarter (1/4) high school credit shall be awarded for each college credit hour earned.

(NOTE: The grade received for an ECCP course, if used for high school credit, will apply toward the student's high school GPA and any failing grade may affect the student's eligibility under the WIAA's and the school's Co-Curricular Code.)

EARLY COLLEGE CREDIT PROGRAM STUDENT RESPONSIBILITIES:

1. Submit an application developed by the institution of higher education (IHE) to the IHE in the previous school semester in which he or she plans to attend and indicate whether the post secondary course or courses will be taken for high school credit or post secondary credit.

2. Notify the school board of the district in which the student is enrolled of his or her intention of enrolling in an IHE no later than March 1 if the pupil intends to enroll in the fall semester, no later than October 1 in the student intends to enroll in the spring semester. The notice shall include the following information:
   a. The pupil's name, address, date of birth, telephone number and grade in school.
   b. The name of the pupil's parent or guardian.
   c. The name of the IHE the pupil plans to attend.
   d. The title of the post-secondary course or courses in which the pupil intends to enroll.
   e. The number of post-secondary credits for each course.
   f. Whether the post secondary course will be taken for or post secondary credit.

3. Notify the school board of the school district in which the student is enrolled if he or she is admitted to the IHE.

4. Notify the school board of the school district in which the student is enrolled if he or she is registered to attend a post-secondary course.

5. Notify the school board of the school district in which the student is enrolled as soon as practicable if he or she is not registered to attend the post secondary course specified, but instead, registered to attend a different course.

START COLLEGE NOW PROGRAM

Any public school junior or senior in good academic standing may apply to take courses at a Wisconsin Technical College.

LEGAL REF.: Wisconsin Statutes 38.12(14).

Course Descriptions

AGRICULTURAL SCIENCE

INTRODUCTION TO AGRI-SCIENCE

Grades 9-11
Prerequisite: None
1 Semester

In this semester course students will study the scope and make-up of agriculture and agribusiness. Students will spend time in the greenhouse learning about different plants. We will discuss the importance of protecting our natural resources through the study of many lab activities. Both wild and domesticated animals will be studied with emphasis put on both livestock and companion animal species. We will also spend some time looking at the agronomy industry and students will study how food is produced, harvested, processed, distributed and retailed. There will be food labs where students learn how different foods are made. The FFA will also be discussed with an emphasis in communication and leadership.

SMALL ANIMAL SCIENCE

Grades 9-10, 11th Graders may take the class upon instructor consent.
Prerequisite: None
1 Semester

Any student with an interest in companion animals should consider this course. Anatomy, physiology, breeding, nutrition, identification and management of dogs, cats, rabbits, pocket pets, reptiles, amphibians and fish will be covered. Animal behavior, housing, training, grooming and showing will be discussed and demonstrated. Approved veterinary practices will be studied along with various diseases and disorders of companion animals. Students will have the opportunity to bring their pets into the classroom. Prospective FFA involvement may be discussed as we focus on the organization's ability to reward students for their interest and experience in the small animal industry. Students will organize field trips / guest speakers to foster additional learning.

LARGE ANIMAL SCIENCE

Grades 10-12
1 Semester

This semester long course takes the place of Animal Science and Animal Agriculture. The purpose of this class is to give students a variety of the necessary knowledge and skills about the profitable management practices involved in producing animals such as dairy, beef, swine, sheep, goats, horses, poultry and other alternative species. During the semester we will focus on topics such as domestication, breed identification, anatomy, housing & husbandry, marketing, meats, animal products, welfare, and rights. Students will be encouraged to work with live animals. Labs will be emphasized in this class.

VETERINARY SCIENCE

Grades 10-12
Prerequisite: Large Animal Science
1 Semester

This course is meant to build off of the knowledge gained in Large Animal Science and Small Animal Care and continue in to more advanced topics in the animal industry. Topics covered will be animal behavior, nutrition, digestion, body systems, medical procedures, genetics, bio-security, diseases and disorders, animal health management, and livestock evaluation. Approved animal procedures will be covered and demonstrated in this class, along with lab procedures, field trips and guest speakers.

INTRODUCTION TO PLANT AND SOIL SCIENCE

Grades 10-12
Prerequisite: None
1 Semester

Whether or not you have a green thumb, this course is for you! If you are interested in exploring plants and all they represent, plus working in the greenhouse, you should take this class. This class will cover plant nomenclature, plant parts and functions, plant nutrients, and plant growth. We will take a look at floral design, container gardens, corsages, boutonnieres, bow making, greenhouse management and introduce landscape design. Flower shop pricing and marketing strategies will be covered. Soil Science will also be covered in this class, which will include the topics of soil formation, soil water, soils types & composition, soil structure, soil nutrients, and how soil impacts plant growth.

HORTICULTRE/ LANDSCAPE DESIGN

Grades 10-12
Prerequisite: Introduction to Plant and Soil Science
1 Semester

This course is intended to provide an overview of the rapidly growing "greens industry". This course will provide an understanding of the development, installation and maintenance of a home and commercial landscape. Use of space, soil quality, principles of landscape design, propagation techniques, identification of common landscaping trees, shrubs, ground covers and various flowers will all be discussed and practiced. Actual marketing and pricing techniques will also be covered while planning the Spring FFA plant sale. A residential home and a commercial building landscape may be planned and installed by the class. Anyone who enjoys working outdoors and is interested in a landscape career or in developing a landscape at home should consider this course. We will real life examples in our classroom to study what is taking place in the landscaping industry. Additional field trips, some organized by students may be taken throughout the semester to compliment instruction. Membership in the FFA is highly encouraged in this class.

FOOD SCIENCE

Grades 10-12
Prerequisite: None
1 Semester

How do you create all those types of soda? What makes the perfect block of cheese? Can we create a low-carb cookie that tastes like the real thing? These are just a few of the challenges food scientists face in the ever important quest to find tasty, fun, healthful ways to feed the world. Explore science through the exciting world of food! This course offers food topics from production to consumer. Using scientific research, we will evaluate how food is handled and processed every step of the way to your table. Topics such as how foods are processed, food safety, current food controversies and food laws & regulations will be discussed as well as a brief introduction to the different areas of study and career opportunities within the food science industry. This class

will contain many labs to help students understand the inner workings of food. Food Science is a course designed to introduce the learner to the relationship between food, additives, processing and your health.

AGRIBUSINESS MANAGEMENT

Grades 11-12
Prerequisite: Any agriculture course or consent of instructor
1 Semester

The materials in this course will be presented in such a way that it can apply to all forms of business; however, agriculture will be the focus. Students will study different types of business organizations and what it takes to properly establish a business. Farm organizations, cooperatives, laws, and how to keep up with ever changing agriculture industry without going bankrupt will be addressed. We will take a look at where we started in agriculture and how far we have come! The marketing of agriculture products will be studied and practiced as they move from producer to consumer. Tax forms, record keeping methods and financial calculations will be heavily studied and practiced. Careers will also be a major focus as there are many opportunities in agriculture within the realm of business and marketing.

AGRICULTURE MECHANICS

Grades 9-12
Prerequisite: None
1 Semester

This is an introductory course in the theory and application of small engines and basic agricultural mechanics. An emphasis will be put on 2 and 4 cycle engine operation, maintenance, and troubleshooting techniques. Students will also have an opportunity to learn about different career opportunities in the agricultural mechanics industry and be able to explore those opportunities through question and answer sessions with industry leaders and professionals. Grading will be primarily participation in the shop and lab setting. Towards the end of the semester students will have the opportunity to bring in their own engines and projects to work on, with the instructor's permission.

WILDLIFE MANAGEMENT AND NATURAL RESOURCES

Grades 9-11
Prerequisite: None
1 Semester

Are you interested in the great outdoors? Have you ever wondered about the impact you have on the environment. Are you interested in alternative energies? If you answered yes to any of these questions then this class is for you! In Wildlife Management and Natural Resources we will cover topics such as the value of different types of wildlife and their habitats, the Wisconsin deer herd, legal land descriptions, forestry, timber management and timber cruising, and forest safety. Along with wildlife, this class will discuss alternative energy and the use of natural resources, the myth and/or cause of global warming/global climate change, and agriculture's impact on the environment. Outdoors opportunities will be explored and field trips will be scheduled to compliment instruction.

ART

ART SURVEY

Prerequisite: None
1 Semester

Students will explore a variety of media, techniques, and develop a personal creative identity. Units covered in this course are Elements of Art, the Principles of Design, Drawing, Painting, and 3D Design. Elements of art, history and culture, artistic analysis, and aesthetic perception will permeate all of the projects done during the course of the semester.

DRAWING AND TWO-DIMENSIONAL DESIGN

Prerequisite: Art Survey
1 Semester

Students will explore different approaches to drawing while applying the elements and principles of design to develop skills and sensitivity to line, shape, color, value, texture and composition. A variety of mixed media and drawing techniques will be explored. Students will be expected to develop technical skills and their own styles of drawing. This course is designed for students who are sequentially building their critical thinking skills and techniques in two-dimensional art. It will provide opportunities for students to explore their abilities to transmit forceful and meaningful ideas in a variety of media to a two-dimensional surface.

PAINTING

Prerequisite: Art Survey
1 Semester

Students will explore different approaches to painting and painting techniques using a variety of media. Emphasis will be placed on the elements of art and design with an emphasis on color and composition. Students will develop technical skills and personal style. Students will learn the basic construction of painting, the tools, the techniques, the mediums, and subject matter. Students will develop an understanding of realistic, abstract, and non-objective painting styles. In addition to art production, students will use a variety of learning strategies including reading, writing, and analyzing to develop a deeper understanding of art

CERAMICS, SCULPTURE, AND THREE-DIMENSIONAL DESIGN

Prerequisite: None
1 Semester

Students will explore various approaches to clay construction, while applying the elements and principles of design to create three-dimensional form. The course will emphasize hand building methods as well as an introduction to the pottery wheel. Students will learn various decorating techniques as well as the clay firing processes. This course will include techniques in three-dimensional form through sculpture and relief techniques. The Art Elements of form, shape, and texture will be emphasized along with the technical use and applications of appropriate tools.

INTRODUCTION TO DIGITAL MEDIA ARTS

Prerequisite: None

1 Semester

In Intro to Digital Media Arts, students will learn to exercise their creativity by exploring digital photography and graphic design. Students will use the elements of art and the principles of design to express their visions and produce quality digital artwork. Students will learn computer illustration techniques, image manipulation, digital camera use and graphic design through an integrated approach using iPads, computers, and digital cameras. Art historical movements will also be studied as they relate to student projects.

ADVANCED ART

Prerequisite: Art Survey & Instructor Consent
1 Semester

Students will do an in-depth study of one or more mediums of their choice. Students will create a student and teacher contract where the student will describe what they would like to accomplish and how they will go about it. The student will create a timeline for work completion and a list of mediums/projects that they will explore during the semester. The teacher and student must come to an agreement and sign this contract before the start of the semester.

BUSINESS & INFORMATION TECHNOLOGY

Accounting Note:
Starting with the 2017-18 school year, the Accounting classes are being split into semesters. Previously, Accounting I & II were each year-long classes. Taking Accounting I, II, II, IV would equal 2 years of Accounting under the new system.

ACCOUNTING I

Grade Level 10-12
Prerequisite: None
1 Semester

If you are considering a career in Business, Accounting is a foundational class that you must take. Accounting I covers the accounting cycle in its simplest form. The course will include: proprietorship, partnership accounting. Students will use general & combination journals, general ledgers & subsidiary ledgers, and cash control systems. Students will also learn to use a basic automated accounting system.

ACCOUNTING II

Grade Level 10-12
Prerequisites: Accounting I
1 Semester

Accounting II covers the accounting cycle in its simplest form. The course will include: partnership and corporate accounting. Students will use combination journals, subsidiary ledgers, payroll, and inventory systems. Students will also learn to use a basic automated accounting system.

ACCOUNTING III

This course is transcripted with Western Technical College. Must take 3 semesters of Accounting to qualify and must meet Western's course competencies.

Grade Level 11-12
Prerequisites: Accounting II
1 Semester

Accounting III will include corporate, managerial, and cost accounting. Students will use automated accounting to learn the different aspects of accounting.

ACCOUNTING IV

Grade Level 11-12
Prerequisites: Accounting III
1 Semester

Accounting IV will include corporate, managerial, and cost accounting. Students will use automated accounting to learn the different aspects of accounting.

DESKTOP PUBLISHING (Yearbook)

Grade Level 10-12
Prerequisites: None
Full year

The emphasis of this project-oriented class will be on the production of the school yearbook. With affordable and easy-to-use desktop publishing software, many businesses are producing a wide variety of printed materials within their own companies. Students will find this course a handy tool for creating a variety of professional-looking documents for personal and business use. This course is also designed to familiarize students with skills needed to publish a yearbook.

PERSONAL FINANCE ***(Financial Literacy Graduation Requirement)***

This course is transcripted with Western Technical College.
Grade Level 11-12
Prerequisite: None
1 Semester

Personal Finance is designed to help students recognize the importance in taking responsibility for their personal economic well-being. Students will be given the tools to become financially literate in a variety of areas including: Identifying Financial Goals, Checking & Banking, Budgeting, Spending, Saving, Investing, Insurance, Using Credit Wisely, and building strong financial security now and in the future.

TECHNOLOGY WORKSHOP (Web 2.0 Tools & Google Apps)

Grade Level 9-12
Prerequisite: None
1 Semester

Technology Workshop will have a blended learning environment. Students will be in the traditional classroom with teacher led activities and they will also experience an online learning environment. This class will include many Web 2.0 tools for photo editing, multimedia presentations, collaboration, drawing, and much more. We will also work with Google Tools such as Google Docs, Google Calendar, Picasa, Sketchup and more.

INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP

This course is transcripted with Western Technical College. Must meet all of Western's course competencies.

Grade Level 10-12
Prerequisite: Computer Applications I
1 Semester

Business and Entrepreneurship Foundations (or Introductions to Business and Entrepreneurship) introduces the concepts and skills required for success in today's marketplace. It will provide an abundance of practical applications that connect students to the business world and allows them to explore the foundations of business operations. Core topics will include: forms of business ownership, management and organization, human resources management, marketing, social media and e-business, information systems, accounting, and finance.

COMPUTER APPLICATIONS I (Graduation Requirement)

This course is transcripted with Western Technical College. Must meet all of Western's course competencies.

Grade Level 9-12
Prerequisite: None
1 Semester

Computer Applications will cover the basics of Microsoft Word, Microsoft Excel, Microsoft Access and Microsoft Power Point. Students will learn how these applications can be used in their personal lives as well as how they are used in the business world. Database and Internet activities will also be integrated into exercises.

COMPUTER APPLICATIONS II

Grade Level 10-12
Prerequisite: Computer Applications I
1 Semester

Computer Applications II is a one-semester course designed to provide students with opportunities to enhance their computer technology, decision-making, productivity, communications, and problem solving skills. Areas of instruction include advanced computer applications and integration of Microsoft Word, Excel, PowerPoint and Access. Desktop publishing, using Adobe InDesign, will be used to develop newsletters, brochures, flyers and other documents. Webpage creation will also be introduced using Adobe Dreamweaver as well as the use of emerging technologies. In this course student can acquire advanced skills required to create, edit and publish industry appropriate documents related to business and technology occupations.

Bangor High School has become a Certipoint Testing Center and will offer MOS Certification testing starting with the 2016-2017 school year. All student who complete Computer Applications II will be able to take 3 certification tests.

EXPLORING COMPUTER SCIENCE

Grade Level: 9-12
Prerequisite: None
1 Semester

Exploring Computer Science is a course that teaches the creative, collaborative, interdisciplinary, and problem-solving nature of computing with instructional materials, which feature a fun, inquiry-based approach to learning and teaching. Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics: Human Computer Interaction, Problem Solving, Web Design, and Introduction to Programming and Robotics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues

ENGLISH

ENGLISH 9

Prerequisite: None
Course Length: Full year

The major focus of English 9 is the study of oral, written, and literary exposition. Students will be expected to build upon basic speech techniques by making several presentations to the class. The composition component of the course includes the study of parts of speech, sentence parts, structure, and combining; paragraph structure and development; and the short essay. Emphasis will be on basic expository skills.
The literary component will include the study of genre units including mythology, short stories, non- fiction, drama/poetry (***Romeo and Juliet)*** and possibly the novel. Students are expected to read Accelerated Reader books independently within their STAR reading levels.

ENGLISH 10

Course Prerequisite: English 9
Course Length: Full year

The first semester of English 10 will focus on developing tolerance and empathy toward others and will include a variety of types of reading and writing related to these themes. Major works studied include two or more of the following titles: *Their Eyes Were Watching God, Night,* and *Macbeth*. Students may also participate in literature circles to learn how to analyze literature independently. The writing emphasis will consist of a study of the different genres of writing: narrative, descriptive, informative, and persuasive. These genre-based units will include a study of literature and writing, various essays (including the standard 5-paragraph form), and related grammar study. The study of speech concepts is an integral part of this class. Students will be presenting 3-5 speeches throughout the year. Grammar and vocabulary are also studied.

ENGLISH 11

Prerequisite: English 10
Course Length: Full year

English 11 is a course designed to develop skills in the area of reading, writing, speaking, and listening. Along with a survey study of American literature, students will continually work on improving the structure of sentences and essays. The course chronologically explores the foundation of American literature, beginning with the Native American culture. During the first semester, students will study the Puritan culture by reading the play, *The Crucible*. Also during the first semester, students will study the works of Transcendentalists and Anti-Transcendentalists. By the second semester, students will progress from literature of the Civil War era into modern American literature. An emphasis on the study of the American Dream will be examined in the second semester when students read John Steinbeck's *Of Mice and Men.* Students will write an extensive research paper on an American novel and its author. If time, students will study multi-cultural literature from current immigrant groups.

ENGLISH 12

Prerequisite: English 11
Full year

This course is designed to follow a four-unit curriculum with increasing complexity. The students are required to read and respond to narrative and informational texts, analyze themes across time periods, review and promote social awareness of current events, and develop an argumentative essay to name a few. Some of the selected texts for this course include *The Great Gatsby, 1984, Hamlet,* seminal US documents and literature circles. In taking this course, students must be prepared to self-critique, develop their writing, perform peer reviews, critically think and problem solve, and engage in collaborative discussion.

CAREER COMMUNICATIONS

Prerequisite: English 10, junior or senior standing
1 semester

This class explores the process of finding and succeeding in a career. This study begins with an overview of the 21st century world of work and an exploration of self, including self-interest inventories to determine appropriate career choices. The focus of the beginning quarter of the class is writing a research paper (in MLA format) based upon possible career choices. Students then develop a portfolio of job search tools: job applications, a variety of business letters, and a resume. After studying the appropriate ways to prepare for an interview, students participate in a practice interview in lieu of a final exam. Students are also required to job shadow a career for successful completion of this course. Students enrolled in this course should expect to work independently, as well as in pairs, small groups, and participate in class discussions. The final exam for the course will be replaced with a mock interview.

AP ENGLISH LANGUAGE AND COMPOSITION

Grade Level: 11-12
Prerequisite: English 9, English 10; Instructor approval
Full Year

In this course, students will read and analyze a variety of texts, examining author's purpose and the strategies that authors use to portray their message to an audience. Students will practice various forms of writing including expository, analytical, and argumentative. Since most writing in college is based on reading, personal experiences, and observations, students will be required to synthesize these when proving an argument in their writing. Students will learn how to synthesize their findings from primary and secondary sources with other texts, using proper citation format. Students taking this course will be prepared to take the AP English and Composition exam, in which they could earn college credits.

AP ENGLISH LITERATURE AND COMPOSITION

Grade Level: 11-12
Prerequisite: English 9, English 10; Instructor approval
Full Year

In the AP English Literature and Composition course, students devote themselves to the study of literary works written in—or translated into—English. Careful reading and critical analysis of such works of fiction, drama, and poetry, selected locally by responsible educators, provide rich opportunities for students to develop an appreciation of ways literature reflects and comments on a range of experiences, institutions, and social structures. Students will examine the choices literary writers make and the techniques they utilize to achieve purposes and generate meanings. Students also study writing and speaking skills that will allow them to express their interpretations precisely and logically.

ARGUMENTATION AND DEBATE

Grade Level: 12
Prerequisite: English 9-11
1 semester

In this course, students will develop persuasion and argumentation skills through reading, writing, speaking, and listening. An emphasis is placed on developing and supporting arguments in a variety of written and oral formats, including formal debate, essay writing, product proposals, and a mock political campaign. Students will also analyze and evaluate the arguments of others in media and politics. Students will often work in teams to prepare for and participate in formal debate.

CREATIVE WRITING

Grade Level: 12
Prerequisite: English 9-11
1 semester

In Creative Writing, students play with words, characters, and situations, using discussions, activities, and writing prompts. Students will produce multiple drafts of short stories, poems, and analysis; engage is self and peer feedback; and evaluate real authors' processes and work. Most importantly, students get to choose the topics and forms of their writing, so they get to take ownership over their work.

CONTEMPORARY LITERATURE

Grade Level: 12
Prerequisite: English 9-11
1 semester

Students will comprehend, interpret, and evaluate literature by contemporary authors. Students will often work in groups/literature circles to achieve these goals, and will create projects and write essays to show their understanding of and connection to the literature that they're reading.

FAMILY & CONSUMER EDUCATION

CREATIVE SEWING

Prerequisite: None
1 Semester

Creative Sewing is a course that will build on the skills learned in eighth grade and will focus on sewing for the individual. Students will work with a variety of fabrics to create accessories, home decor, quilts, or fashions of their choice. This will be a hands-on lab class with individual projects to be determined. Students will learn how to operate a sewing machine and will be completing large-scale projects.

ADVANCED SEWING

Prerequisite: Creative Sewing
1 Semester

Advanced Sewing is for those students who want to build upon the skills learned in Creative Sewing. This course will emphasize advanced clothing construction techniques and the application of these techniques to ready-to-wear apparel and home goods.

HOUSING & INTERIOR DESIGN

Prerequisite: None
1 Semester

Housing & Interior Design is for those students who enjoy design and want to learn more about housing, interior decorating and design. The course explores careers related to the housing and interior design market through many individual projects. Elements and principles of design are applied to furnishing, designing and decorating a home. Topics will include figure and color analysis, creating a fashion look, textiles, and interior design for the home.

CHILD DEVELOPMENT

Prerequisite: Sophomore, Junior, or Senior standing.
1 Semester
Transcripted credit with Western Technical College

This course is helpful in caring for children, preparing for parenthood or for a career involving children. Study

the development of a child from conception through pregnancy, infancy and preschool years. Growth and development are studied from the social, physical, mental and emotional aspects. Child Development is recommended to build basic parenting skills and is especially appropriate for students with interest in human services and education-related careers. This course is required of any individual wanting to take Assistant Child Care Teacher. Upon completion with a "C" or better on Western Technical College's grading scale, students *may* earn college credit.

ASSISTANT CHILD CARE TEACHER

Prerequisite: Child Dev. with a C or better. Students must be 17 by the completion of the class in order to earn a DPI certificate.
1 Semester

This course would be beneficial for anyone considering a career that involves interaction with children. The world is filled with careers that involve interaction with children. The ACCT course takes you beyond the classroom and into the lives of children. ACCT is an excellent opportunity to gain useful information about children, responsibilities of working in a childcare center, create activities, develop lessons, their health and safety, meals and snacks, and become certified in first aid and CPR. Students will complete 12 hours of job shadowing in a community childcare facility and organize their own preschool.
Note: Upon successful completion of this course with a grade of B or better students *may* obtain a DPI skills certificate to work in a licensed childcare facility at age 17.

FOODS I

Prerequisite: None
1 Semester

Take the first step in food preparation. Learn beginning food preparation techniques, cooking terms, how to read a recipe and safety and sanitation in the kitchen. This class focuses on how to cook by breaking down the food groups outlined by MyPlate and highlighting various cookery techniques for each. Grocery shopping, dinner party planning and simple meals will also be covered by the end of the semester. Students will leave this class with an understanding of how to survive in the kitchen.

FOODS II

Prerequisite: Sophomore, Junior or Senior standing and a C or better in Foods I
1 Semester

Are you hoping to improve the cooking skills that you already have? Foods II is designed for the students that want to take food preparation to the next level. Units to be covered will be cooking methods, baking and pastries, and regional and international foods. Students must have successfully completed Foods I to register for Foods II. It is an advanced level food course.

FOODS III

Prerequisite: Junior or Senior standing and C or better in both Foods I and Foods II or instructor approval.
1 Semester

If you are interested in a career in the foodservice industry, Foods III is for you. This class will focus on the professional aspect of food preparation and careers in the food industry. Other units include sanitation and safety, choosing flavors, garnishing dishes and the behind the scenes of a restaurant. A class restaurant will be

created and put in production during the semester. Advanced techniques in food preparation and management are stressed for use in all types of food service.

NUTRITION & HEALTHY COOKING

Prerequisite: None
1 semester

We hear the buzz words all the time: eat healthier, obesity on the rise, organic, natural, fad diet, GMOs. With so much information being thrown at us, we need to look at what it all means and develop ways to implement it into our own lives. This course will look at nutrients, dietary guidelines, MyPlate, food labels, food allergies, fad-diets, world diets, careers in health, substitutions, sports nutrition, creating personalized menus and preventing and handling diseases. Nutrition & Healthy Cooking will also incorporate food labs to help students apply the ideas they are learning. Prepare yourself to make healthy food choices after high school for a healthier life!

INTRO TO HEALTH OCCUPATIONS

Prerequisite: Junior or Senior standing
1 Semester

Considering a career in the healthcare field? Whether you know the specific area you want to go into or are just looking at options, this class is for students who have a desire to learn the basics of the healthcare industry. Learn the fundamental skills and professional and academic knowledge necessary for working in informatics, therapeutics, diagnostics, support services and biotechnology careers. Various healthcare pathways will be explored enabling students to gain an understanding of all their potential career options.

FOREIGN LANGUAGE

SPANISH I

Prerequisite: None
Full year

Spanish I is devoted to learning the basics of the language. It provides the beginning student with a true flavor of the language through the spoken word and verb conjugation. Emphasis is placed on grammatical structure. The student is also introduced to cultural diversity.

SPANISH II

Prerequisite: Spanish I (C average or Instructor consent)
Full year

Spanish II provides the student with continuing opportunities to hear the spoken language, speak it, read and write it. It will provide a solid foundation of basic useful vocabulary and grammar. Students will also continue to study cultural points of Spanish speaking countries and peoples.

SPANISH III

Prerequisite: Spanish II (C average or Instructor consent)
Full year

Spanish III consolidates basic grammar with a greater emphasis on speaking. Students will be introduced to higher grammar structures and read a variety of short stories in the language.

SPANISH IV

Prerequisite: Spanish III (C average or Instructor consent)
Full year

Spanish IV emphasizes more reading and writing activities related to Latin American culture. It will challenge students to use previous knowledge to create journal entries and to follow a story through out the year to strengthen listening skills. Spanish grammar is also studied at a more complex level.

HEALTH

HEALTH AND WELLNESS

Prerequisite: Grade Level 9
1 semester
Credit: Required for graduation

This course develops understanding, attitudes and skills needed to reach and maintain an optimum level of wellness through units of nutrition, stress management, mental health, personal health, human sexuality, drug education, health promotion and protection, CPR & first aid and health careers.

HOLISTIC HEALTH

Grade Level: 10-12
Prerequisite: Health 9 with a C or better.
1 semester

If the human body and our capacity for relationships interest you, Holistic Health is a class you want to take. We will further explore health education topics such as nutrition, fitness, human growth and development, anatomy, tobacco, alcohol and other drugs, addiction, mental health issues and emotional health. We will also investigate the power of the human body, spiritual health and holistic health care approaches.

CHARACTER STRONG

Grade Level: 10-12
Prerequisite: Health 9
1 semester

In this course, you explore possibilities, meet new challenges, and seek to strengthen your leadership skills in all aspects of your school experience and beyond. This interactive course focuses on personal development, creating positive change within communities and servant leadership.

MATHEMATICS

Grade 9:	Algebra Skills I or Algebra I
Grades 10-12:	Algebra Skills II or Geometry I
Grades 11-12:	Algebra II OR Consumer Math
Grades 12:	Pre-Calculus & Trigonometry, Algebra II or Consumer Math or Math-Physics

ALGEBRA SKILLS I

Prerequisite: None
Full year

Algebra Skills I develops and covers the same skills as the first semester of Algebra I, but in a yearlong course. The course is paced appropriately for students who have difficulty in math. Some of the topics covered include: applications of mathematics; the basics of algebra; properties of real numbers; solving, graphing, and writing linear equations.

ALGEBRA SKILLS II

Prerequisite: Algebra Skills I
Full year

Algebra Skills II develops and covers the same skills as the second semester of Algebra I, but in a yearlong course. The course is paced appropriately for students who have difficulty in math. Some of the topics covered include: applications of mathematics; solving and graphing linear inequalities; systems of linear equations and inequalities; exponents and exponential function; quadratic equations and functions; and polynomials and factoring.

ALGEBRA I

Prerequisite: None
Full year

This course covers an array of topics including properties of real numbers, linear equations and inequalities, exponents and exponential functions, solving and graphing quadratic equations and functions, and factoring polynomials. Students who do well in this course should be able to continue on into Geometry I and Algebra II.

GEOMETRY I

Prerequisite: Algebra I; or Applied Math I&II
Full year

This course gives students a foundation in theory and application in formal and informal reasoning, and in synthetic, coordinate, and transformational approaches. Some of the topics covered include the basics of geometry, segments and angles, parallel and perpendicular lines, triangle relationships, congruent triangles, quadrilaterals, similarity, polygons, surface area, volume, right triangles, and circles. Informal reasoning is used to a greater extent.

ALGEBRA II

Prerequisite: Algebra I (C average/consent of instructor) and Geometry (C average/consent of instructor)
Full year

This college-prep course is an extension of the goals and directions of Algebra I. Some of the topics covered include basic algebra skills review, rational expressions, irrational and complex numbers, and conic sections.

PRE-CALCULUS & TRIGONOMETRY

Prerequisite: Algebra I & II and Geometry
Full year

This course is primarily for those students who plan to advance their mathematical skills at the college or technical level, especially those considering a math oriented career such as engineering, business, the sciences, and/or math. Students will review Algebra II and will be exposed to more advanced algebra, trigonometric functions, logarithmic and exponential functions, sequences, series, statistics, and probability.

CONSUMER MATH

Prerequisite: Junior or Senior Standing
Full year

Mathematics at this level is intended to review and reinforce computational skills by presenting various problems in the consumer area. Students will improve their financial literacy as they learn about real life money matters, including: budgeting, net earnings, checkbooks, credit cards, loans, taxes, insurance, and automobile costs. **This course fulfills the Financial Literacy Graduation Requirement**

MATH / PHYSICS

Prerequisites: Algebra I and Geometry I
Full year, 2 periods per day
Credits: 2 for full year -- 1 math and 1 science
1 for half year – ½ math and ½ science

What do rockets and roller coasters have to do with math and physics? Plenty!!! Juniors and Seniors are invited to join this 2 period course that will explore areas such as motion, gravity and energy, along with sound, light, and magnetism. Throw in some trigonometry, statistics, and vectors and you'll soon discover how much fun math and science can be!! Students will be required to enroll in both the Physics and the Math portions of this course.

MUSIC

SENIOR HIGH CHOIR

Prerequisite: None
Full year

Senior High Choir is open to all interested high school students. Each choir member must have a mature interest in music and a desire to benefit from the experience of cooperation with others for the good of the organization. Fundamentals of good singing, elements of music, music history, and musicianship will be stressed. Clinics and contests are parts of the curriculum. From the main concert choir there shall be outgrowths, such as Vocal Jazz Ensemble (Jazz Choir), small ensembles, and solos that could be performed at competitive levels. Choir meets five periods per week and 1 credit is awarded for each full year of participation.

MUSIC THEORY

Prerequisite/s: None
Full year

Music Theory is open to students in grades 9-12. The purpose of this course is to provide the student with study of patterns of music. This course will cover learning notes on the staff, recognizing key signatures, analyzing chords, and listening to and analyzing a wide variety of music, as well as composing your own pieces of music. Hands-on piano skills will be learned regardless of previous piano experience. Music Theory II, III, IV may be taken as independent studies for students who are interested in pursuing a career in music. Music Theory IV is an arranging and composition class.

SENIOR HIGH INSTRUMENTAL MUSIC AND BAND

Prerequisite: Grade Level 9-12
Full year

At this level of musicianship, students will be mastering their instruments and learning more challenging literature. Marching Band and Pep Band are also extra additions in this band. Performances include: 3-4 parades (including the Bangor Fun Daze parade in August), Pep Bands: 3 Volleyball, 5 Football, 3 Boy's Basketball, and 3 Girl's Basketball (Added extras: Regional Games & Wrestling). Required Concert Performances: Veteran's Day Program, Memorial Day Program, Graduation, Harvestfest, winter concert, Solo and Ensemble, Pops concert and the Spring Concert.

MUSIC APPRECIATION

Prerequisite: 9^{th}-12^{th} grade
1 Semester

This class is for any and all music lovers. No music note reading or ability to play an instrument needed! In Music Appreciation, students will explore how music is connected to who we are and what we do. Students will discover the importance of music throughout history through the study of different cultures, music theatre, political and social movements, music in film and television. Other topics to be explored include careers and technology in music. Possible field trips include local music theatre performances.

PHYSICAL EDUCATION

FITNESS & WELLNESS

Prerequisite: 9th and 10th grade (Must be taken during 9th or 10th grade.)
1 Semester

Course description:
This course is designed for students to increase their knowledge about fitness and wellness. We will be exploring the health related fitness topics of muscular fitness, muscular endurance, flexibility, cardiovascular fitness and body composition. We will also address goal setting for physical fitness and how to develop a total personal fitness program.

Fitness & Wellness will explore these topics in the gym and in the classroom setting.

TEAM SPORTS & LIFETIME ACTIVITIES

Prerequisites: Students in 11th or 12th grade that have completed Fitness & Wellness
1 Semester

Course description:
This course will explore a variety of team and individual sports, as well as lifetime activities like angling and hiking.

Students will participate in a variety of sports and be graded on class participation, attitude, cooperation and their knowledge of sports (tests). Any person who appreciates and/or is involved in athletics will enjoy this course.

STRENGTH TRAINING

Prerequisites: 9th-12th grade
1 Semester

Course description:
This course will introduce the following topics:

- Muscular strength and endurance
- Myths about weight training
- Muscle fiber composition
- Methods of developing muscular fitness
- Application of training principals
- Goal setting for abdominal strength and endurance
- Goal setting for upper body strength
- Weight training considerations
- Muscular fitness exercises

The student will be using the weight room facility along with informational packets and videos. Class participation, homework, attitude, cooperation, and improvement of muscular fitness level and knowledge of information will determine grades. Students will be responsible for designing and implementing their own muscular fitness plan.

LIFETIME FITNESS

Prerequisites: 9th-12th grade
1 Semester

This class is designed for students who want to workout, sweat, improve their fitness level, increase their knowledge about diet and exercise and have fun with fitness. Included in the semester:

- Body composition testing
- Fitness testing
- Low impact aerobics
- High impact aerobics
- Kick boxing,
- Zumba
- Pedometers and Heart rate monitors
- Toning workouts
- Weight lifting,
- Biking
- Rollerblading,
- A variety of lifetime sports.

TOTAL BODY FITNESS

Prerequisites: 10th-12th grade
1 Semester

This course is designed for students that want to learn how to be fit for a lifetime. Students will design a muscular strength and endurance program that ties to personal goals they intend to improve for the semester. Students will also write goals to improve their cardiovascular endurance. Class learning targets and assessments will focus on the health related fitness components and the HELP philosophy.
H=Health, E=Everyone, L=Lifetime, P=Personal.

PHYSICAL EDUCATION ASSISTANT

Prerequisites:

- Students must have at least 1 credit of Physical Education
- Pre-Approval by a Physical Education Instructor
- 11^{th} or 12^{th} grade
- Computer Skills
- Organizational Skills
- Enjoy physical activity

1 Semester

Students will assist supervising teacher with attendance, fitness testing, daily activities, computer data, bulletin boards, equipment, and other duties.

SCIENCE

SCIENCE LAB ASSISSTANT

Prerequisite: Junior or Senior Standing
1 semester

Students will assist the science department with lab preparation, including mixing solutions, dividing materials, distributing materials, and lab cleanup.

PHYSICAL SCIENCE

Prerequisite: None (Freshman requirement)
Full year

Students will explore the fascinating world of Physical Science, which is the study of matter and energy and how it relates to the world around us. Physical Science is a combination of two branches of science---Chemistry and Physics. Chemistry is the study of the properties, composition, structure, and interactions of matter at the atomic level. Physics is the study of the relationship between matter, energy and motion.

BIOLOGY

Prerequisite: Sophomore standing (Sophomore requirement)
Full year

This is a lab-based course, which is designed to expose the students to the major themes of biology. We will begin with a unit on environmental science. We will then describe the chemicals found in living things and build up to how the representative organisms interact with each other and their environment as well as devoting a significant amount of time studying genetics

ANATOMY & PHYSIOLOGY

Prerequisite: Junior or senior standing and Biology
Full year

Advanced Biology is aimed at the student with a possible career interest in nursing, biochemistry, medicine or some other biological areas. The primary focus of this class will be on anatomy and physiology. Several dissections will be performed in order to study the various systems of the body.

APPLIED SCIENCE

Prerequisite: Junior or senior standing
Full year

This class is for juniors and seniors who have not taken chemistry, physics or anatomy & physiology. ***If you have taken one of the other science courses listed and you still wish to take applied science, you must get permission from the instructor.*** This course will apply science to the real world by including a biological stream study, mapping using GPS units and various activities that demonstrate proper laboratory techniques.

CHEMISTRY I

Prerequisite: Algebra I
Full year

Chemistry involves a study of basic chemical principles. Laboratory exercises provide an opportunity to use scientific equipment and to develop skills of measurement, observation and problem solving. Topics include atomic structure, the periodic table, moles, stoichiometry, chemical equations, acids and bases. This course is recommended for students planning to attend college or technical college.

CHEMISTRY II

Prerequisite: Chemistry I
1 semester

Chemistry II will involve a study of basic chemical principles. Laboratory experiments will further develop proper laboratory techniques. Topics include a more in-depth exploration of acids and bases as well as equilibriums, nuclear chemistry and basic organic nomenclature. This course is recommended for students planning to pursue a career in science or medical related fields.

PHYSICS

Prerequisite: Algebra I, *Senior standing or permission of instructor.*
Full year

Physics is both a hands on and a mathematical examination of our physical world. Topics of study include motion, optics, and sound. This course is recommended for students planning to attend college or technical college.

PHYSICS/MATH

Prerequisite: Algebra 1 & Geometry
Course Length: Full year-- 2 periods per day
Credits: 2 for full year -- 1 math and 1 science

What do rockets and roller coasters have to do with math and physics? Plenty!!! Seniors are invited to join this 2 period course that will explore areas such as motion, gravity and energy, along with sound, light, and magnetism. Throw in some trigonometry, statistics, and vectors and you'll soon discover how much fun math and science can be!! Students will be required to enroll in both the Physics and the Math portions of this course.

MEDICAL TERMINOLOGY (WVS Online)

Prerequisite: Biology
1 Semester

Focuses on the component parts of medical terms: prefixes, suffixes, and root words. Students practice formation, analysis, and reconstruction of terms with an emphasis on spelling, definition, and pronunciation. This course is an introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

SOCIAL STUDIES

U.S. HISTORY

Required Course
Prerequisite: Freshman Requirement
Full year

U.S. History II is a survey of American history from post-Reconstruction to the dawn of the 21st century. Major topics include the following: imperialism, the Progressive Era, WWI, WWII, the changing 1920s, the Great Depression, the New Deal, the Cold War Era, Civil Rights, Vietnam War, the conservative politics of the 1980s, and various modern-day issues. Specific skills to be utilized: reading and researching, primary source analysis, vocabulary and writing related to subject matter, individual and small group work, hands-on projects, and relating the past to the present. Participation in National History Day may be an expected requirement for the course as well.

WORLD HISTORY

Required Course
Prerequisite: Sophomore Requirement
Full year

This class is a survey covering pre-history to the Twentieth Century. During the course of our study, we will cover the major events of history as well as the political, social, and cultural impact of those events. Some of the topics we will cover include: Early Humans, Early Civilizations, Ancient Egypt, Ancient Greece, Ancient Rome, the Early Civilizations of the Americas, the Middle Ages, the Renaissance, the Reformation, World Exploration, the Industrial Revolution, World Wars I & II, the Cold War, and the Modern World. Participation in National History Day may be an expected requirement for the course as well.

PSYCHOLOGY I

Prerequisite: Junior or Senior standing or Sophomore standing with a 3.5 average in English and Social Studies
1 Semester

Psychology is the scientific study of human behavior and the body. The class is designed to help students gain a better understanding of their own behavior, the behavior of others, and to gain an appreciation for the similarities and differences in people. Some of the topics covered include the following: body systems, perception, learning, thinking, memory, intelligence, and abnormal behavior. Specific skills to be utilized are research, experimentation, and observation, reading for new information, introspection, and small group interaction.

PSYCHOLOGY II

Prerequisite: Psychology I
1 Semester

Building off of the principles learned in Psychology I, Psychology II students learn more about the factors that influence human behavior. Topics covered include the following: human development over the lifespan, the nature of motivation and emotion, the study of personality, and theories surrounding gender roles.

ECONOMICS

Required Course
Prerequisite: Senior requirement
1 Semester

This course deals with basic economic principles by examining current and past examples of economic doctrines at work. Emphasized topics include the role and workings of the market in modern capitalistic economies and how other market systems work as well.

U.S. GOVERNMENT

Required Course
Prerequisite: Senior requirement
1 Semester

Political Science is the study of government, power and politics. The study of political science involves studying how countries are ruled, how people are ruled, and how the power of the people influences government. This course will deal with governments, power, political systems and ideologies. We will study the levels of political organization within the United States. We will take an in depth look at the roles and powers of the national government and bureaucracy. Along with the study of the inter-workings of government, we will look at the influence politics has over personal liberties, civil liberties, the economy, social programs, and national security. We will also study the roles of citizens within our political system. We will look at the importance of individual and group involvement in the democratic system of government.

SOCIOLOGY

Prerequisite: Junior or Senior standing or Sophomore with a 3.5 in English and Social Studies Classes
1 Semester

Sociology is the study and understanding of people in groups. This class is designed to foster an appreciation of the relationships of different people and groups within society. In this course we will study how people interact in groups, how people are socialized, the roles of people within groups and society, and the societal institutions that play a role in people's lives and interactions. This course will consist of a variety of in class activities, out of class research, a variety of experiments. Through these activities you will be more aware of our social institutions and your roll within groups and society as a whole.

AP U.S HISTORY (WVS Online)

Prerequisite: Junior or Senior standing. Students should also have a B average in social studies or permission from the instructor
Full Year

Learn about United States history from the Colonial Era to present day while preparing for the College Board Advanced Placement exam in the spring. AP U.S. History helps students develop their critical thinking, analytical, and writing skills. The class prepares students for intermediate college courses and develops the skills students will need to thrive in college. Some summer reading may be required.

TECHNOLOGY EDUCATION

TECHNOLOGY SYSTEMS

Grade Level: 9-12
Full Year

This course is designed to allow students to experience areas of technology including: Construction, Manufacturing, Communication, Transportation, Manufacturing, Design, Measurement, and Materials. This will be done through a series of activities such as Model House, Bridge/Tower Construction, Mousetrap Cars, Bottle Rockets, CO2 Dragsters and much more. Technology Systems also acts as a great introductory course for future Technology Education classes.

WOOD MANUFACTORING I

Prerequisite: None
Full Year

This course is designed for those students interested in wood manufacturing. This course includes tool and machine safety, wood characteristics and use of adhesives. Students will learn machine operations, joint construction, basic furniture construction and proper ways to finish projects. Students will choose one of three project ideas to complete, using proper techniques learned during the class time.

ADVANCED WOOD MANUFACTORING

Prerequisite: Wood Manufacturing I
Full Year

Students are graded on attendance, attitude, participation, safety practices, projects, and assignment. This course is for students who enjoyed Wood Manufacturing I and would like to continue building their knowledge and skills in the area of woodworking. Safety, wood identification, wood joinery, tool and machine maintenance, Versa Laser operation, CNC router operation, and cabinetry will all be reviewed. Students will be required to complete two small mandatory projects and one individual project of their choice.

HOME & MAINTENANCE

Grade Offered: 10 – 12
Prerequisites: None
1 semester

Home Maintenance is a course designed to give students a working knowledge and appreciation of maintaining a residence. In this class, the students will engage in plumbing, electrical, basic construction, and floor and wall covering.

BASIC AUTO MAINTENANCE

Grade Offered: 10 – 12
Prerequisites: Access to Personal Motor Vehicle
1 semester

This course includes basic automotive maintenance. Some of the activities we will do include changing tail lights, installing wiper blades, replacing front headlights, changing a spare tire, and other practical car care maintenance. There will be assistance, so no student will need to work independently.

ENGINEERING DESIGN (Recommended for grades 10-11)

Prerequisite: Tech Systems
Full Year

In this class students will learn to use Computer Aided Design software programs such as Autocad LT, Solidworks and Chief Architect. The students will apply their software knowledge to various drawing and design situations and problems. After a computer hardware/software orientation, the students will learn to read and draw several types of technical drawings. This information will then be applied in the design process as students work individually and in groups on a number of design activities and problems. Students will play the role of professional architects, designers, planners, engineers, and draftsmen who create design solutions for client's problems.

MANUFACTURING / MATERIALS AND PROCESSES (Recommended for grades 10-11)

Prerequisite: Tech Systems
Full Year

(Semester 1)
Manufacturing Systems will explore the use of various materials to produce usable products. The major categories of materials, processes, and modern production methods will be reviewed and reinforced. Students will choose a product to be manufactured, develop a prototype, form a company, construct the fixtures needed for mass production, and produce the product using concepts of modern production.
(Semester 2)
Students enrolled in Materials and processes will work in the areas of woods, metal fabrication and welding. Students will work on their own projects as well as class assigned projects.

ADVANCED ENGINEERING (Recommended for grades 11-12)

Prerequisite: 2 credits of technology education
Full Year

Students will design and build a major project. One example of this is the High Mileage Vehicle Project. Every year schools from around the state compete to build a fuel-efficient vehicle. The students design, build, fabricate, weld, and assemble the car based on their group design. Currently the plan is to continue with this project for the year ahead.
Admission Requirements: Class size is limited to 10 students. Students must have at least 2 credits of Technology Education. If more than 10 students apply, admission will be granted based on grades received in Technology Education and an application for admittance.

WELDING - WTC Transcripted Credit (Recommended for grades 10-11)

Prerequisite: Tech Systems
1 semester

This course will cover welding safety, oxy-fuel cutting, plasma cutting, gas metal arc welding, and carbon air arc cutting. Students will receive 2 credits from Western College. Western College grading scale and policies will apply.

TUTORING

High School Helpers/Mentors

This class is for students that like working with elementary aged children, or are interested in finding out more about elementary education. There are different roles you will be playing ranging from tutoring K-5 students, doing various tasks for your supervising teacher, or just spending time with students as a positive role model. We require you to have at least a C grade point average. There are a limited number of openings.

Middle School/ High School Tutor

Students may contract to receive credit for tutoring at the middle school or secondary level. Students will generally receive 1/4 credit per semester on a Pass-Fail basis.

Tutoring is generally used to fulfill the Community Service graduation requirement. Please see the Community Service supervisors (Mr. Lueck & Mrs. Horstman at time of publication) to make arrangements.

SCHOOL-TO-WORK

Work Experience

Prerequisite: Junior or Senior standing (On Track to Graduate)
1 Semester

Earn elective credits for your job. Students who enroll in Work Experience will be granted time to leave school to go to work at an approved site. Students will be working towards the completion of State Employability certificate. Students will need to be evaluated by their employer two times a semester and the instructor will also visit and observe the student at work. Documentation of experiences will occur on a weekly basis.

ONLINE A.P. COURSES

Advanced Placement Courses

Aventa Learning and WVS have teamed up to provide online AP® courses for Wisconsin Schools. The cost is $325 per semester course (per student). Wisconsin certified teachers will facilitate the courses, and a 24 x 7 help desk will be available also. Any required textbooks will not be included, and must be procured by the sponsoring district.

These courses are equivalent to undergraduate level college courses and will prepare students for the College Board examinations given in the Spring.

All courses are yearlong, divided into two semesters, unless marked with a *.
The following courses may be offered:

AP® Macroeconomics*
AP® Calculus AB
AP® Microeconomics*
AP® Calculus BC
AP® English Language
AP® Psychology*
AP® English Literature
AP® Spanish Language
AP® Spanish Literature
AP® European History
AP® Statistics
AP® US Government & Politics*
AP® US History
AP® World History

Requirements and Scheduling:

Students taking Online Courses must have a 3.00 overall GPA and a 3.5 GPA and teacher recommendation in the subject area of the selected AP course. Students enrolling in online courses should be able to work well independently. Taking an online AP course requires 10 to 15 hours a week. Other courses require 10 hours or fewer. Students should have a regular class period reserved for online coursework and access to a computer at school.

Recommended Preparation
In general, students should be self-motivated and good independent learners. Good writing skills are important to a student's ability to succeed in an AP course, and essay writing is important to do well on the free-response sections of an AP Exam. Students should have basic keyboarding skills and be comfortable with getting online, using email, and using a word processor.

WVS AP Course Descriptions

AP® Calculus AB

This is the beginning course in the college calculus sequence. Students will cover analytic geometry, functions, limits, continuity, the derivative and its applications, the integral and its applications. Textbook Required.
Textbook purchases can be made at VarsityBooks.com

AP® Calculus BC

This course introduces and explores integral calculus and explores further topics in differential and integral calculus. Topics include parametric equations, Riemann sums, indefinite integrals, applications of integration, formal development of limits and derivatives, power series, and simple differential equations. Textbook Required.
Textbook purchases can be made at VarsityBooks.com

AP® English Language

This advanced course focuses on reading and analyzing non-fiction prose, with an emphasis on philosophy. Written assignments focus on philosophical topics, which include ethics, knowledge and thought, the problem of truth, causality, metaphysics, political philosophy, and aesthetics. Textbook Required.
Textbook purchases can be made at VarsityBooks.com

AP® English Literature

In this advanced placement course, students learn to read and comprehend some of the finest poetry, plays, novels, short stories, and essays written at various times in various cultures, with an emphasis on literature originally written in English. Through reading and writing, students learn how to discover meaning in literature by being attentive to language, image, character, action, argument, and the various techniques and strategies authors use to evoke emotional response from readers. This course prepares students for the AP Literature and Composition exam. Textbook Required.
Textbook purchases can be made at VarsityBooks.com

AP® European History

This course is a study of the social, economic, cultural, intellectual, political and diplomatic history of Modern Europe and its place in the history of the world from the fall of Constantinople to the fall of the Berlin wall and the Soviet Union. The course objective is to develop an understanding of the major periods, ideas, movements, trends, and themes that characterize European history from approximately 1450-the high Renaissance-to the present. Students develop the ability to analyze historical evidence and express understanding and analysis in writing. The course will be taught at a level and rigor equivalent to that required of students in a college freshman or sophomore Modern European History course. Textbook Required.
Textbook purchases can be made at VarsityBooks.com

AP® Macroeconomics (semester course)

This course gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. The central topics of national income and price determination, economic growth, government taxation, regulatory policy, and expenditures; fiscal and monetary policy; and international trade are covered.
Textbook Required.
Textbook purchases can be made at VarsityBooks.com

AP® Microeconomics (semester course)

This course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, in the larger economic system.
Textbook Required.
Textbook purchases can be made at VarsityBooks.com

AP® Psychology (semester course)

AP Psychology provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They'll study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of a 100-level college survey course, AP Psychology prepares students for the AP Exam and for further studies in psychology and life sciences.
Textbook Required
Textbook purchases can be made at Varsity Books.com

AP® Spanish Language

AP Spanish Language students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, the two-semester AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture, or literature. No textbook required.

AP® Spanish Literature (New!)

AP Spanish Literature introduces students to the diverse literature written in Spanish and thus helps them reflect on the voices, cultures and experiences in the Spanish language. The equivalent of a college-level Spanish literature course, AP Spanish Literature prepares students for the AP Exam and for further study of Spanish culture and literature.
Textbook Required.
Textbook purchases can be made at Varsity Books.com

AP® Statistics

AP Statistics is equivalent to an introductory college level statistics course. Students are introduced to the major concepts of collecting, organizing, and drawing conclusions from data. Students will study four broad areas of introductory statistics: Organizing Data, Producing Data, Probability, and Inference. Prospective students should have completed a second year of high school algebra and possess a mathematical maturity that includes quantitative reasoning. Students also should have writing skills that allow them to express answers clearly and succinctly. Textbook Required.
Textbook purchases can be made at Varsity Books.com

AP® US Government & Politics (semester course)

Students acquire an analytical perspective on government and politics in the United States. Included are both a study of the general concepts used to interpret US politics and the analysis of specific examples. Textbook Required.
Textbook purchases can be made at Varsity Books.com

AP® US History

This college-level course explores the history of the United States from the first European explorations of the Americas to present day events and trends. Students examine political institutions and behavior, public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. Textbook Required.
Textbook purchases can be made at Varsity Books.com

AP® World History

AP World History covers the history of the world from 600 C.E. to the present with an introduction unit on the period before (covering around 8000 B.C.E to 600 C.E.). The course emphasizes "patterns of change" and the connections between the various world cultures throughout the time period being studied. Students will gain an understanding of the global experiences of humanity and be able to apply that knowledge to their growth and development as "world citizens".
The class has two major goals: 1) to prepare students to be successful on the AP World History exam and 2) to provide students with an understanding on why the world developed the way it did. Textbook Required.