Butternut High School Course Handbook

Approved on February 21, 2022

2022-2023

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BUTTERNUT SCHOOL DISTRICT

Graduation Requirements-24 credits

English……..……4 Credits
English 9 (2 semesters)
English 10 (2 semesters)
Four semesters of English electives

Social Studies……..……3 Credits
Two semesters of Social Studies 9
Two semesters of Social Studies 10
Two semesters of Social Studies electives

Mathematics.....3 Credits
Six semesters of mathematics

Science ……...…… 3 Credits
Six semesters of science

Physical Education.....1.5 Credits
One semester of 9th grade physical education
Two additional semesters credits of different physical education electives completed over three years. **Note** that students wishing to take an additional .5 credit (semester course) in Math, Science, Social Studies, English or Health education may do so in lieu of .5 credit Physical Education if they participate in extra-curricular athletics.

Health……..……....0.5 Credit
One semester of health education which incorporates instruction in personal, family, community, and environmental health.

Consumer Economic……...…….…….....0.5 Credit
One semester of Consumer Economics.

Electives……8.5

Total Credit Requirements:……..……..... **24 Credits**
New: State of Wisconsin legislation requires students graduating after the 2018-2019 school year to have 3 credits of mathematics and 3 credits of science.

All students must complete 25 hours of supervised community service by the end of their four years of high school. All students must carry a minimum of 3 credits per semester and 6.5 credits each year.

College Preparatory Course Requirements

UW System College preparatory Course Requirements:

The range of courses offered at today's high schools is designed to prepare students with differing interests and abilities for a wide variety of life-after-high-school options. "College prep" courses are particularly appropriate for providing the academic background needed to succeed in a degree program at a college or university. A college preparatory program helps develop competence in four primary areas - English, mathematics, social studies and natural science. All University of Wisconsin System institutions require new freshmen to have completed a minimum of 17 high school credits. Thirteen of these credits must be "core college preparatory" from the following areas of study:

English	**4 Credits**
Mathematics	**3 Credits**
Natural Science	**3 Credits**
Social Science/History	**3 Credits**

In addition to the "core college preparatory" credits identified, students need to complete a minimum of four elective credits as follows:

> Electives: An additional 4 credits may be chosen from any of the above areas, foreign language, fine arts, computer science and other academic areas. **(Two years of a single foreign language are required for admission to UW-Eau Claire and UW-Madison, and strongly recommended at other UW System campuses.)** Some University of Wisconsin System institutions may also accept vocational courses for a portion of these 4 elective credits.

All students are encouraged to exceed the minimum number of college preparatory credits required for admission. Students who choose a rigorous high school curriculum (including senior year course work) tend to be more successful in college. Strong academic preparation for college helps to ensure success.

Though all UW System campuses require a minimum of 17 college preparatory credits, campus-specific college preparatory course requirements provide more detailed information by campus. Students should take the ACT / SAT in the spring of their junior year.

Private and Out-of-State College Requirements:

When considering private or out-of-state schools, students are urged to consult with their school counselor.
Students are required to take the ACT and if attending an out of state college may need to take the SAT in the spring of their junior year.

College Standardized Test Requirements:

Admissions offices require the ACT or SAT test results. Take the ACT or SAT in the spring of your junior year and have your scores sent to the campuses you are interested in attending. UW-Madison is the only UW campus to require the ACT writing test.

NCAA Requirements:

Students planning to participate in sports at the post-secondary level need to register with the NCAA Clearinghouse after completion of their junior year. Registration should be completed on-line at http://www.ncaaclearinghouse.org. Students are advised to include NCAA on your ACT/SAT registration form using code 9999. After registering, students should contact the Student Services secretary to have a copy of his/her transcript sent to the Clearinghouse.

Note: High school graduation requirements and the course requirements to play Division I or Division II sports in college differ. See your school counselor for specific information.

EARLY COLLEGE CREDIT PROGRAM

COST SHARING MODEL The Youth Options and Course Options programs will be replaced with the Early College Credit Program (ECCP) and the Start College Now Programs. A student in grades 9 through 12 attending a public school or a private school in the state will be permitted to enroll in a UW System institution, or a private, non-profit institution of higher education, to take one or more nonsectarian courses, for which the student may earn high school credit, post-secondary credit, or both. Students applying for admission to IHE courses must meet established deadline and qualification requirements as set by high school. Technical colleges are not included in the new ECCP. Under the ECCP, the costs of courses is shared among the institution of higher education (IHE), the school district or private school, the state, and in some cases, the student's family.

- The IHE shares in the cost by virtue of an allowable tuition charge.
- School districts and private schools will be responsible for making payment directly to the IHE within 30 days of the end of the semester, but will be eligible to receive state aid(reimbursement of expenditures) to offset its costs.

• Additionally, if the student is receiving just post-secondary credit for a course, the student's family is responsible for paying 25 percent of the allowable tuition charge, unless that payment would pose an undue financial burden on the student's family (as determined by the department). School boards and governing bodies of private schools will be responsible for establishing policy on the method for collecting the family's share of costs.

Note that a student's family cannot be charged for any portion of the allowable tuition amount if the student is earning high school credit as a result of enrolling in the course (even if the student earns both high school and post-secondary credit). Neither the IHE nor the school district or private school may charge a student any additional costs or fees. The Butternut School Board adopts a policy that limits to 18 (for an individual student) the total number of post-secondary credits for which it will pay under the ECCP (and attendance at a technical college).

STATE AID UNDER THE ECCP As noted above, school districts and private schools will be responsible for making payment to the IHE within 30 days after the end of the semester in which the students were enrolled in a course under the ECCP. Note that the ECCP also permits students to take courses at an IHE in the summer session.

School districts and private schools will also be responsible for reporting to the department costs incurred for courses taken by students under the ECCP, so that the department can calculate state aid. Each school district and private school will receive state aid in accordance with the cost-sharing mechanism provided for under Act 59, described in the table below.

Credit is earned for:	School District	State	Student	IHE
High School (even if postsecondary)	75%	25%	0%	Cost sharing through limit on allowable tuition charge
Postsecondary Only	25%	50%	25%	

*The course must not be comparable to one offered in the school district in which the student is enrolled.

^Via reimbursement to school district as aid disbursed by the department and from the student (where appropriate).

1. For a student who took a course for high school credit (even if also for postsecondary credit), 25 percent of the actual cost of tuition for the course**.

2. For a student who took a course for postsecondary credit only, 50 percent of the actual cost of tuition for the course**.

**Payments will be prorated if the state appropriation is insufficient to fully fund all eligible claims for reimbursements submitted by school districts and private schools.

Other **qualifying requirements for admission in to the ECCP will be a grade point average of 3.0 GPA, an attendance rate of at least 90% during high school, and no major disciplinary referrals.** The deadlines established for requesting and qualifying for ECCP are March 1 for the Fall Semester classes and October 1 for the Spring Semester classes as determined by the State of Wisconsin, DPI and the IHE. Deadlines for course selection will be set by the UW System institution, or a private, non-profit institution of higher education. Grade point qualification and discipline approval must receive administrative approval, prior to being reviewed and approved by the Butternut School Board. The 25% student portion of the cost for postsecondary credit will be paid to the school district at the time of registration.

Failure to attend or to complete an approved course with a "C" or better will result in the student being ineligible to take any other courses under the ECCP. Failure to attend or to complete an approved course with a "C" or better will result in the student and/or parent reimbursing the district for the cost of tuition and fees, prior to graduation.

This policy is subject to change based on state legislative action and or the Department of Public Instruction interpretation of legislative action/ or administrative rules.

Technical College Policy

ATTENDANCE AT TECHNICAL COLLEGE.

(a) Upon the pupil's request and with the written approval of the pupil's parent or guardian, any public school pupil who satisfies the following criteria may apply to attend a technical college for the purpose of taking one or more courses:

1. The pupil has completed the 10th grade.

2. The pupil is in good academic standing. Grade point average of 3.0 or greater in regular education classes with no major discipline issues, or truancy issues.

3. The pupil notifies the school board of the school district in which the pupil resides of his or her intent to attend a technical college under this subsection by March 1 if the pupil intends to enroll in the fall semester and by October 1 if the pupil intends to enroll in the spring semester.

4. The pupil is not a child at risk, as defined in s. 118.153 (1) (a).

5. The pupil is not ineligible under s. 118.55 (7t) (c) to participate in the program under this section **(am)** A school board may refuse to permit a pupil to attend a technical college under this subsection if the pupil is a child with a disability, as

defined in s. 115.76 (5), and the school board determines that the cost to the school district under par. (dm) would impose an undue financial burden on the school district.

(b) The technical college district board shall admit the pupil to the technical college if he or she meets the requirements and prerequisites of the course or courses for which he or she applied, except as follows:

1. The district board may admit a pupil to a course under this subsection only if there is space available in the course after admitting to the course all individuals applying for admission to the course who are not attending the technical college under this subsection.

2. The district board may reject an application from a pupil who has a record of disciplinary problems, as determined by the district board.

(c) If a child attends a technical college under this subsection, the technical college shall ensure that the child's educational program meets the high school graduation requirements under s. 118.33. At least 30 days before the beginning of the technical college semester in which the pupil will be enrolled, the school board of the school district in which the pupil resides shall notify the pupil, in writing, if a course in which the pupil will be enrolled does not meet the high school graduation requirements and whether the course is comparable to a course offered in the school district. If the pupil disagrees with the school board's decision regarding comparability of courses or satisfaction of high school graduation requirements, the pupil may appeal the school board's decision to the state superintendent within 30 days after the decision. The state superintendent's decision is final and is not subject to review under subch. III of ch. 227. The pupil is eligible to receive both high school and technical college credit for courses successfully completed at the technical college.

(d) Subject to s. 118.55 (7t), for each pupil attending a technical college under this subsection, the school board shall pay to the technical college district board, in 2 installments payable upon initial enrollment and at the end of the semester, for those courses taken for high school credit, an amount equal to the cost of tuition, course fees, and books that a pupil who is attending the technical college and who is a resident of this state would be charged, except that the school board is not responsible for payment for any courses that are comparable to courses offered in the school district. **(dm)** If a pupil who is attending a technical college under this subsection is a child with a disability, as defined in s. 115.76 (5), the payment under par. (d) shall be adjusted to reflect the cost of any special services required for the pupil.

(e) The school board of the school district in which the pupil resides is not responsible for transporting a pupil attending a technical college under this subsection to or from the technical college that the pupil is attending.

(f) A pupil taking a course at a technical college for high school credit under this subsection is not responsible for any portion of the tuition and fees for the course if the school board is required to pay the technical college for the course under par. (d).

Failure to attend or to complete an approved course with a "C" or better will result in the student being ineligible to take any other courses under the Technical College Policy. Failure to attend or to complete an approved course with a "C" or better will result in the student and/or parent reimbursing the district for the cost of tuition and fees, prior to graduation.

This policy is subject to change based on state legislative action and/or the Department of Public Instruction interpretation of legislative action/ or administrative rules.

Student Nondiscrimination Policy
Equal Education Opportunities

The School District of Butternut is committed and dedicated to the task of providing the best education possible for every child in the district for as long as the student can benefit from attendance and student's conduct is compatible with the welfare of the entire student body.

The right of the student to be admitted to school and to participate fully in curricular, extracurricular, student services, recreational or other programs or activities shall not be abridged or impaired because of a student's sex, race, national origin, ancestry, creed, color, religion, pregnancy, martial or parental status, sexual orientation or physical, mental, emotional or learning disability.

Complaints regarding the interpretation or application of this policy shall be referred to the district administrator and processed in accordance with established procedures.

Courses Offered

The following is a list of the courses offered at Butternut High School. Required courses are indicated by an asterisk (*). Following the course title are the grades that the course is

offered.

Art Courses

Introduction to Art Drawing	Painting
Sculpture	Pottery
Art Metal	Independent Study

Graphic Design/S.R.E. Design (Student Run Enterprise)

English Courses

*English 9	*English 10
American Literature	British Literature
World Literature	Creative Writing

Foreign Language

Spanish I	Spanish II		
German I	German II		
French I	French II	French III	French IV

Math Courses

*Algebra I	*Geometry
Algebra II	Technical Mathematics
Pre-Calculus	Calculus

Music Courses

Butternut Chorus
Butternut Band

Physical Education

*Grade 9 Physical Education
*Health 9
Weight Training
Fitness for Life
Team Sports/Team Games

Science Courses

*General Chemistry/Physics
*Biology
Science 9
Physics
Anatomy & Physiology-Medical Terminology (high school credit only)
Biotechnology (high school credit only)
Honors Chemistry
Field Biology

Forensic Science
Comparative Anatomy
Applied Botany- Work Experience (Student Run Enterprise)

Social Studies Courses * Required Courses

*World Civilizations
*United States History
*American Government
Current Events - 1/2 credit –
Street Law—1 credit/year
History and Development of Psychology

Technology Courses

General Technology
Advanced Technology
Applied Engineering
Metal Processing
Power & Energy
Woodworking
Industrial Enterprise Practicum/Manufacturing
Research & Development
Robotics--Engineering

Business Education

Accounting I
Accounting II
Consumer Economics
Entrepreneurship
Introduction to Business
The Business World
Introduction to Computer Aided Design
Advanced Computer Aided Design
Small Business Enterprise

Automated Accounting (Honors Class)
Yearbook

Promethean Charter School (approved Independent Study)

Child Development
Clothing and Sewing
Food and Nutrition
Music Appreciation
Creative Writing
Sign Language 1 and 2
See Director for Additional Options

Intro to Military Careers
Principles of Law, Public Safety, Corrections and Security Course 1 and 2
Psychology 1, 2 and 3
Intro to Criminology
Engineering and Technology

Supplemental Services

Work Study
Student Aides
College Study

BR²S

Respect, Responsibility, & Safety

ART DEPARTMENT

Intro to Art **.5 Credit/Semester** **Prerequisite for other art classes**

This is an introductory course. It emphasizes art concepts basic to all artistic endeavors. It focuses on the foundations in the elements and principles of design. The elements of art are:

Shape, Value, Texture, Color, Form, Line and Space. The Principals of Design are: Pattern, Balance, Movement, Contrast, Unity, Rhythm and Emphasis. Projects will reflect a bit of each art class offered at Butternut High School. Students will become familiar with drawing, painting and many shading and color processes associated with these mediums. Students will be critiquing their artwork. Throughout the course, skills are built in idea formation, grid thinking, and the use of perspective. Some study of art history is also included in this course.

Drawing .5 Credit/Semester Prerequisite: Into to Art

Students will experiment with a number of drawing mediums, including pencil, pen, ink wash, colored pencil, oil pastel, chalk pastel, charcoal, markers, scratchboard, and mixed media. Students learn to do open ended problem solving based on projects ranging from the figure, portraits and landscapes, to still life and abstractions. Linear perspective and art history are explored.

Painting .5 Credit/Semester Prerequisite: Into to Art

The emphasis will be to develop their technical painting skills in watercolor, oil, and acrylic paints. Students will explore a variety of traditional and non-traditional subject matter such as still life, landscape, portraits, including personal ideas, taste and styles. Students will continue to develop their compositional understanding by applying the Elements and Principles of Design to their sketches, drawings and final paintings. A variety of artists will be studied as students discover how they are relevant in art history and to the individual student's work.

Pottery .5 Credit/Semester Prerequisite: Into to Art

This class explores five of the most common ways pottery can be made. We begin with pinch, coil, and slab hand building techniques. We will also work with the drape or sling method, finally exploring wheel thrown pottery. Students will learn about various decorating techniques and operating the electric kiln. Students will learn to use language devoted to the study of ceramic arts.

Sculpture .5 Credit/Semester Prerequisite: Into to Art

Sculpture students will create 3-D artwork from a variety of materials ranging from paper, wire, plaster, clay, foam, wood and metal and found objects. Additive and subtractive techniques of

sculpting will be the focus for this course. Students will study the work of famous sculptors – past and present.

Graphic Design (Limit 5 Students; for 1 Semester) .5 Credit/Semester

Prerequisite: Into to Art

Graphic Design is the art of visual communication through two-dimensional works. Students considering a career in the design fields such as book design/ publishing, advertising, presentation design, packaging design, magazine layout, corporate design, motion graphics, animation or web design should enroll in this course. Students will apply their knowledge of the elements and principles of design to strengthen their visual literacy. We will explore a range of design techniques using various media and software programs and study the design work of contemporary and historical designers. Possible projects include symbol development, poster design, CD covers, book arts and web design. Students are expected to strengthen their verbal, written and visual communication based deeply in the elements and principles of design.

Independent Study .5 Credit/Semester

Prerequisite: Into to Art and one additional semester of art

An advanced level course to be taken ***only with instructor permission*** will allow students to pursue specific areas of interest in art mediums. Students will be required to research and study art movements and artists of interest, and plan a project that they will complete on a set timeline. Individual responsibility is a large part of this class, as the student will be deciding the projects and guidelines with the instructor.

BUSINESS EDUCATION

Accounting I .5 Credit /semester 11th – 12th Grade

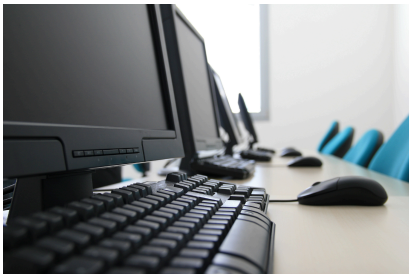
Offered: First Semester

This course provides an understanding of the basic principles and concepts of double entry accounting systems. This includes the accounting cycle for a sole proprietorship service business, a partnership merchandising business and a corporation. The accounting concepts included are: Changes that affect owner's equity, journalizing transactions, posting to a general ledger, cash control systems, worksheets, financial states, recording adjusting and closing entries and post-closing trial balance. Students will be introduced to the use of accounting in determining the health of a business and ways investors use fundamentals to choose their investments. Textbook: *Century 21 Accounting: General Journal*

Accounting II .5 Credit /Semester 12th Grade Prerequisite: Accounting I

Offered: Second semester

This course provides understanding of advanced principles and concepts of double-entry accounting systems. Purchases, cash payments, sales, cash receipts, payroll journal accounting, as well as uncollectible accounts, plant assets, notes payable prepaid expenses accrued expenses, notes receivable, unearned interest, and accrued revenue. A corporation accounting unit includes paying dividends, acquiring additional capital, financial analysis and reporting for a corporation. Students will learn about paying dividends, acquiring additional capital, and financial analysis. Students will create reports for a corporation, cost accounting for a merchandising business and a manufacturing business.



Introduction to Business .5 Credits/Semester 9th – 12th Grade

This introductory course to business practices will act as an overview of the organizational structure and function of businesses today. We will examine how business is done at many levels and in the different organizational structures. Students will become aware of career opportunities in business organizations at all levels of performance. They will understand the technical skills, knowledge, education levels, and attitudes needed to be successful in the business world today. Special emphasis will be given to common business practices in product development, marketing, and support in both the service and production industries. Students will be introduced to the relationship between the overall economy and the performance of local business concerns. Students will write and share reports and class presentations using Google Docs, Sheets, and Slides.

The Business World .5 Credits/Semester 10th – 12th Grade

Prerequisite: Introduction to Business

This class is a follow-on to the Introduction to Business. The intent of this class is to show students the reality of the global business environment and their place in it. Students will examine the concept of international trade and how it impacts their part of the world. They will learn about how international economic issues influence state and local business and why it is important for the United States to be part of world commerce. This course will also cover current methods of marketing goods into the US and examine national efforts to ensure this trade is balanced. Students will write and share reports and class presentations using Google Docs, Sheets, and Slides.

Introduction to Computer-Aided Design, Semester 1 Grades 9-12
.5 Credits/Semester

This class provides Basic Training in the use of Computer-Aided Design (CAD) including entity creation, editing, dimensioning, file management, and plotting. A "hands-on" approach will be taken while using Google Sketchup, Docs, Sheets, and Slides to encourage student exposure to a variety of disciplines including project management, metalworking, woodworking, 3D plastics and general graphics artwork design. This course is established as a co-teaching, project oriented, Career and Technical Education enterprise between the Business Education and Technology Education Departments. Students taking this class will have the Business opportunity to experience project management aspects of design, pricing, and sourcing for actual manufacture during their Technology Education class.

Advanced Computer Aided Design, Semester 1/Semester 2
Grade 9-12 Prerequisite: Introduction to Computer-Aided Design

This class is an advanced introduction to Computer-Aided Design giving the students project oriented exposure to PC based AutoCAD software. Students will have the opportunity to gain documented experience with a graphics design program that has been a standard in industry for more than thirty years. As with its prerequisite course, this class is established as a co-teaching, project oriented, Career and Technical Education enterprise between the Business Education and Technology Education Departments. Students taking this class will have the Business opportunity to experience project management aspects of design, pricing, and sourcing for actual manufacture during their Technology Education class.

Entrepreneurship .5 Credits/Semester Grade 11th-12th
Offered: First Semester

The object of this course is to prepare students to successfully launch a new commercial enterprise either independently or by assuming responsibility for an existing business. They will learn how to assess business opportunities, obtain funding for new ventures, operate efficiently and profitably, and maximize their potential for profit. The disciplines they will be discussing include Marketing, Management, Accounting, Finance, Business Planning, and Logistics. They will also be presented the descriptions of the different types of business entities including their advantages and disadvantages. Because of the extroverted nature required of entrepreneurs, students will be giving frequent presentations to the instructor and class on all the above subjects.

Consumer Economics .5 Credits/Semester Grade 9th-12th

Student will learn the importance of creating financial plan, budgeting, investing, using tax concepts, interest rates, credit, loans, insurance and purchasing a home. Students will then use these concep0ts and learn how to apply them to their personal financial plans. Students will then

become more attentive to money management skills as consumers in the 21st century and also correlate the role that education plays in personal and financial career choices.

Small Business Enterprise .5 Credits/Semester Grades 9th - 12th

During the semester the students will be involved in operating a small business enterprise within the school. Their responsibilities will include everything from product design, development and production to marketing, supplies logistics and sale. The primary products will be for use by fellow students and community members as a support of fundraising or as end-product consumption. The enterprise focus for the class will be in using our Wide Format Printer, 3D printing as well as Web Design. In working with these manufacturing methods the students will be exposed to numerous digital design and production software suites including: Adobe's Photoshop, InDesign, Illustrator, and Lightroom, Trimble's Sketchup, as well as Autodesk's Inventor, Raser Design, and Fusion 360. For tracking the progress of the business students will use Microsoft Excel and Word. This is a course designed to give budding entrepreneurs a chance to be exposed to the challenges of starting a business. Anyone interested in graphic/computer aided design, computer aided manufacture, website design, or running a business is encouraged to take this course.

Yearbook .5 Credits/Semester *10th - 12th Grade*

Offered: First and Second Semester

The main focus of this course is to create a one hundred-twenty page color yearbook. This class reinforces the concepts from desktop publishing using the online *Pictavo* software to create acceptable yearbook pages. Students will be in charge of designing the format of the book, researching and writing the entries for activities pages, taking pictures and soliciting businesses for advertisement in the yearbook. Students will deal with real deadlines that have to be met. After the yearbook has been given to the publisher for printing, the students will work on building a small compilation of student artwork, prose and poetry to be printed and provided to the student body. Those students with previous Desktop Publishing credit will help maintain the Butternut School District webpage.

ENGLISH DEPARTMENT

English 9 .5 Credits/Semester Year Long

9th Grade Required

English 9 is a general introductory course that will lay the foundation for all other English classes. Students will study the language through literature, composition, and mechanics throughout the year while reading several individual novel selections and specific assignments of a variety of other literary works. The course is designed to give students exposure to and understanding of literary and grammatical terms and a practical knowledge of composition and communication skills.

English 10 .5 Credits/Semester Year Long

***Prerequisite: English 9* or 10th Grade Required**

English 10 is a continuation of English 9 with a genre centered approach to the interpretation of prose, poetry, drama, and the development of writing skills. The emphasis is on the role of literature in social awareness. Students will be reading novels and other specifically assigned pieces throughout the year and will be continuing their applied study of grammar, mechanics, and usage. The course is designed to give students an expanded appreciation of literature and the basic tools of literary analysis.

American Literature .5 Credits/Semester Year Long

Prerequisite: English 10 or instructor approval

American Literature is a survey course of American literature. American Literature is a yearlong course covering the periods from Native American and Colonial American writings to contemporary American literature. Emphasis will be placed on a historical interpretation of American literature, including the study of all types of literature to enrich an understanding of the human condition and to apply themes to one's own experience. This course will focus on communication skills including speaking, listening, writing, grammar, and the mechanics of writing. Some assignments will require students to work in cooperative groups with specific guidelines. Individuals will also work alone and some work will be done as a whole class. This class is recommended to students who plan on attending a 2-year or 4-year college.

World Literature .5 Credits/Semester Year Long

Prerequisite: English 10 or instructor approval

World Literature is a survey course of literature in translation from around the world. Emphasis is on the interpretation and analyses of classical traditional literature from the ancient world, ranging from the classical world of Greece and Rome, to the traditions of the Chinese and Japanese, to the literature of the Middle East and Africa, to European Literature, and concluding with contemporary literature throughout the modern world. This is an advanced course for students who plan on attending a 2-year or 4-year college.

British Literature **.5 Credits/Semester** **Year Long**

Prerequisite: English 10 or instructor approval

British Literature is a survey course of British literature. British Literature is a yearlong course covering British literature from the Anglo-Saxon Period through contemporary British writings. Emphasis will be placed on a historical interpretation of British literature, including poetry, drama, prose, and composition. Various themes in literature will be discussed, and students will learn to critique literature and to write with the basic tools of literary criticism. In addition to a variety of writing assignments, vocabulary study, and research skills, students will work on effective communication skills. Upon completion of this course, students will feel confident that they can readily adjust to college level studies of literature and English composition. This course is recommended to students who plan on attending a 2-year or 4-year college.

Creative Writing .5 Credit /Semester (Offered 1st Semester only)

Prerequisites: Instructor approval only

This course is dependent on instructor availability. The first nine weeks will be an overview of the three major genre/types of writing: prose, poetry and drama. Students will learn the writing process and techniques used in writing each type. The second nine weeks will be the students' opportunity to further explore their own styles and improve their skills in the genre(s) of their choices.

FOREIGN LANGUAGE

Spanish I & II (ITV Class) **.5 Credits/Semester** **Year Long Classes**

Instruction is provided via an instructor on the ITV network. Students learn to communicate in Spanish through instruction and practice in speaking, listening, reading, and writing. An emphasis

is placed on vocabulary, grammar and culture. Grading is based on quizzes, tests, projects, daily assignments, and oral participation. Spanish 2 is a continuation of the study of Spanish in the same format to learn vocabulary, grammar and culture with emphasis on listening, speaking, reading and writing.

French I, II, III and IV .5 Credits/Semester Year Long Classes

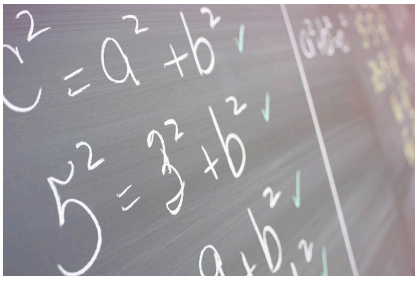
In all levels of French, the goal is proficiency; cultural knowledge is gained and the vocabulary of daily life (home, family, school, colors, numbers, transportation, age, weather, food, feelings, greetings) is learned to enable self-expression. French is the language of communication in the classroom. The first stop in a sequential progression of French study, this course stresses comprehension of spoken French and oral communication. Cultural knowledge of French speaking countries and vocabulary for daily life are integral parts of this course. Some reading and writing skills are begun, but the main goal is oral proficiency in realistic daily life situations.

MATH DEPARTMENT

Algebra I .5 Credits/Semester Year Long

9th Grade Required

This course is designed to teach the student the practical mechanics and manipulative skills needed to proceed to a more advanced level. This class is a beginning level study of algebra intended to meet the needs of the technical college-bound student as well as the student who intends to enroll in a four-year university. Skills reinforced from Math 8 include expressions; equations and functions; solving and graphing linear inequalities; and ratio, proportion, and percent. Students are introduced to more rigorous solving, graphing, and writing of linear equations; exponential functions; and quadratic equations and functions. As time allows, the following topics may be discussed: radical and rational equations and functions, statistics, and probability. Graphing calculator use will be introduced and stressed in the latter half of the school-year.



Geometry .5 Credits/Semester Year Long 10th Grade Required

Prerequisite: Algebra I (Can be taken concurrently with Algebra II with instructor approval)

This course is a follow up course to Algebra I. This class gives the student a firm background in plane geometry with some three-dimensional applications. Inductive reasoning as well as deductive reasoning is applied to reach conclusions in both mathematical and non-mathematical situations. The properties of parallel and perpendicular lines, angle relationships, congruence, triangles, common quadrilaterals, similar polygons, circles and circle parts, geometric construction, and loci are used to develop a logical mathematical system. Problems in the practical use of geometry on the job are stressed. Coordinate geometry is reinforced in both two and three dimensions with the mid-point, distance formulas, and applications of the Pythagorean Theorem. The sine, cosine, and tangent ratios are also developed. The portion of the course content dealing with formal proof can be treated with varying degrees of intensity depending on the character of the students in the class. This class is a beginning level study of geometry intended to meet the needs of the technical college-bound student as well as the student who intends to enroll in a four-year university.

Algebra II .5 Credits/Semester Year Long 11th - 12th Grades

Prerequisite: Algebra I and Geometry (Can be taken concurrently with Geometry with instructor approval)

This course reviews all the basic skills from Algebra I. Students entering this course are expected to have mastered the following: fractions, decimals, square roots, cube roots, and solving basic equations. Students are taught methods in solving equations of third and fourth degree. Greater facility in working with radical and exponential expressions, simplifying radicals, and solving radical equations are taught. Students learn how to work with logarithms and to solve logarithmic equations. Trigonometric ratios are reviewed as well as the use of the Law of Sines and Cosines. If time allows, conic sections are discussed. Graphing calculators are moderately used in this course; skills with both tables and graphing are discussed. This class is designed to prepare the student for a university program.

Pre-Calculus .5 Credits/Semester Year Long *11th - 12th Grade*

Prerequisite: Algebra I, Algebra II, and Geometry

This class is for the self-starter student who has mastered most or all concepts in previous math classes or has the desire to expand their mathematical knowledge. This class focuses on expanding skills from Algebra II and introduces key ideas in trigonometry and limits. By the end of the course, the student is expected to have mastered functional concepts and graphing and have

a working knowledge of trigonometric functions and their graphs. Solving higher-order equations, matrices, and conic sections are discussed. All six trig functions are discussed as well as their inverse functions. Limits of functions, the graph of functions, and their limits are addressed. Graphing calculators will be used extensively in this course. This course is set up for the student who is planning to attend a four-year college where calculus will be part of their college program.

Calculus .5 Credits/Semester Year Long *12th Grade*

Prerequisite: Algebra I, Algebra II, Geometry, and Pre-Calculus

(Recommended for students in 12th grade with successful completion of all previous mathematics courses)

This is a college-level course that provides the equivalent of one semester of college calculus. The students who take this class are self-starters who have mastered most or all concepts from previous math courses. The introduction to this class includes a review of representations of real numbers on the number line and coordinate grids, equations of lines, conic sections and graphs, and functions. The four major units of Calculus include: limits, derivatives (instantaneous rate of change of a function), indefinite integrals (anti-derivatives), and definite integrals (numerical integration). Applications of derivation and integration are developed. Graphing calculators will be used extensively in this course. This course is set up for the student who is planning to attend a four-year college where calculus and higher math will be part of their college program.

Technical Mathematics .5 Credits/Semester Year Long

11th - 12th Grades ***Prerequisite: Algebra I***

This class covers some of the basic skills of arithmetic, traditional Algebra I, and Geometry. This course focuses on the practical applications of math concepts rather than the theoretical. Mastery is expected by the end of the course in arithmetic skills; usage of decimals, fractions, and per cents, and precision. Skills in ruler measurement and measurement conversions are reinforced. This class is specifically set up for the student who is going to the technical college or directly into the workforce.

BUTTERNUT SCHOOL DISTRICT

MUSIC DEPARTMENT

Butternut Band **.5 Credits/Semester** **Year Long** ***9th-12th Grade***

Prerequisite: Beginning and Intermediate Band

The objectives are to provide opportunities for expansion and application of previous instrumental music experiences, to increase understanding of concepts of the structure and style of music and to develop individual and ensemble techniques. Membership is based on progress in Beginning (5th grade) and Intermediate (6-7th grade) Bands. The band performs in school concerts, at many school sports events and various parades during the summer. Students have the opportunity to participate in solo and ensemble works which are performed at the District Music Festival. The band will perform as a large group for the District Music Festival as well. Band will meet every day.

Butternut Chorus **.5 Credits/Semester** **Year Long** ***9th-12th Grade***

The objectives are to provide opportunities for expansion and application of previous vocal music experiences, to increase understanding of concepts of the structure and style of music, and develop individual and ensemble techniques. All high school students have the opportunity of participation in Chorus. The Chorus participates in school concerts and students also have the opportunity to be involved in solo and small ensembles at the District Music Festival. The Chorus will perform as a large group at the District Music Festival.

PHYSICAL EDUCATION

Health 9 ***.5 Credit /Semester*** ***9th-12th Grade***

This course is designed to help students understand personal health and wellness. The class will incorporate: decision-making skills, the ability to access health related information, disease prevention, technology, communication, and avocation for personal health. The class will address: substance abuse, emotional health, nutrition, human growth and development, environmental health, and consumer health, and CPR.

Physical Education

.5 Credit /Semester ***9th-10th Grade***

Physical Education/Human Performance class concentrates on efficiency of movement, body control, and concepts of wellness. The curriculum includes the following activities: agility drills and plyometrics, paddle tennis, soccer, basketball, team handball, aerobics, football, badminton, floor hockey, volleyball, fitness walking, and dance.

Weight Training

.5 Credit /Semester ***10th - 12th Grade***

Weight training and sports conditioning is a course in which principles of weight training and sports conditioning are discussed and applied to provide a foundation of total body strength and muscle tone in preparation for sport specialization. Basic knowledge relevant to the physiology of strength, muscle power, size and endurance are considered with respect to methods of achieving specific goals.

Fitness for Life

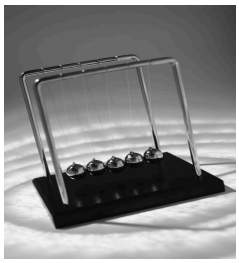
.5 Credit / Semester ***10th - 12th Grade***

Fitness for life is an individualized, concepts-based course designed to give students the knowledge and skills necessary to self-assess, create, conduct, evaluate, and re-design personal fitness programs. The course is designed for students to explore a variety of individualized fitness skills and concepts necessary for students to become accomplished monitors of their personal lifetime fitness.

Team Sports/Games

.5 Credit /Semester ***10th - 12th Grade***

This course is designed for students to achieve an optimum level of fitness through participating in various team sports. Some activities that will be covered are: volleyball, badminton, pickle ball, team handball, floor hockey, ultimate Frisbee, softball and golf.



SCIENCE DEPARTMENT

Science 9 **.5 Credits/Semester** **Year Long** ***9th Grade***

This is an introductory high school science course. Students will be introduced to concepts in these areas as well as lab safety and skills. Many labs will be performed developing math and data interpretation skills.

Biology **.5 Credits/Semester** **Year Long** ***10th Grade and Grade 9 with instructor's permission***

Biology is the study of living things. Major areas of study include: Classification, Genetics, Human Anatomy, Plants & Animals. An insect collection and dissections as well as many other labs are part of this course.

Advanced Biology **1/2 credit/ Semester** **11th and 12th Grade**

Prerequisite: Biology

A continuation of Biology to include field study and environmental impact of the interaction of plants, animals and other environmental factors.

Physics (2020, 2022) **.5 Credits/Semester** **Year Long** ***11th -12th Grade***

Prerequisites: Science 9 & Biology

Physics is an important fundamental science concerned with the laws and phenomena of the material world and comprises the related science of heat, light, sound, mechanics, electricity, and atomic physics. It is a science which compels the students to think and apply knowledge to solve problems. Most colleges and universities recommend or require Physics be taken in high school. Students who intend to pursue a scientific, medical or technical vocation in college should consider Physics a "must".

Comparative Anatomy (2020, 2022) ***.5 Credit /Semester*** ***11th-12th grade***

Students will dissect a variety of animals starting with the simplest animals and progressing to the more complex. Students will be tested on anatomical structures of each animal, as well as adaptations of animals to their environment.

Anatomy & Physiology - Medical Terminology ***1 Credit /every other year (2020, 2022)*** ***11th -12th Grade Prerequisites: Science 9 & Biology***

This course consists of a detailed study of the human body as an integrated structural and functional unit. The anatomy and physiology of the human body are covered by major system: circulatory, respiratory, digestive, excretory, reproductive, nervous, endocrine, muscular, and skeletal system. This course is designed primarily for students going into a health care field. Laboratory work will include dissection, measuring blood pressure, urinalysis, measuring blood

sugar levels, blood typing, and computer simulations. Medical Terminology will be integrated with Anatomy and Physiology. (High School Credit only)

Science/Project Based Learning (PBL) *.5 Credit /Semester 9th-12th grade*

This course will allow students to work independently on projects used to understand the concepts for targeted learning goals. The grades will be based on completion of the projects and the learning of the targeted skills.

Biotechnology (2021, 2023) *.5 Credit /Semester 11th -12th Grade*

Prerequisite: Science 9 & Biology

This course covers basic concepts and techniques necessary to work in a biotechnology laboratory setting. It will give students an awareness of career opportunities and the skills needed for careers in biotechnology. The extensive laboratory work will introduce students to proper laboratory techniques and the operation of instruments used in biotechnology labs. This course is designed to prepare students for entry-level employment and/or two or four-year college program in the field of biotechnology. The curriculum includes laboratory safety, microbiology techniques, molecular biology, gene transformation, DNA extraction, electrophoresis, and other advanced lab techniques. Other topics covered in lecture include ethical and moral issues involved in genetic engineering, regulations governing biotechnology and careers in biotechnology. (High School Credit only)

Chemistry *11th - 12th Grade* .5 Credits/Semester Year Long

Prerequisite: Science 9 & Biology

Chemistry is the branch of science, which investigates the composition of matter, the reactions that occur, the energy change which takes place and the theories which govern them. Those individuals who intend to further their education beyond high school should give consideration to enrollment in Chemistry, especially those whose interest lies in the field of nursing, engineering, medicine, pharmacy, genetic research, agriculture, etc. Lab experimentation includes such things as a group project, identification of unknowns and the usual lab supplements, which reinforce topics of discussion. Students should expect to be doing lab work approximately once a week.

Field Biology *.5 Credit /Semester 11th – 12th Grade*

Field Biology is for students with a serious interest in plants, wildlife, and the natural environment. The course is career orientated for wildlife management, game warden, environmental engineering, forestry and horticultural degrees. Fieldwork concentrates on plants, birds, mammals, weather, and soils. Students will develop independent projects involving environmental topics.

Forensic Science (2019, 2021) *.5 Credit /Semester 11th - 12th Grade*

Prerequisite – General Chemistry/Physics & Biology

Forensic Science is a branch of science that investigates methods used to analyze evidence found at crime scenes. Laboratory work will include Drug analysis, DNA fingerprinting, forensic entomology, blood determination, food analysis, finger printing,

hair analysis, and many others. Students will complete the class by analyzing evidence in a mock crime and determining the culprit.

Environmental Science Instructor consent Early College Credit Acceptance
It is a basic course in human ecology. Emphasizes environmental problems related to human activity in the modern world. Prerequisite: Biology, and Science-9

Biology 181 Special Topics Instructor's approval/Early College Credit Acceptance
In-depth study of specialized current topics in biology. Course may be repeated for different topics.

Applied Botany-Work Experience (Student Run Enterprise)

.5 Credit /Semester 11th - 12th Grade

Students experience and develop skills in management, production, marketing, and sales of plants. Some tentative projects include designing gardens and growing potted flowers for spring gardens. Students will also develop skills in teamwork and time management. Botany and horticultural topics will also be addressed.

SOCIAL STUDIES

World Civilizations .5 Credit /Semester Year long

Required: 9th and 10th Grade

Students will learn about the history of several ancient civilizations, where they came from and how they grew over time and in many cases what lead to their decline or destruction. Students will learn how cultures borrow religious beliefs and traditions from one another and adapt them to meet their needs. Students will learn about the progression of human beings from groups of hunters and gatherers to small communities of farmers and the development of cities, countries, empires and colonies.

American History .5 Credit /Semester Year long

Required: 9th and 10th Grade

Students will learn about the history of the United States of America from the establishment of the 13 colonies to present day. Students will examine the public policies of presidents and legislators who have influenced the way our nation has developed. Students will learn about many conflicts and controversies that have shaped our nation including political and social movements and war. Students will examine the cause and effect of many historical acts and will

examine how such acts have influenced their lives today. Students will learn about key people who have changed United States history and in so doing have changed their lives forever. Topics to be covered include:

13 Original Colonies	World War I	Revolutionary War
The 1920's	Articles of Confederation	The Great Depression
The United States Constitution	The New Deal	Washington's Presidency
World War II	Jeffersonian Era	Slavery
Westward Expansion	The Civil Rights Movement	Immigration
The Space Race	Jackson	Reconstruction
The Civil War	Nixon/Ford/Carter/ JFK/ Reagan	G.H. Bush/Clinton
9-11-2001	The Industrial Revolution	G.W. Bush/Obama
Urbanization	The Cold War	

Street Law **.5 Credit /Semester** **No Prerequisites**

Description: Street Law strives to empower young people to be active, engaged citizens by equipping them with the knowledge and skills they need to successfully participate and create change in their communities. Students will learn practical information about laws that impact them in everyday life.

Introduction to American Government **.5 Credit /Semester Required**

Prerequisite: Junior or Senior Standing

The purpose of this course is to enable students to gain an understanding of American government and political behavior that is essential for effective citizenship and active involvement in a democratic American society. Students will examine the historical development of American government along with the concepts of federalism, separation of powers, checks and balances, and the role that government plays in one's life.

History and Development of Psychology **.5 Credit /Semester 1 and 2**

This course looks at the history and development of the global field of Psychology. Students will learn what the field of Psychology is and how our perceptions of ourselves and our relationships with others have changed in the field of Psychology over time. Students will learn about events and discoveries that have changed the field of Psychology. Students will examine how Psychological has changed in specific areas such as, Psychological research, biology and behavior, fields of Psychology, Learning, Memory, Consciousness, and Sensation and Perception.

Current Events **.5 Credit /Semester** **Prerequisite: Junior or Senior Standing**

Students learn about current issues on a daily basis. Students are expected to make connections between historical events and the current political, social, and economic climate. The goal of this class is to assist students to become educated citizens in our ever-changing world.

TECHNOLOGY EDUCATION

General Technology I/II .5 credits/semester year long course

Grades: 9-12

Industrial Enterprise In this class, students will put to work the early lessons from the middle school rotations, but with a broader scope. Every tool in the shop will be utilized and students will receive their primary introduction to the metals shop. Learning will be a mix of classroom instruction and project based lab work. Students will be expected to create technical drawings of each major project in addition to creating it. The class is intended as an introductory course to High School technology education and is a prerequisite for the majority of the other courses in technology education.

Advanced Technology .5 credits/semester year long course

Prerequisite: General Technology, Instructor Signature

This class acts as a capstone class for the technology education coursework. Students will be given the opportunity to work on forwarding their own ideas and projects in a classroom environment. Students will design and build projects either individually or in small groups based on the scale of the project. The class may also be called upon to take part in hands on activities in the community and school as part of the coursework. Entry into the class is at the instructor's discretion based on past performance in technology education classes.

Metal Processing .5 credit/semester Grades 9-12

Students will learn to work with metals. Skills will include welding, metal fabrication, milling, working the lathe and sheet metal work.

Power & Energy Technology .5 Credit/Semester

Coursework for the class will include a teardown of a small gas engine as well as instruction related to mechanical power transfer, civil power generation and topics related to green energy technologies.

Building Trades 1 Semester – ½ Credit Grades 10-12

Prerequisite: General Technology or Teacher Permission

This is a course for students interested in learning about the construction industry. We will be covering residential construction from site layout to finish carpentry. We will be reviewing shop/machine safety and you will be introduced to new equipment and processes. We will be using the text "Carpentry and Construction". This class will consist of classroom and lab activities to help you gain a working knowledge of construction.

Construction Techniques 2 Semesters – 2 Hour Block – 2 Credits

Prerequisite: Building Trades Grades 11 and 12

This is a course for students interested in a construction career and who want to have hands on learning. We will be applying skills learned from prerequisite Building Trades course at a construction site and/or lab setting working on residential building components. Students will learn processes and procedures through observation, discussion, research, job or task shadowing, and hands-on participation. Special emphasis is given to actual hands-on performance skills. During winter months students will be working outside and should be able to work under diverse conditions.

Industrial Enterprise/Manufacturing .5 credits/semester

This is a year-long course Grades: 10-12

This is a year-long course intended for students interested in a manufacturing career. Class projects will be student-selected and based on market research and individual interests. Products will then be designed, manufactured, marketed and sold to the student body, school staff, and community. Individual duties will range from research and design, marketing, management, quality control, and manufacturing. Students in this class will:

- Study different types of manufacturing systems
- Develop a product prototype
- Conduct market research for product refinement
- Establish a business, produce a product for sale and market the product for a **profit** or **loss**.

Students seeking to take this class are encouraged to take business education courses as part of preparing for this course.

Robotics Engineering .5 Credit/Semester

Robotics courses develop and expand students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, pneumatics, computer basics, and programmable logic controllers. This is General or Regular Course.

Woodworking .5 Credit/Semester Grades 10-12

Woodworking courses introduce students to the various kinds of woods used in industry and offer experience in using selected woodworking tools. Students design and construct one or more projects and may prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on terminology, finishing techniques, and develop a step by step plan for completing a project.

Supplemental Services

Student Aides/Teacher Aides .25 Credit /Semester Grades: 9-12

Freshmen students can enroll as an aide in the program during the 2nd semester provided they have successfully managed their first semester academic credit load.

Program requirements include the completion of an application, a few simple assignments. In addition, complete a work contract with the supervising staff member to establish grading criteria.

Possible Positions:

H.S. Tutor – These students provide one-on-one tutoring during study hall or provide support in a classroom or lab.

Jr. H. Tutor – These students provide one-on-one tutoring during study hall or assist in the classroom or lab.

Elementary Aide - These students work with younger students in various settings.

Classroom Support Aide - These students spend most of their time preparing classroom materials or labs for class members. (This can also be a Lab Aide in the science classroom).

Library Assistant - These students provide direct support in either the H.S. or Elem. Libraries.

Career Center Assistant - These students maintain information, do computer work and create displays of occupation information.

Computer Assistant - These students assist others with using and learning about computers.

Students will be assigned by the school guidance counselor to work with other students (individually or in small group settings) under a teacher's supervision. To receive credit, student aides must work with students in the classroom the majority of the time. Credits earned count toward credit for graduation but grades are Pass/Fail and not included in GPA.

Promethean

Illuminating the pathway to your career

Charter School

At the Charter High School students work independently using an Individual Learning Plan that is career oriented and involves a combination of self-assessment, blended learning, and project-based learning. There is an emphasis on developing

the students' study skills, reading & writing, and employability skills. An end of semester presentation is required.

See the PCS Director for a complete course catalog, course descriptions, and an application.

Required courses for high school graduation are indicated by an asterisk (*).

Science *Integrated Physics & Chemistry (Science 9) *Biology *Biology Chemistry Earth & Space Science Environmental Science Life Science Physical Science Physics Sports Physiology & Exercise Science	**Math** *Algebra I *Geometry Algebra 2 Tech Math Probability & Statistics
English *English 9, 10 Creative Writing American Literature Business English Journalism Gothic Literature/Mythology & Folklore Reading & Writing for Purpose Structure of Writing Public Speaking English Literature	**Social Studies & Political Science** *World History *U.S. History *U.S. Government/Civics African American Studies Contemporary World Introduction to Criminology Native American Studies Social Issues Psychology Principles of Law, Public Safety, Corrections, and Security World Geography
Foreign Language (Distance ITV or Blended) American Sign Language German, Spanish, Swahili *other languages available upon request*	**Fine Arts** Animation Art History and Appreciation Art in World Cultures Music Appreciation
Career & Technical Education *Consumer Economics/Personal Finance Career Explorations/HS Career Discovery Child Development	**Physical Education & Health** *Health *Physical Education

Child Care Services: Assistant Childcare Teacher Computing for College & Careers Drafting & Design Engineering & Technology Food & Nutrition Introduction to Military Careers Sewing & Clothing/Fashion Design	

Teacher Assistant/*Computer Assistant & BLT* ***.25 Credit/Semester 9th-12th Grade***
This student will assist elementary students with using and learning about computers. Students must be available both 7th and 8th hours. This course includes Butternut Learning Time BLT. Credits earned count toward credit for graduation but are not included in figuring GPA (Pass/Fail).

Work Experience is when a student will identify, practice, and work toward proficiency in a variety of employability skills. Students research career interests, complete aptitude inventories, complete a resume and cover letter, plan a job placement, and set employability skill goals to master. Students complete an on the job orientation and a minimum of 80 hours of work experience each quarter. Employers regularly communicate student job performance with the Work Coordinator. Credits earned count toward credit for graduation but are not included in figuring GPA (Pass/Fail).

ITV Distance Learning is when a student takes a course with a teacher that is located at a different school via an audio/video internet connection through the TV located in the Charter. See the course catalog available with the Charter Director or School Counselor.

Charter Science Courses-Ms. Ertl

****Integrated Physics & Chemistry:*** **This is a two-semester course. Semester A the student will first learn about the "basics" of physics, since physics is actually the foundation of chemistry. They will learn how to describe and analyze motion, how forces interact with matter, and how to further describe these interactions with the aid of the concepts of energy and momentum. They will also learn about waves, electricity, and magnetism. Semester B will begin the study of chemistry. This includes the atomic and molecular structures that result in different chemical properties and the**

concepts and tools that will enable you to predict chemical properties and chemical reactions. Students will learn about key types of chemical relationships and reactions, including solutions and acid-base reactions. Finally, the student will extend their knowledge into the areas of thermal and nuclear energy.

Biology: Biology with Virtual Labs is a two-semester course designed to strengthen the students' knowledge of basic biology. Semester A The first unit provides an introduction to biology and biochemistry. It focuses on the roles of and differences between plant and animal cells. In the second unit, they will learn about the functions of different organ systems. The third unit covers cell division and the role of DNA and chromosomes in passing traits from parents to offspring. Semester B first unit focuses on the classification, characteristics and biological processes of living organisms. In the second unit, the student will study evolutionary mechanisms and the impact of environmental factors on species over time. The third unit focuses on the conservation of energy as it relates to living things and different ecosystems. In the last unit, they will explore how different ecosystems are interdependent.

Chemistry: This is a two-semester course that looks at matter's composition, properties, and transformations. Semester A has the student exploring the structure and properties of matter. They will analyze and construct the periodic table of elements. They will compare elements based on their atomic structures and relative positions in the periodic table. The student will also discuss the chemical bonding taking place in ionic and covalent compounds and metals. Finally, the student will predict the outcome of chemical reactions based on the reactants involved. Semester B The student will calculate the theoretical quantities of substances involved in a chemical reaction through the study of stoichiometry. They will analyze chemical reactions that involve aqueous solutions, acids and bases, and gases. They will see how gases respond to changes in pressure, volume, temperature, and quantity through the ideal gas law. They will also calculate changes in temperature caused by physical and chemical processes and analyze reactions in terms of bond energies. Finally, the student will understand how atoms are changed by the unique processes of radioactive decay, nuclear fusion, and nuclear fission.

High School Earth & Space Science: This two-semester course is the study of the structure of our planet and Earth's role in the solar system and universe. This branch of science relies on observations, historical data, and physical evidence to describe the natural processes that occur around us and in distant

space. Semester A begins with a discussion of the methods and tools that scientists use to study Earth and space science, including the scientific method, modeling, and mathematics. You'll look at theories for how the planets, solar system, and universe formed and explain the interactions between the Sun, Earth, and Moon. You'll also learn about the emergence of Earth's materials, atmosphere, and first lifeforms, as well as the dating methods that help us piece together Earth's unique history. Semester B compares the composition of rocks and minerals and analyzing the processes involved in the rock cycle. Students will explore the tectonic mechanisms that lead to some of Earth's most prominent geological features. Students will study important interactions between the hydrosphere and atmosphere and the role they play in weathering and erosion. They will also differentiate between weather and climate and make evidence-based predictions about both using data and modeling. The last unit in this course highlights the negative effects that humans can have on the natural cycles of Earth, as well as effective measures we can take to protect our planet.

Life Science: This is a two-semester course dealing with the study of all types of living organisms, such as microorganisms, plants, animals, and humans. The field focuses on their organization and life processes. Semester A begins with the basic unit of life—the cell. Students will discover how cells build up tissues, organs, and systems. They will study the growth and development processes of different organisms and see how genes are responsible for the traits of organisms. They will also explore natural selection and artificial selection and their effects on the genetic traits of organisms. Semester B has students learning how life evolved on Earth. They will analyze fossil data to determine the evidence it provides about evolution. They will study ecosystems, the flow of energy in an ecosystem, and the various relationships in an ecosystem. In addition, they will discover the interdependence that is present in all ecosystems. At the end of the course, they will determine the effects that humans and environmental factors have on the ecosystems and devise solutions to protect the biodiversity of ecosystems from these effects.

Physical Science: This is a two-semester course that studies matter and energy. Semester A, the student will describe the atomic and molecular structure of substances using models. They will investigate how chemical reactions involve energy and lead to changes in properties of substances. They will also model different kinds of forces and the effect they have on the motion of objects. They will solve problems involving work and power and apply these principles to simple machines. At the end of the semester, they will see how simple machines make up more complex machines that are important in our lives. In semester B, the student will investigate gravitational, electric, and magnetic force fields and

identify factors that determine their strength. They will apply concepts of electricity and magnetism to explain how motors, generators, and electromagnets work. They will discuss energy transformations in objects and systems, including how heat flows between objects that are at different temperatures. They will model how sound and light travel as waves and how they interact with different forms of matter. By the end of the course, student will explore how electromagnetic waves help us communicate with one another and collect information about the universe.

Physics: This is a two-semester course. In semester A, students will learn about the "basics" of physics: how to describe and analyze motion, how forces interact with matter, and how to further describe these interactions with the aid of the concepts of energy and momentum. Finally, students will explore one more specialized topic, thermodynamics, the physics of heat. In semester B students will use their physical understanding of motion, forces and energy and apply that knowledge to some important, specialized topics in physics: the behavior of waves, applications of wave theory to light and optics, the interaction of electrical and magnetic forces, and the special "non-Newtonian" properties of energy and matter described by quantum theory.

Teacher Assistant/*Computer Assistant & BLT* ***.25 Credit/Semester 9th-12th Grade***
This student will assist elementary students with using and learning about computers. Student must be available both 7th and 8th hours. This course includes Butternut Learning Time BLT. Credits earned count toward credit for graduation but are not included in figuring GPA (Pass/Fail).

Work Experience is when a student will identify, practice, and work toward proficiency in a variety of employability skills. Students research career interests, complete aptitude inventories, complete a resume and cover letter, plan a job placement, and set employability skill goals to master. Students complete an on the job orientation and a minimum of 80 hours of work experience each quarter. Employers regularly communicate student job performance with the Work Coordinator. Credits earned count toward credit for graduation but are not included in figuring GPA (Pass/Fail).

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****Independent Study Courses approved by the School Board***

Assistant Child Care Teacher Skills Certificate Program:
Prerequisite: Child Development

The intent of the Wisconsin Assistant Child Care Teacher (ACCT) Certificate Program is to recognize a student's mastery of employability skills valued by employers, to help students explore their career interests, and to provide a state credential of student mastery. Student completes the classroom coursework and 10 hours of volunteer experience in a licensed child care facility. 4207

Infant & Toddler Development Skills Certificate Program: Prerequisite: ACCT
Student completes classroom coursework and 10 hours on-the-job experience or observation with children ages birth to three in a child care setting (minimum of 5 hours must involve children ages birth to 1). Apply appropriate practice related to the social-emotional development of children ages birth to 3: apply appropriate practice related to the physical development, brain development, communicate effectively with parents and other staff members, adhere to licensing guidelines related to sanitation, health, and safety. This is in addition to the ACCT 10 hours of observation in a regulated child care setting. This course coincides with ACCT and Work Experience must be taken at the same time. 4307

Child Services Co-op/Child Care Teacher Program
Wisconsin Cooperative Education Skill Standards Certificate Program:
Prerequisite: ACCT & I/T
The Child Services Co-op is a skill certificate program for seniors who are 17 years of age and who have satisfactorily completed the Assistant Child Care Teacher and Infant & Toddler courses. The competency areas covered include personal/interpersonal, thinking/information processing, systems/technology, introduction to child care services, the center environment, children professional development, food and nutrition, health and safety, and special needs of children. Core employability skills are also measured. Students who satisfactorily complete the program and graduate from high school also qualify to receive the second-level Wisconsin Department of Children and Families (DCF) employment designation as a Child Care Teacher. Student completes 480 hours of on-the-job experience in a licensed child care facility. Thus, this course must be taken in conjunction with Work Experience to complete these hours. 4208

Child Development: Students planning to work with children, as a parent or in a career, should seriously consider this course. Development of the child is considered from conception through early school age: intellectually, physically, socially, and emotionally. The student will adhere to child abuse and neglect mandates, apply Sudden Infant Death Syndrome (SIDS) risk reduction strategies, and apply strategies to prevent the occurrence of Shaken Baby Syndrome (SBS). The students will get real life experience with the Baby Think It Over infant simulator. Students will leave with industry recognized certifications in Infant/Child FA/CPR/AED, SBS, and SIDS. 72201G

Clothing & Sewing: The Clothing and Sewing courses are designed to help students learn about apparel, fashion, and sewing construction from basic to more advanced techniques. Topics

include: purchasing, navigating the fabric store, care of clothing, sewing construction, accessories, and career opportunities in the fashion business and job opportunities in fashion merchandising. 22205

Creative Writing: Students will learn how to write narratives, short fiction, and poetry. Each unit provides the framework and materials needed to build the writer's skills including: sequential writing process, prewriting activities, draft directions, editing and proofreading activities, and excerpts and quotations from famous authors and student writing samples.

Food & Nutrition: The Food and Nutrition course is designed to help students learn about food and nutrition. They will learn how to develop scientific and inquiry skills as they become nutritionally literate with food management and preparation. Topics include: social/cultural aspects, nutrition and health, safety and sanitation, food science and math, consumer skills, food preparation skills, meal management, foods lab equipment, and career opportunities in food and nutrition. 22202

Introduction to Criminology 5237 15057G .5 credits
This course provide students with knowledge and skills related to understanding criminal law, constitutional amendments, and due process. Course content may include specific types of crimes, such as vehicle crimes, personal crimes, cybercrimes, drug crimes, and crimes related to child pornography or pedophiles. It covers theories as to why people engage in crimes or refrain from criminal activities. Theories will discuss how crimes and criminal behavior can be reduced by advocating peace and justice, reducing physical opportunities and increase the risks of being caught. This is General or Regular course.

Introduction to Military Careers 6827 09002G .5 Credits
This course is designed to provide students with instruction in the history, organization, role, objectives, and achievements of a particular branch of the U.S. Armed Forces; expose them to the career opportunities provided by the U.S. Armed Services. These courses typically cover such topics as military customs, courtesies, rank, drill, and ceremonies and also emphasize citizenship and scholarship. The course content typically includes subjects related to the particular branch being studied (such as map-reading, nautical skills, aerospace technology, or communication technologies), as well as more general subjects (international law, national defense, celestial navigation, and geopolitical strategy). This is General or Regular course.

Music Appreciation 9008 05118G .5 Credits
A one semester course intended as a hands-on guide to music appreciation. It includes identifying elements and patterns in music, and identifying elements of music notation. This course will explore the history and evolution of music from the

middle ages to the modern era. The course will cover the influence of music on society and culture.

Principles of Law, Public Safety, Corrections and Security Course I 5217 15099G .5 Credits
This course introduces students to the field of public safety and extend their knowledge and skills pertaining to the safety and security of homes, workplaces, and the community. This course will enable students to explore topics related to law enforcement. This course cover such topics as policing, law enforcement, emergency service (fire fighters and emergency responders), and private security. This is a General or Regular course.

Principles of Law, Public Safety, Corrections and Security Course 2 5217 15099G 0.5 Credits
This course is intended as a practical hands-on guide to help you understand the personal, professional, and technical skills required by professionals working in the field of law, public safety, corrections and security. This course covers communication skills, math skills and work ethics. It also covers job acquisition skills, career advancement skills and other important professional skills and qualities required at the workplace. This is a General or Regular course.

Psychology 1 9362 04254G
Psychology courses introduce students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology. This is General or Regular course.

Psychology 2 9363 04254E
A continuation of the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology. This is General or Regular course.

Psychology 3: Psychology courses introduce students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics of human growth and development, personality and behavior, and abnormal psychology. The student will learn a comprehensive treatment of psychology core concepts grounded in both classic studies and current and emerging research. The text also includes coverage of psychological disorders. This course incorporates discussions that reflect the diversity within the discipline, as well as the diversity of cultures and communities across the globe. 9361 04254G

Sign Language I 10840 24852G .5 credits/ Semester
Designed to introduce students to American Sign Language and culture, American Sign Language I courses prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on a variety of topics. They introduce the relationship among the practices, perspectives, and cultures of deaf people and communities. This is General or Regular course.

Sign Language II 108035 24853G
American Sign Language II courses build upon skills developed in American Sign Language I, preparing students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on concrete topics. American Sign Language II courses introduce the relationship among the practices, perspectives, and cultures of deaf people and communities. This is General or Regular course.

Sports Physiology-Human Sports Performance Prerequisite: Intro to Biology
The student will explore biology and human sports performance as it relates to exercise physiology. Course in Sports Physiology will examine human anatomy and physiology as they pertain to human movement and physical performance in sports activities. These courses may also emphasize the prevention and treatment of athletic injuries. 6959 08017G

Work Study .5 credits/semester Prerequisite: Junior or Senior status
Maintain a 2.0 or better GPA
Students enrolled in the work study program will develop and fine tune work place skills such as: reading, writing, listening, speaking, mathematics, interpersonal skills, time management, thinking and information processing, and systems and technology skills. Students in this program need to obtain a work permit and a job related to their career goals. The supervising teacher will establish connections between the student, a workplace mentor and supervisor who will work together to help the student progress toward achieving fluency in all of these employability skills. Students will be evaluated by this team and perform self-evaluations at least twice per quarter. Successful completion of mastery of the SCANS employability skills as shown in the student's portfolios and periodic evaluations will make the student eligible for a state-issued Employability Skills Certificate. A minimum of 180 work hours must be accompanied with classroom provided work on career planning and employability skills.

Student Nondiscrimination Policy
Equal Education Opportunities

The School District of Butternut is committed and dedicated to the task of providing the best education possible for every child in the district for as long as the student can benefit from attendance and student's conduct is compatible with the welfare of the entire student body.

The right of the student to be admitted to school and to participate fully in curricular,

extracurricular, student services, recreational or other programs or activities shall not be abridged or impaired because of a student's sex, race, national origin, ancestry, creed, color, religion, pregnancy, martial or parental status, sexual orientation or physical, mental, emotional or learning disability.

Complaints regarding the interpretation or application of this policy shall be referred to the district administrator and processed in accordance with established procedures.