

Bowler High School

Course Descriptions

2014 – 2015

"We provide access to success in an everchanging world"

School District of Bowler
500 South Almon Road
Bowler, Wisconsin 54416

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Course offerings are subject to change depending upon sufficient enrollment numbers.

Course Descriptions

Natural Science

General Science - This course introduces students to physical science. Students will learn the basic principles of chemistry and physics. Topics studied include: classification of matter, atoms and compounds, the periodic table, chemical reactions, heat energy, forces of motion and nuclear reactions.

1 credit

Required course

Biology I - This full-year course covers the processes of life. Units studied include: the scientific method, classification, cytology, animal and plant systems, genetics, viruses, bacteria, fungi, ethology and ecology. Lab activities are included with each unit covered, including a frog dissection.

1 credit

Required course

Chemistry - A course which deals with the structure and composition of substances, the changes in composition, and the mechanisms by which these changes occur. Lab activities are organized so students can observe chemical reactions and changes. Chemistry will be offered in the 2015-2016 school year.

1 credit

Prerequisite: Algebra I, 1 year of science (B average and/or approval of instructor)

College Chemistry - A step up on the course of Chemistry, which deals with the structure and composition of substances, the changes in composition, and the mechanisms by which these changes occur. Lab activities are organized so students can observe chemical reactions and changes. Students will also be taught how to manage, set up and use chemicals for general science labs. Subjects in chemistry will be re-examined in depth for those that want to enter college with a better understanding and practice of Chemistry Labs. College Chemistry is offered only to students who have had Chemistry 1. Pending number of requests and school board approval.

1 credit

Prerequisite: Algebra I, 1 year of Chemistry 1 (B average and/or approval of instructor)

Physics - The mathematical approach to the study and analysis of natural phenomena. Some of the areas to be studied include: light, sound, electricity, force and momentum. Students will participate in a bridge building and egg-dropping contest during the year as a special project. Mathematics is a very useful tool that must be mastered before a student attempts to take a course in physics. Because of the importance of math, a student must complete two years of high school math with a B average or higher. Physics is offered alternating years with Chemistry.

1 credit

Prerequisite: Algebra I, 1 year of science (B average or approval of instructor)

Advanced physics: Modern Physics - Students will be continuing in the study of particle physics and modern day Physics ranging from Hawking's, Newton's and Einstein's theories of space, time, and matter along with the mathematical demonstrations of each scientist. Quantum physics and construction of the big bang will also be discussed and developed in theory. Must have taken physics with a B average along with a mastery of algebra. Mathematics is a very useful tool that must be mastered before a student attempts to take a course in physics. Because of the importance of math, a student must complete two years of high school math with a B average or higher. Advanced Physics will be offered in the 2015-2016 school year.

1 credit

Prerequisite: Algebra I, 1 year of science Physics (B average and approval of instructor)

Ecology - This course investigates human values as they relate to the environment. Students make judgments on how they can create a better quality environment for all citizens. A variety of instructional methods are used including: small group discussion, outdoor activities, individual projects and multi-texts. May not be accepted by colleges for science credit.

1 credit

Grade level: 11-12

Body, Structure & Function - A full-year study in the structures and functions of the human body systems. Units studied include basic biochemistry, cytology, histology and twelve systems of the human body. Several animal dissections are part of the lab component, including the dog shark, white rat and domestic cat. Organ dissections of the heart, kidney, liver, lung and brain are also presented. A live knee replacement surgery is presented through the COSI program. This course would be of special interest to students interested in health and animal sciences. It is offered as Transcribed Credit through the NTC campus in Wausau.

3 transcribed college credits and 1 high school credit

Grade level: 11-12

Medical Terminology - Focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology. This is a transcribed course through NTC.

.75 credit

Grade level: 11,12

Mathematics

Algebra I - One year math course which continues the study of mathematics from 8th grade. The basic skills are applied to the study of equations and inequalities. Graphing relations are also studied. This course may be required for college or technical school entrance.

1 credit

Pre-Algebra - This course is an extension of Math 8 and is designed to strengthen basic math concepts and to prepare the student for Algebra I. Simplification of monomials and the use of formulas will be stressed.

1 credit

Geometry - A math course which involves the study of our two and three dimensional world. Basic topics covered are parallel lines, triangles, quadrilaterals, circles, area and volumes. This course is also needed for entrance into college and suggested for technical school. It could be taken concurrently with Algebra II.

1 credit

Prerequisite: Algebra I

Algebra II - A continuation of Algebra I and Geometry. It reviews all topics covered in Algebra I and expands them to include quadratic functions, conics, progressions and some trigonometry. This course is necessary for any science or business related college or technical school majors. It could be taken concurrently with Pre-Calculus.

1 credit

Prerequisite: Algebra I, Geometry

Pre-Calculus - A combination of trigonometry, analytical geometry, advanced algebra and probability.

1 credit

Prerequisite: Algebra II (B average or approval of instructor)

Calculus - This is a college level course designed to prepare the student for the rigors of a college course. It is the same concepts that College Calculus I incorporates. The difference is that this class will be one year long whereas the college offering is done in one semester. Also, if a student desires, they may take this class for AP credit and take the AP test in May to try to earn college credit.

1 credit

Prerequisite: Pre-calculus and consent of instructor

Business Math - Students will learn real life math skills such as reconciliation of bank statements, discounts, commission, interest, taxes, investing and loans with an emphasis on personal finance. This elective class can be taken concurrently with any math class.

1 credit

Preference given to 11th & 12th graders

LEGO Robotics I - You will progress through activities designed to teach programming and more, while analyzing data obtained from sensors. Each of the six projects begins with a robotics research prototype in which you are guided step-by-step through the building and programming of a new robot behavior. Afterwards, you follow up your prototype work with a robotics investigation where you experiment with the robot's motors, sensors, and programming to learn how robots really work. For the more advanced students, they will learn engineering as they continually develop solutions to robotic challenges currently found in agriculture, security, and energy. They have a chance to solve the same problems that today's scientists and engineers are facing. We will also be working with a program called Vixen. This program allows users to program lights to run to music.

Prerequisite: completion of Algebra I and Geometry

½ credit

Grade level: 9-12

LEGO Robotics II - Students will expand on the information learned in the first Robotics course.

Prerequisite: Lego Robotics I

½ credit

Grade Level: 9-12

Desktop Publishing (for transcribed credit) - This course provides an introduction to desktop publishing where professional-quality documents for personal and business use will be produced. You will use desktop publishing software to create and edit flyers, newsletters, brochures, logos, calendars, and Web pages. This course will be offered as Transcribed Credit. See the description about Transcribed Credit for more information.

½ credit

Grade Level: 10-12

English

English I - An introductory course in literature and writing. Students will concentrate on reading, understanding, and analyzing samples from the short story, novel, poetry, communication, and drama. A study of usage, grammar, and composition will help develop writing techniques.

1 credit

Required course

English II – This course is an expansion of the skills of English I, with an emphasis on literary techniques and thematic essays. Literature survey will cover the novel, drama, poetry, general fiction, and non-fiction. Composition and speech are combined with reading, research, and writing skills.

1 credit

Required course

English III - A course that concentrates upon American literature through reading fiction, non-fiction, poetry, and drama. Oral communication through discussions and individual speeches and written communication through composition, including a series of expository essays, are emphasized. Effective on-line research and a written autobiography are also covered.

1 credit

Required course

English IV - This course reviews high school English skills and strengthens skills necessary for post-secondary success. A strong focus is placed on English literature, including the plays Hamlet and Macbeth. Other areas covered include an individual senior research project, resumes, and newspaper publishing.

1 credit

Required course

Social Science

World History - Survey course in the history of mankind. Through reading, lecture, map study, projects and movies, man's progress is traced from his first appearances on earth, his ancient civilizations in Europe, Asia, Africa and America. The focus of the course is on man and how he affected and was affected by the things that happened around him. The aim of the course is to provide a background and a relationship to the world today. Special emphasis is put upon those social, economic, and political forces that are apart of all of man's history - yesterday and today.

1 credit

Required course

Civics - This course is designed to instruct the basic ideas behind American Government and Democracy. A majority of the course will be spent studying the U.S. Constitution and the function 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, economics and advertising. Current events will be involved heavily in the instruction.

1/2 credit

Required course

U.S. History I - The history of America to the start of the American Civil War will be the topics discussed in this course. Special attention will be placed on the history of Native American cultures prior to European contact.

1/2 credit

Required course

U.S. History II and III - The history of the United States is a study of the historical development of the United States. 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. United States History II will cover the time period from the Civil War to the Great Depression. United States History III will cover the time period from World War II to the present.

1 credit

Required course

Social Problems - This course attempts to look at the following areas through lecture and discussions, movies, internet sources, etc.; your values and how to make decisions; problem solving; your role in the family and in school; your intelligence as a consumer and a citizen; your relationship to the law; a look at careers and goals; exploration of economics; tolerance; world religions; terrorism; current events, and US history 1950's to present.

1 credit

Required course

Human Behavior - Human Behavior is a social psychology course, which explores common factors, which stimulate a wide variety of human behaviors. Basically, it's a chance to gain an understanding of why we act the way we do, and why people react to us the way they do. Units of study will include: behavior, behavior modification, human nature, personality, gender relationships, child development, and behavioral disorders.

1/2 credit

Grade Level: 11,12

Industrial Technology

Automotive and Home Maintenance: The first nine weeks of this course provides students with an introduction to the automotive field. Students will learn how to take care of cars and trucks, about the basic components of a motor vehicle, its operation and the service required to sustain it safely. Safety and appropriate tool usage is stressed. The second nine weeks involves home maintenance. Home Repair and Maintenance is for those students interested in doing their own home maintenance and repair work. Students will learn the basic information and techniques necessary to use hand tools and various building materials required for routine repair and maintenance of a residential structure and its systems.

1/2 credit

Grade level 9-12; Class Limit: 10 students

Drafting/AutoCAD: This class is the study and application of the use of two-dimensional computer graphic systems. Emphasis will be placed on the necessary commands to create, edit, plot, and save architectural drawings. This is a transcribed class and upon successful completion of the course, the student can receive two credits from NorthCentral Technical College. This class and SketchUp will be offered every other year and will be offered in the 2015-2016 school year.

½ credit

Grade level 11-12; Class Limit: 10 students

Drafting/SketchUp8: Students will learn the basic tools that are used in the SketchUp program as well as to organize their drawings. This class provides training in using Google's SketchUp, which is a program that can be used to design and visualize a building before it is built. The class provides instruction in creating realistic computer models that can be used to create full color renderings and animations as well as importing and exporting to AutoCAD for construction drawings. This is a transcribed class and upon successful completion of the course, the student can receive two credits from NorthCentral Technical College.

1/2 credit

Grade level 11-12; Class Limit: 10 students

Drafting/Revit: This course will introduce the student to Building Information Modeling (BIM) by using Autodesk Revit. Revit is a computer modeling program that allows for intelligent, 3D and parametric object-based design. The course introduces the student to the program by the use of tutorials and exercises that start at a very basic level and proceeds over the semester to create a complete set of construction documents. Topics covered include the creation of the model, working drawings, photorealistic rendering, and animations. The BIM model will also be used to explore energy use and sustainability options by the use of other third party software. This is a transcribed class and upon successful completion of the course, the student can receive two credits from NorthCentral Technical College. This class will be offered every other year and be offered in the 2014-2015 school year.

1 credit

Grade level 11-12; Class Limit: 10 students

Metals Technology: Students will learn how to use the tools, machines and processes in metal machining, welding and fabrication. The student will learn basic metal working and develop attitudes and habits necessary for working safely and effectively in this environment. Students will also have the opportunity to explore and investigate career and occupational options.

½ credit

Grade Level 9-12; Class Limit: 10 students

Welding: This course highlights the similarities in equipment and technique between the major arc welding processes. Students complete introductory level competencies in the SMAW, GMAW, FCAW, and GTAW processes. Material preparation skills include shearing, sawing, grinding, and thermal cutting. This is a transcribed class and upon successful completion of the course, juniors and seniors can receive two credits from NorthCentral Technical College.

½ credit

Grade Level 9-12; Class Limit: 10 students

Small Gasoline Engines: This class is designed to provide students with practical information about small gasoline engine theory, construction, operation, lubrication, maintenance, troubleshooting, service, rebuilding, and repair. Students are encouraged to bring in a small engine that is in need of repair.

½ credit

Grade level 9-12; Class Limit: 10 students

Woods I/Construction: Students will learn a basic level of skill and knowledge in the shop and tool safety. Learning to understand working drawings, students will apply their learning on woodworking projects. They will demonstrate hand and machine tool skills, woodworking joinery, gluing and clamping, and finishing techniques while completing their individualized projects. Students will also learn about careers in woodworking construction. Second semester in Construction students will gain knowledge and skills specific to those needed to enter the work force or prepare for a post secondary degree in the construction, architecture, or engineering field. Students will acquire knowledge and skills in safety, tool and machine usage, building materials, and framing.

1 credit

Grade Level 9-12; Class Limit: 10 students

Woods II: This course is for students interested in continuing their knowledge, understanding, and skills in woodworking. Woods II is an intermediate course intended to advance on the basic skills of Woods I. Additional machine use will be demonstrated as well as various gluing and fastening techniques. During the first quarter, students will be spending time learning CAD CAM Woods Technology, as it specifically applies to woodworking in industry. Students will be required to design, cut, and finish a sign for their CNC requirement. Each student is required to complete a minimum of two woodworking projects for the year. Students will also be responsible for graded lessons given throughout the year. One of these projects will be a required project by the instructor but it will be the student's design. Students are RESPONSIBLE for the cost of materials before they can take their projects home. This course may be available for college credit through NorthCentral Technical College.

1 credit

Grade Level 10-12; Class Limit: 10 students

Prerequisite: Completion of Woods I with a passing grade of "C" or higher.

Welding Art: Students receive instruction, practice and gain experience with: oxy/acetylene welding and cutting. Wire-feed welding (MIG); Shielded metal arc welding (SMAW); Tungsten inert gas welding (TIG); and plasma metal cutting. Individualized projects are an important element of this course.

½ credit

Grade Level 9-12; Class Limit: 10 students

Supermileage Vehicle Car Design, Engineering and Fabrication: *CATCH THIS CLASS IF YOU CAN!* Have you ever been interested in designing and building a racecar? How about driving one? Are you concerned with our nation's future energy supply and the impacts our energy use has on the environment? Then this class is for you. The main focus will be to design, build, modify, test and race a gasoline powered car called a Supermileage Vehicle. Activities in the class include drafting/design, advertising, fiscal responsibilities of the team, driving skills, mechanics, fabrication, welding, machining, road testing, research and design principals and other new technologies. Career connections include engineers, designers, electronics, electricians, automotive technicians, science related careers, mechanics, etc. Students may take this class more than one time. Students are responsible for the cost of the vehicle, travel (food and hotel), and entry fees. These costs can be offset by attainment of sponsorships.

1 credit

Grade Level 10-12; Class Limit: 12 students

Prerequisite: Completion of Metals I or Welding or Drafting with a passing semester grade of "C" or higher. Have been a member of the SMV club in the past.

Agriculture

Wildlife/Natural Resources Conservation (formally Intro to Ag) is a course that includes the following areas of instruction: apiculture(study of bees), deer hunting, wildlife management, bear safety/identification, wolves, owls, Wisconsin fish, water conservation, soil conservation, pollution control, tapping maple trees, and recycling. Activities include: deer antler scoring, WolfQuest interactive learning tool, pollution reaction models, tap maple trees, and recycling revamp.

1 credit

Grade Level: 9-12

Agriculture Sciences (formally Exploratory Ag)- units covered include: Plant Science- Principles of Plant Growth, propagation methods, soil science, Growth hormones, and gardening. Animal Science- units covered include: Care/Maintenance of Dairy, Beef, Equine, Poultry, Sheep, and Goats. Activities include: parts of flower interactive demo, leaf and stem cuttings, soil sampling/testing, udder dissection, ear notching demos, meat judging, plant/manage school garden.

1 credit

Grade Level: 10-12

Veterinary Science/Small Animal Care - Content includes: Animal reproduction, nutrition and evaluation. Small Animal Care- covers the choosing and care of animals- including nutrition and basic veterinary procedures (sutures/injections). Activities include: judge and grading market animals, figuring rations for animals, orange injections, stuffed animal mending with sutures and demonstrate artificial insemination in a real female reproductive tract of a dairy animal and udder dissection.
(Recommended for animal lovers)

1/2 credit

Grade Level: 11-12

Food Science- is a course to teach the science behind food and food preservation. Food Knowledge: what's healthy and in your food is also highlighted. Units/Activities include: Roasting, Dehydration, Fermentation, Cold Processing, Dairy Processing, Canning- each unit has a food creation.

1/2 credit

Grade Level: 11-12

Forestry - Units include: Forest trail maintenance, identification of trees, forestry history, forest conservation, orientation, and land measurement. Activities include: pruning, tree id with dichotomous key, using a transit and compass, and plotting on map

1/2 credit

Grade Level: 12

Greenhouse Management- The title says it all students will apply for jobs, interview, receive their positions and begin to plan, plant, manage, sell bedding plants and vegetable seedlings. The class will be responsible for reevaluation of the greenhouse from the watering systems to flooring. Also students will redesign our pumpkin patch and manage it from seed to harvest.

1/2 credit

Grade Level: 11-12

Agribusiness/Leadership- Class will be focused around leadership in the FFA and Life! Students will lead and coordinate individual service projects, manage the concessions/milk machine (order the products, fill/staff, deposits, and record keeping of inventory, expenses, and profit. Leadership types and roles will be defined within each individual. Also resume creation, job applications, and mock interviews will prepare students for success after school. Also SAE , FFA Award applications, and scholarship essay writing activities and assistance with record keeping and filling out awards. We will work on teamwork, organization, and public speaking skills to ready the students to lead effectively and proudly into their futures.

1 credit

Grade Level: 10-12

Aquaponics- Aquaculture- the study of growing fish and the study of growing plants-Hydroponics combine in this class to create a living and producing man-made pond. The pond is self-sufficient and a constant cycle. Students will study the water testing, aquaculture, hydroponics, and also management of a pond ecosystem- to create plants and fish to harvest at the end of the school year.

1 credit

Grade Level: 11-12

Music

Band - Open to students who have studied an instrument prior to 9th grade. A wide variety of music covering all styles of music is presented. Performance of the highest degree of quality is worked for whether it be in marching, jazz, pep, or a concert band setting. One private lesson a week is required.

1 credit

Prerequisite: Consent of Instructor

Chorus - Introduces the student to a wide repertoire of songs ranging from the classical period through the modern day. The student will have a better understanding of proper vocal techniques and basic music theory as well as the opportunity to put into practice. The chorus participated in a fall musical, three annual concerts (including Christmas, Pops, Spring) and Solo/Ensemble contests. Swing choir is offered to choir members.

2/5 credit

Prerequisite: Audition

Art

Stained Glass - Students will learn the techniques to create stained glass art. They will gain experience in pattern design, glass cutting, construction, and soldering.

1/2 credit

Grade Level: 9-12

Painting – This class will help students develop technical skills and discover a personal style as they communicate effectively to an audience. Students will experience a variety of painting techniques and styles through class assignments and study of contemporary and historical art. This course will expand the student's knowledge of color and composition. Media may include acrylic, watercolor, and tempera paint. Work will be done both 2-D and 3-D.

1/2 credit

Grade Level: 9-12

Ceramics - Students will explore the various methods of working with clay: hand-building, slip-casting, and the potter's wheel. Students will also experiment with a variety of glazes and painting.

1/2 credit

Grade Level 9-12

Sculpture - Students will learn how to sculpt clay, stone, and wood. Other projects will involve paper, wire and plaster.

1/2 credit

Grade Level: 9-12

Drawing - Through this course, students will experience a variety of lessons designed to improve their drawing skills. Projects such as nature drawing, still life, figure drawing, perspective, book illustration, and cartooning will be explored.

1/2 credit

Grade Level: 9-12

Photoshop Image Manipulations- Students learn to use Adobe Photoshop for creation, adjustment, and manipulation of images for print and web. Special attention given to image manipulation techniques, color/tonal correction, resolution, and output issues. This course will be offered as Transcribed Credit.

1 credit

Grade Level: 11-12

Personal Health and Well Being Physical Education, Health and Safety

Physical Education I – In this course, students will be exposed to a wide variety of activities that will promote lifetime fitness and recreational opportunities. Students will learn the basic skills and scorekeeping of many activities like: basketball, golf, bowling, flag football, pickleball, archery, badminton, volleyball, softball, speedball, team handball and soccer.

1/2 credit

Grade Level 9

Required course

Physical Education II – Students will be expected to be more competitive and go more in depth than activities in Physical Education I. Students will have to pay some fees for off campus activities such as: golf, bowling and archery.

1/2 credit

Grade Level 10

Prerequisite: Physical Education I

Required course

BSF (Bigger, Stronger, Faster) - This elective course will emphasize the importance of athletics and becoming a bigger, stronger, faster, and more skilled athlete. Focus will be on football, volleyball, basketball, baseball, softball, and track & field. Weight lifting, Calisthenics and Pyrometrics will be incorporated into the unit. Cannot be used as Graduation Credit for Phy Ed.

½ credit

Grade Level: 11-12 Elective to fulfill ½ credit required

Aerobic Activities – Students will be exposed to a wide variety of aerobic activities such as: Zumba, aerobics, pilates, running, jump rope, yoga. Students interested in getting a good workout should take this class.

½ credit

Grade Level: 11-12 Elective to fulfill ½ credit required

Coaching/Officiating – Students will learn how to coach and officiate different sports, but not limited to: basketball, volleyball, softball, soccer, baseball, football, track & field. Students will have to write a practice plan for each sport and coach the sport. Students will also have to know the rules and officiate each sport. Students interested in coaching and officiating sports should take this class.

½ credit

Grade Level: 11-12 Elective to fulfill ½ credit required

Health - Deals with the nine systems of the body, sense organs, nutrition, dependency, physical fitness, social and mental health, safety, career services.

1/2 credit

Grade Level: 11

Required Course

Team Sports – In this course, students will only play team sports. Each unit will run around three weeks. Activities may include, but not limited to: volleyball, flag football, softball/baseball, basketball, soccer, ultimate Frisbee, team handball, speedball, La Crosse, broomball/floor hockey.

½ credit

Grade Level: 11-12 Elective to fulfill ½ credit required

Individual Sports – In this course, students will only play individual sports. Each unit will run around three weeks. Activities may include, but not limited to: Badminton, pickleball, tennis, golf, horseshoes, croquet, basketball (horse), bowling, archery, running, bocceball. There may be a small fee for this course.

½ credit

Grade Level: 11-12 Elective to fulfill ½ credit required

Foreign Language

Spanish I - Students will learn Spanish in its real-life context - giving students the skills to make friends, communicate, and to survive in the Spanish-speaking world. This course emphasizes the active involvement of the learner as they hear, speak, read, write, and experience the Spanish language and culture. Open to both college and non-college bound students

1 credit

Grade Level: 9-12

Spanish II - Second year Spanish continues and expands on the Spanish I program. Students will further develop language skills and cultural awareness in order to communicate effectively in Spanish. Recommended for all college bound students.

1 credit

Grade Level: 10, 11, 12

Prerequisite: Spanish I

Spanish III - Third year continues on from Spanish II. This course is recommended for all college bound students

1 credit

Grade Level: 11, 12

Prerequisite: Spanish II

Spanish IV - Independent study involves lots of reading, one memorized speech of 300 words, verb study and lots of time on the computer.

1 credit

Grade Level: 12

Prerequisite: Spanish III

Youth Apprenticeship

The Youth Apprenticeship program is a program geared towards helping students gain work experience and employability skills while still in high school. Students will find their own jobs and work at least 15 hours per week, including summers. This must be a paid position with a business. Students will also take one course related to their jobs per semester. These classes can be college courses or high school courses. Students must provide their own transportation to the work site.

1 credit

Grade Level: 11,12

GEDO#2

The GEDO#2 is a program that allows a credit deficient senior an alternative opportunity to obtain a traditional high school diploma. Students must be 17 years old, at least one year behind in credits, have a 9th grade Reading level and have a 7th grade Math level in order to be eligible to apply to the program. There are several components to the program: 1. Academics four GED tests (Reasoning through Language Arts, Mathematical Reasoning, Science, Social Studies) and five special units (Career Exploration, Job Seeking and Employability Skills, Technology Literacy, Personal Finance, Socio-Cultural Awareness) 2. Community Service /Employment or Job Shadowing (150 hours,) 3. Attendance (Flexible schedule with 90%, minimum requirement) and 4. Behavioral (all school rules apply plus any agreed upon and stated in the contract.)

College Options

Bowler School has three options for students to obtain college credit while still in high school. All college programs are offered to Juniors and Seniors only. See Mrs. Carlson for details about each program.

Learn and Earn- Students may take one free college course from College of the Menominee Nation. The Learn and Earn program is grant based and comes to students with no charge. Students may take up to three credits per semester and receive .25 high school credits per college credit earned. All students taking Learn and Earn must pre-register in the high school office to get credits for their course and must provide official transcripts when class is complete. Preapproval is required to get high school credit. All college credits are transferrable based upon the recommendation of the college you are transferring to.

Youth Options - Students enrolled in this free program through Northcentral Technical College (NTC) can earn .25 high school credit precollege credit earned. Students may not have any remedial course work to complete through Bowler School District. Applications for participation are due on October 1 for Spring and March 1 for Fall. All college credits are transferrable based upon the recommendation of the college you are transferring to.

Transcripted Credit - Students enrolled in this program earn college credit while attending courses at Bowler School. Students in this program do not leave campus to receive college credit. Students can earn .25 high school credit for each college credit earned. Courses are either semester or year-long courses. Once a student signs up for this course, it cannot be dropped. All college credits are transferrable based upon the recommendation of the college you are transferring to.

LANGUAGE ARTS:

American Literature
Grade Level: 11, 12

.5 Credit

1 Semester

Gresham

This class covers various eras of American literature. Students will read and discuss essays, short stories, and novels written by Americans from the Colonial period through the Contemporary period. Major projects include essays on works studied and group research projects and presentations.

Gothic Literature
Grade Level: 11, 12

.5 Credit

1 Semester

Gresham

This class focuses on the classic Gothic novels Dracula, Frankenstein, and Dr. Jekyll and Mr. Hyde and their influence on popular culture. It has a heavy emphasis on literature with a secondary focus on essay-writing skills.

MUSIC:

Music Theory & Composition
Grade Level:

.5 Credit

1 Semester

Clintonville

Try to imagine a world without music - can you do it? From the moment our alarm goes off in the morning playing music, to when our phone's ring tone goes off, to the hours we spend with iPods playing in our ears, we hear music all the time - it's everywhere. This class offers students a chance to examine music as an art or a language, providing a better understanding of the world of music we live in. Students will learn about the principles of music (intervals, chords, scales, rhythm) and use those principals to write music of their own. This course will help prepare students for further study in music either in high school or college. It is also open to ANY and ALL students who want to learn about music (*participation in other music classes or previous musical experience is NOT required*).

Music Appreciation
Grade Level:

.5 Credit

1 Semester

Marion

This class is for students who have an interest in music and would like to learn without the pressure of a performance-based ensemble. Students will review basic music reading, vocabulary, and form. Brief overview of the traditional western music historical periods, analyze current music trends and discuss their artistic value will be covered. We will also explore music of various cultures around the world.

MATHEMATICS:

AP Calculus AB	1 Credit	Full Year	Wittenberg-Birnamwood
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Grade Level: 11, 12

Prerequisite: "B" minimum in prior math courses leading to calculus. Algebra, Analytic Geometry, Trigonometry.

The course will focus on the requirements for taking the College Board AP Calculus AB exam. Students should have a good background in mathematics. Topics should include Algebra, Trigonometry, and Analytic Geometry. Students should also have knowledge of rectangular and polar coordinates, equations and graphs, lines, conic sections, and functions.

AP Probability and Statistics	1 Credit	Full Year	Wittenberg-Birnamwood
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This course is designed to introduce students to many of the topics that they will encounter in a college level course. This math elective should be considered by students that are serious about attending college or technical school. The topics include an introduction to probability and statistics, frequency distributions, displaying and describing data, probability and counting rules, discrete probability distributions, the normal distribution, confidence intervals, simulation, and game theory. (prerequisite: Three years math or instructor approval.

Trigonometry	1 Credit	Full Year	Tigerton
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*This is a blended class. Therefore, students will meet via ITV ½ time and online ½ time

Grade Level: 11, 12

It is strongly recommended that students have a B or better average in Algebra II and Geometry if they are to sign up for this course. This course includes the study of advanced techniques in equation solving, synthetic division, Remainder Theorem, Rational Root Theorem, along with the Complex Numbers. It also includes the study of conic sections, exponential and logarithmic functions, sequences and series, probability and statistics, and matrices and determinants. Approximately one (1) semester is devoted to trigonometric ratios, equations and identities, and circular functions. Anyone considering going into a math or science field in college should take this course. *Prerequisite – Algebra II and Geometry*

SCIENCE:

Biology 2 (The 5 Kingdoms)	.5 Credit	Semester	Gresham
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Grade level: 10-12

Biology II will be a journey through the Five Kingdoms of Life. Discussion will include Bacteria, Protists, Fungi, Plants, and Animals. This class will be discussion-based, with labs and much independent research. The class will end with a Comparative Vertebrate Anatomy Unit. *This is not an AP course.*

Prerequisite: Biology

