

# **BUFFALO HIGH SCHOOL REGISTRATION GUIDE**

**2010-2011**





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## REGISTRATION OBJECTIVES

This academic catalog has been prepared by the Buffalo High School teachers and in it you will find described the courses which will be offered next year. There are a wide variety of classes which will prepare you for your next level of education and to become responsible, informed citizens.

Planning a high school program to meet your individual needs is a process involving many choices and decisions. Because these choices are very important, we offer the following suggestions to help you:

- **Please discuss** your plans with your parents and teachers. They can provide valuable insight.
- Select courses that will meet district graduation requirements. Choose courses that will support future educational and career goals
- **Choose courses** designed to satisfy current interests, curiosity, and the development of personal skills
- **Take advantage** of the many resources within the school to assist you in planning an effective overall educational program
- **Be prepared** to be flexible in our ever changing society. Circumstances may change your direction. Be prepared to make these changes by choosing classes that provide a broad, diverse educational foundation.

## SCHEDULE CHANGES

**Requests for changes** made before a term begins will be heard and changes that can be made without adversely affecting class balance will be considered.

**Schedule changes will not be made over the phone.** Students will need to make appointments to discuss their requests. Counselors are available on a limited basis in the summer to review class change requests.

## *GRADUATION STANDARD REQUIREMENTS*

**Classes of 2010 & beyond must pass the state tests with the following score:**

**MCA Reading 1050**

**MCA Math 1150**

**MCA Writing 3 or better**

**BUFFALO HIGH SCHOOL GRADUATION REQUIREMENTS**

BHS REQUIRES 30 CREDITS FOR GRADUATION.

<b>PROGRAM</b>	<b>BHS REQUIREMENTS</b>	
English	1 credit	English 9
	1 credit	English 10
	2 credits	student choice <i>(must include speech &amp; research standards notated in the course descriptions)</i>
Math	3 credits	Algebra
		Geometry
		Higher Algebra
Science	1 credit	Physical Science 9 <i>(with prior approval, students may opt out if planning to complete Physics and Chemistry)</i>
	1 credit	Biology
	1 credit	student choice
Social Studies	1 credit	American Experience 9
	1 credit	American History 10
	1 credit	World Studies 11
	½ credit	Economics
The Arts	1 credit	ALL Art, Music & Dance courses  Stage Acting, Intro to Web Design, Computer Graphics Visual Technology, Video & Multimedia Productions Arts Foundation
Physical Education	1 credit	Physical Education 9
	½ credit	Physical Education 10 elective course <i>(students choose from a menu of electives)</i>
Health	½ credit	Health 10
Electives	13.5 credits	elective courses*
Total	30 credits	

## ***GRADE 9 ELECTIVES***

### **AGRICULTURE**

2015 Animal Science Technology  
2010 Aquaculture  
2016 Companion Animal Science  
2017 FFA/Youth Leadership  
2019 Horse Science & Management  
2020 Landscaping

### **ART**

2502/2503 Art 1

### **BUSINESS & COMPUTER TECH**

3015 Word Processing  
3016 Intro to Office Applications  
3026 Introduction to Business  
3010 Computer Graphics

### **ENGLISH**

3528 Stage Acting I  
3529 Stage Acting II  
3516/3517 Journalism  
3515 English Grammar and Usage

### **FACS**

4002 Clothing I  
4004 Creative Foods  
4008 Personal & Family Issues I

### **MUSIC**

5013/5014/5015/5016 Orchestra  
5017 Freshman Band  
5021 Freshman Choir  
5026 Music in America  
5004 Classical Music Listening

### **PHYSICAL EDUCATION**

5506 9th Grade Strength & Conditioning

### **SOCIAL STUDIES**

6505 Current Events 1  
6509 Minnesota History

### **TECHNOLOGY**

7004 Energy, Power & Transportation  
7007/7008 Goals 2000  
7001 Introduction to CAD  
7009 Principles of Technology  
7013 Wood Technology  
7005 Electricity/Electronics  
7006 Manufacturing Entrepreneurship  
7017 Automotive Engineering and Design  
7003 Introduction to Metals  
7019 Artistic Metals Fabrication

### **WORLD LANGUAGES**

7501/7502 Spanish 1  
7511/7512 French 1  
7521/7522 German 1  
7503/7504 Spanish 2  
7513/7514 French 2  
7523/7524 German 2  
7531 World Cultures & Communities

**NCAA COLLEGE-BOUND ATHLETES' GUIDELINES**

<b><u>CORE UNITS</u></b>	<b><u>DIVISION 1</u></b>	<b><u>DIVISION 2</u></b>
English Core	4 years	3 years
Math Core (1 year each of algebra & geometry)	3 years	2 years
Science Core	2 years	2 years
Social Science Core	2 years	2 years
Additional English, Math or Science	1 years	2 years
Additional Core (English, Math, Science, Social Science, Foreign Language, Computer Science, Philosophy, Nondoctrinal Religion)	4 years	3 years
<b>TOTAL CORE UNITS</b>	16	14

## College In Schools (CIS) COURSES

<b>COURSE</b>	<b>PARTNER</b>	<b>COLLEGE COURSE #</b>	<b>CREDIT</b>	<b>ELIGIBILITY</b>
<b>ENGLISH</b>				
CIS Writing Practice	U of MN	Writing 1301	4	Seniors to 20%
CIS Literature	U of MN	EngL1001W	4	Top 30%
<b>SCIENCE</b>				
CIS Human Anatomy 1	SCSU	Bio 103		Gr. 11 top 33%
CIS Human Anatomy 2	SCSU	Bio 103	3	Gr. 12 top 50%
CIS Chemistry I	SWSU	Chem231	4	Top 50%
CIS Chemistry II	SWSU	Chem232	4	Top 50%
CIS Animal Science	U of MN	AnSci1101	4	Top 50%
<b>SOCIAL STUDIES</b>				
CIS Intro to Economics	SCSU	Intro to Ec201	3	Seniors to 50%
CIS Psychology I	SWSU	Psychology101	3	Top 50%
CIS Psychology II	SWSU	Psychology 102	3	Top 50%
CIS Democracy	U of MN	Pol1001	4	Top 40%
<b>TECHNOLOGY</b>				
CIS Woods	SCSU	ETS130	3	Gr. 11 top 33%
				Gr. 12 to 50%
<b>WORLD LANGUAGE</b>				
CIS German	U of MN	Ger1003	5	Top 50%
CIS Spanish	U of MN	Span1003	5	Top 50%
CIS French	U of MN		5	Top 50%
<b>PHYSICAL EDUCATION</b>				
CIS Exercise Physiology	SCSU	HEPRSS credit	1	Gr. 11 top 33%
				Gr. 12 top 50%

### To request CIS class transcripts

All requests are done online w/fee

Search word "transcript"

U of MN

[www.onestop.umn.edu](http://www.onestop.umn.edu)

SCSU

[www.stcloudstate.edu](http://www.stcloudstate.edu)

Southwest State

[www.smsu.edu](http://www.smsu.edu)

1-507-537-6207

## ADVANCED PLACEMENT (AP) COURSES

AP Music Theory

AP Calculus

AP Statistics

AP Physics

## **MINIMAL COLLEGE ADMISSION RECOMMENDATIONS**

**English:** 4 years (8 terms) - composition, literature, speech

**Math:** 3 years (6 terms) - 2 years (4 terms) of algebra, including higher algebra, and 1 year (2 terms) of geometry; or Integrated 1, 2, & 3

**Science:** 3 years (6 terms) 1 year (2 terms) each of a biological science and a physical science and all 3 courses with lab experience.

**Social Sciences:** 3 years (6 terms) - 1 year (2 terms) U.S. History, along with other courses in the social sciences.

**The Arts:** 1 year (2 terms)

**World Language:** 2 years (4 terms) of a single world language.

## **COLLEGE/CAREER PLANNING RESOURCES**

The **Minnesota Career Information System (MCIS)** is an Internet-based system that combines a wealth of career, educational and labor market information into one comprehensive, easy-to-use exploration tool.

With MCIS, students and clients can:

- Learn about over 500 occupations
  - Develop a personal portfolio
  - Research colleges, universities and career schools
  - Find scholarships and financial aid
  - Improve job search skills and create a resume

\*\*Also provides ACT practice testing

The **Internet System for Education and Employment Knowledge (ISEEK)** is a web-based gateway to Minnesota career, employment, education, and business development information and services. The Internet system helps you make smart choices about careers, employment, education, and business growth.

**ISEEK** provides information in four main areas:

- explore careers
- plan your education
- find a job
- grow your business

[www.iseek.org](http://www.iseek.org)

*Websites links can be found on the BHM web page.*

# Agriculture

Agriculture courses at BHS include a wide variety of topic areas including: pets, livestock, fish, landscaping, construction, Ag Business, and leadership. Students will use texts and hands-on experiences to learn firsthand about the many facets of the agriculture world. Read each course description for a detailed synopsis of class topics and experiences covered in each class. Challenge yourself to hands-on learning and a chance to “show what you know” in cool laboratory exercises. This year we are offering two types of college credit. First, successfully complete Animal Science and Companion Animal Science with a grade B or higher and receive free credits at selected community colleges. Second, students who successfully complete CIS Animal Science will receive 4 free credits from the University of Minnesota (transferable to any college).

## 2023 Veterinary Science

Veterinary Science is an advanced animal science class, coordinated through local colleges and Cornell University. Veterinary science students will learn: safety and sanitation, veterinary terminology, anatomy and physiology of certain pet animals, clinical examination procedures, animal hospital procedures, office management procedures, parasitology, posology, laboratory techniques, animal nutrition, animal diseases, animal management and career exploration. Students have the opportunity to join the local FFA Chapter and challenge themselves and their peers to an academic/skills contest using small animals.

**Prerequisites:** Animal Science Technology, Companion Animal Science and General Biology

Grades: 10-12      Terms: 1

## 2010 Aquaculture

Fish farming is one of the fastest growing segments in production agriculture. Students in this class will learn about raising fish for food and profit. Learn how to grow tilapia, trout, catfish, perch, walleyes and more. Learn about pond culturing and recirculation systems. Students will travel to the fish farm 2 times a week for active laboratory exercises.

Grades: 9-12      Terms: 1

## 2016 Companion Animal Science

This course focuses on the multi-billion dollar companion animal industry, which includes the study of dogs, cats, horses, fish, birds and exotic animals. Topics include selection, breeding, reproduction, nutrition, health, behavior, training, showing and animal welfare. This is a wonderful class for students interested in careers such as veterinary medicine, training, sales, or research. It also fits the needs of pet owners. Students can compete in judging contests, science fairs and awards programs. Students will conduct research and communicate findings on a controversial topic. \*This course meets the University of Minnesota science entrance requirement. One of 2 courses required to receive college credit at selected Minnesota Community Colleges.

Grades: 9-12      Terms: 1

## 2015 Animal Science

This course is an introduction to the production and care of domestic animals. Primary species that will be studied include beef, sheep, hogs, dairy cows and horses. Some time will also be spent studying deer, ostrich, and aquaculture. This course is intended for any student interested in veterinary medicine, livestock production, hobby farms, and related industries. Topics will include the importance of animals, selection, nutrition, reproduction, behavior, training, showing, processing and marketing. \*Meets the University of Minnesota science entrance requirement. One of 2 courses required to receive college credit at selected Minnesota Community Colleges.

Grades: 9-12      Terms: 1

## 2020 Landscaping

This course is designed to introduce students to the diverse field of plants and landscaping. Students will spend ½ the class periods outdoors building retaining walls, patios, and general landscape activities. Other topics covered include: plant anatomy, propagation, reproduction, flowers, vegetables, trees, shrubs, surveying, lawn ornaments, landscape design and career opportunities as they relate to the floral,

landscaping and golf course industries. Students will design a golf course and spend time working with plants in a greenhouse.

Grades: 9-12                      Terms: 1

### **2019 Horse Science and Management**

This class will deal specifically with topics of equine science and management including: safety, handling, grooming, training, biology, care, behavior, diseases, nutrition, identification, judging, and marketing. Whether you have a horse or not, this class is for you. All you need is a genuine interest in animals.

Grades: 9-12                      Terms: 1

### **2017 FFA/Youth Leadership**

Learn how to be a leader, properly run a meeting, and use verbal and non-verbal communication techniques. This class focuses on leadership techniques. Whether you are a committee member or the president of an organization, this class will teach you problem solving techniques such as conflict resolution, group maintenance, and consensus building. You will learn Parliamentary Procedure as it pertains to orderly meetings. You will be expected to demonstrate effective speaking and listening skills. This class will use FFA as the vehicle of instruction. Students will learn the FFA creed, FFA motto, as well as the aims and purposes.

Grades: 9-12                      Terms: 1

### **2014 Agricultural Construction**

This course is an introduction to agricultural buildings and facilities used for livestock, crop production and storage. It is primarily a hands-on experience in the design and construction of a small storage building. Students will learn tool safety, blueprint reading, cost estimating, and selection of building materials. All students will learn the step by step construction process. Students will work cooperatively in a group and analyze the building upon completion.

Grades: 10-12                      Terms: 1

### **2011/2012 CIS Animal Science /Advanced Animal Science**

Designed for students interested in further exploration of animal production, care, and marketing. Students will have the opportunity to learn specific management techniques and to explore emerging technologies related to modern animal production. Class projects will be used to promote student participation in science fairs, competitions, and recognition programs. Students will assess the environmental impact of an agricultural innovation/issue by presenting cost-benefit risk analysis and conveying their findings to other classmates. \*Meets the University of Minnesota science entrance requirements. **Note: This class is designed by the University of Minnesota college professors and taught by BHS teachers. This course has the rigor of its corresponding class (AnSci1101). Upon successful completion of the course, students earn .5 credit toward high school graduation as well as 4 credits on a University of Minnesota transcript.**

**Prerequisite:** Animal Science, biology, top 50% of class (if taken for U of MN credit)

Grades: 10-12                      Terms: 2

### **2018 Home and Farmstead Improvement**

This course provides a hands-on introduction in carpentry, plumbing, landscaping, interior design, painting, and equipment maintenance so that students can do improvements and repairs on their own home/farm. Students will be able to analyze a situation, interpret information, and follow a step by step procedure to follow the selected plan of action.

Grades: 10-12                      Terms: 1

### **2021 Natural Resources and Wildlife Management**

Students will develop skills related to management of our natural resources with an emphasis on wildlife, forest, wetlands, waters, and soils. Students will study the natural ecosystems and the effect human intrusion has had on wildlife populations. They will study how to maintain the balance between hunting, commercial, and recreational use while at the same time conserving our natural heritage.

Grades: 10-12                      Terms: 1

### **2013 Agribusiness Management**

This course is an introduction to the major functional areas of an agricultural business enterprise, and related career opportunities. Course topics include business organization, accounting, finance, marketing, sales, production and customer relations. Students will research an agricultural product and follow its marketing channels from the onset to the consumer.

Grades: 11-12      Terms: 1

### **2022 Supervised Agricultural Experience Program**

This class is for those students who have production or placement agricultural enterprise projects. Students will keep a detailed recordbook/portfolio including daily activities, income and expenses as they relate to their project. Students will complete the FFA Proficiency Award application pertaining to their project. This is a 12-month calendar year (Jan.1-Dec. 31) project. Students will be encouraged to participate at the local fairs or other public events. Students will research and study skills, technical information, current work related laws, projected employment outlook, and individual career strengths as they pertain to their specified project area. Students will meet with the instructor during AAA and during the summer to report progress. Students must be in FFA and must have instructor's permission.

**Prerequisites:** FFA for 2 years

Grades: 12      Terms: 1

## **Art**

The art department at BHS believes the following:

- **Art is the language we use to communicate ideas and emotions. We need to learn to use this language to read and enjoy other people's artwork and to send our own messages.**
- **Art is not reserved for the talented few. Everyone has the capability and right to be creative and produce art.**
- **The art we create is a reflection of the world we live in, the people we know, and our own values and beliefs.**
- **The process of creating an artwork can be just as important as the product - sometimes it is more important.**

**In art classes students will be given the opportunity to experiment with various art media, learn about artists and their philosophies, and develop their own creative "voice". Everyone can create art.**

### **2502/2503 Art I**

Art I is a prerequisite for all other high school art courses. Students will learn about the art elements and principles of design and apply these concepts to their own studio experience. Students will gain a better understanding of artists and their artworks. The experience allows students to work with a broad range of art materials including clay, acrylic paint, plaster, scratch board, block printing, and drawing tools.

Grades: 9-12      Terms: 2

### **2508 Drawing I**

Students in the class learn drawing and composition skills. We will use graphite and colored pencil, pastel, craypas, and ink to create artwork inspired by the world around us, other artists and our own imagination. Students keep a daily sketchbook and draw from real life and photographs. Various artists are studied for inspiration.

**Prerequisite:** Art 1

Grades: 10-12      Terms: 1

### **2511 Painting I**

Students in Painting 1 experiment with a variety of painting media and subject matter. We will create a watercolor landscape, abstracted designs in tempera, an acrylic still life, and a self-portrait. Artists and their design styles are used as inspiration for each project.

**Prerequisite:** Art 1

Grades: 10-12      Terms: 1

### **2504 Ceramics & Sculpture I**

This class is an introduction to a variety of three-dimensional materials including clay, balsa foam wood, and plaster. For inspiration, students will study specific artists and art styles. Students will use the principles of art that are taught in Art I in a variety of problem solving sculpture assignments. The students will gain knowledge of the technical processes involved with each material.

**Prerequisite:** Art 1

Grades: 10-12                      Terms: 1

### **2512 Painting II**

Students in this class create paintings that reflect an artist's search for a personal "voice", both in style and message. Through the study of historical events, famous artists, and significant art styles, students will gain insight into why and how artists paint and draw. We will work with several media - a symbolic collage and acrylic painting, a landscape, a theme and variation painting, a still life of personal treasures, and a self portrait.

**Prerequisites:** Art 1, Drawing 1 and Painting 1

Grades: 10-12                      Terms: 1

### **2509 Drawing II**

This class is designed to continue exploring the fundamentals of drawing in order to achieve higher level drawing skills. Students will develop visual and aesthetic perception through a variety of drawing exercises and projects. The class will work with charcoal, pastels, pencil and pen/ink. A variety of subject matter will be explored.

**Prerequisites:** Art I and Drawing I

Grades: 10-12                      Terms: 1

### **2505/2506 Ceramics & Sculpture II**

This class is designed for the student who is dedicated to pursuing higher level three-dimensional art. In this challenging class, students will be guided to find their artistic "voice" in three-dimensional work. The students will be required to produce work on the pottery wheel. The students should come into this class with working knowledge of the technical processes of clay.

**Prerequisites:** Art 1 and Ceramics & Sculpture I

Grades: 10-12                      Terms: 2

### **2510 Jewelry and Small Sculpture**

Throughout time and across cultures people have used jewelry as a status symbol, to honor achievement and to celebrate important events in a person's life. Students in this course will create jewelry and small sculptures that reflect the designs and traditions of six cultures: Egyptian, Vikings/Celtic, Mexican, Native American, the 70's and their own culture. We will work with traditional clay, polymer clay (Sculpty III), copper and brass wire, pewter, hemp, purchased and handmade beads.

**Prerequisites:** Art 1 & Ceramics 1

Grades: 10-12                      Terms: 1

### **2501 Animation**

In this course students will develop their understanding of the animation field and its history. Students will develop their animation skills through storyboard creation and various collaborative projects. Emphasis will be placed on creative experimental animation using digital cameras. Drawing skills are helpful but not required.

**Prerequisite:** Art 1

Grades: 11-12                      Terms: 1

### **2507 Ceramics III**

In this advanced ceramic class, students will study and create a wide variety of functional clay vessels. Some forms that will be explored include bowls, cups, vases, platters, mugs, plates, and teapots. Work on the pottery wheel is required. Other artists and cultures will be viewed for inspiration to guide the work. The student's own past experiences will also guide their work's direction. Students should come into this class with a solid background in clay ceramic construction and glazing techniques. Students entering this

class are expected to be proficient on the pottery wheel. Students will have daily reading and journal assignments.

**Prerequisites:** Art 1 & Ceramics & Sculpture I & II

Grades: 11-12                  Terms: 1

## **Business & Computer Technology**

Computers and working in a business is in your future. Be prepared! A large number of students also end up majoring in a business field. We want to prepare students for future classes in high school and beyond. Students can also prepare for work in careers such as marketing, advertising, office management, general business, finance, accounting, office support personnel, and graphic design through hands-on and real world applications. *\*Many courses have been articulated with 2-year post secondary institutions. Articulation provides high school students with college credit if they attend that institution.*

### **3015 Word Processing**

Skills you will use and never lose!! This class provides an understanding of the BHS computer system including class email accounts, server/folder storage, and media center research sources. Students will be introduced to appropriate formatting of personal and school documents by developing proficiencies in word processing (Microsoft Word) and presentation applications (Microsoft PowerPoint). Keyboarding technique will also be reinforced throughout the course. This is a “must have” class allowing students to transfer essential computer skills to other academic areas (i.e. reports in English, presentations in social studies, resumes for career, etc.). Learn these skills now to save time and improve grades in high school and college coursework with fast and accurate computer output and professional presentations. This class is a prerequisite for all other computer applications courses in the Business Department and recommended for all students. *\*Prepares students for BPA competitions.*

Grades: 9-12                  Terms: 1                  **\*Articulated college credit**

### **3016 Intro to Office Applications**

This course will provide valuable, practical, and “how to” experience in using Excel, Access, Publisher, PowerPoint, and Word. Learn to operate computers more efficiently and develop skills that will allow you to enhance projects in your other classes. Develop flashy brochures and newsletters. Create a spreadsheet with an eye-catching corresponding chart that will make your projects sparkle. Create a personal database to store data about your CD’s or gaming systems. Integrate the programs to mail merge for mailing labels and invoices. Expand your knowledge regarding computers in today’s ever-changing technological world. *\*Prepares students for BPA.*

**Prerequisite:** Word Processing

Grades: 9-12                  Terms: 1                  **\* Articulated college credit**

### **3011 Advanced Office Applications**

Build onto your introductory computer skills. This course will expand on skills developed in Intro to Office Applications. Macros will be introduced and handwriting technologies will be investigated. Students will work with multiple spreadsheets and advanced calculation features in Excel and Access. Use of the recording feature and incorporating sounds will be implemented in a PowerPoint presentation. Students will also create their own published work in Publisher. *\*Prepares students for BPA competitions.*

**Prerequisite:** Intro to Office Applications

Grades: 10-12                  Terms: 1

### **3009 Computer Graphics**

Get your cameras ready! Take a picture and add your own special flare. Use Photoshop to take someone out of a picture to put into a different one. Learn how to touch up photos, add a color accent, and change colors of objects. Students will also be introduced to illustrator to draw line drawings like cartoons and logos. Finally, InDesign will be explored. Students will learn how to lay out a newsletter with columns and how to integrate all three Adobe programs to make a professional booklet. This course will introduce

students to skills that may be used in any class, but especially for those who may become involved in yearbook, school newspaper, or web design. *\*Prepares students for BPA competitions.*

Grades: 9-12                      Terms: 1

### **3010 Computer Graphics II**

Design your own T-shirt and cell phone cover. Advance your PhotoShop, Illustrator and InDesign skills through exploration of typography and graphics to create a variety of projects that may include CD covers, posters, and logos. Students will also explore Movie Maker to create an animated movie from still pictures manipulated in PhotoShop. *\*Prepares students for BPA competitions.*

**Prerequisite** Computer Graphics

Grades 9-12                      Terms 1

### **3021 Web 1 - Introduction**

Want to design an eye-catching web page? Then this is the class for you. Concentrate on flashy designs and creative layouts. Learn the fundamentals of editing images, of the HTML tagging language, and of graphic editing software. Using an editor and graphics editing software, you will create images, gather text, and put them all together to create dynamic web pages.

**Prerequisite:** Word Processing                      *\*Prepares students for BPA competitions.*

Grades: 10-12                      Terms: 1

### **3022 Web 2 - Multimedia**

Want your own .COM? Come use Flash, Photoshop, and Dreamweaver to express your creative self. This course will build on the fundamentals developed in Intro to Web. Use of multimedia to enhance layout, navigation and interactivity will be stressed. *\*This course prepares students for BPA competitions.*

**Prerequisite:** Intro to Web Page Design

Grades: 10-12                      Terms: 1

### **3023 Web 3 - Applications**

Sell your .COM! Gain real world experience by determining needs of local businesses and producing them a functional website. Develop a relationship with a local business or organization to help them create or update their web presence. Learn how to make money doing something you love. *\*Prepares students for BPA competitions.*

**Prerequisite:** Web Page II with "C" or better

Grades: 11-12                      Terms: 1

### **3018 Computer Networking I**

So how does a network actually work? How does an e-mail message get sent from one user to the next? Find out how computers communicate with each other to create the vast world of the Internet. Working online, you will be learning how a LAN network is organized and set up, while constructing a working LAN network within the classroom. This curriculum follows the Cisco Networking Academy course designed to train students for working on Cisco networks. This course is recommended for those who are interested in learning the basics of networking computers. Students may be prepared to test out of college courses at Anoka Ramsey Community College at the end of Networking II.

Grades:10-12                      Terms: 1

### **3019 Computer Networking II**

You will continue to discover the in-depth workings of a fully functional network. This course expands on what is learned in Computer Networking I. Router configuration and setup will be emphasized in this course. This course is also the second part of a four-part course. Students may be prepared to test out of college courses at Anoka Ramsey Community College at the end of Networking II.

**Prerequisite:** Computer Networking I with a "C" or better

Grades: 10-12                      Terms: 1

### **3020 Computer Networking III**

The third course in the series. You will develop, design and create a LAN network that will be tested and fully functional. You will also learn how to troubleshoot and locate errors and problems on an operating

network. You will be eligible to get college credit at Anoka Ramsey Community College by passing this class.

**Prerequisites:** Computer Networking I & II with a “C” or better

Grades: 10-12            Terms: 1

### **3024 Law and Order**

Are you curious about the law and how it affects you? Come take a tour of the American legal system. This course is designed to inform students of their rights and obligations in business and personal encounters. Topics will include criminal and civil law, the state and federal court systems, youth and the legal system, negligence, as well as ethics and values. *\*Prepares students for BPA competitions.*

Grades:10-12            Terms: 1            **\* Articulated college credit**

### **3017 College and Career Prep**

College is expensive and selecting a career and getting a job is harder than ever. This course will help you make these major decisions and prepare for your future! Explore the world of work, explore careers in numerous areas, gain skills in interviewing and prepare a working résumé and cover letter. Create a career/college portfolio where you relate your personal skills, aptitudes, and abilities to careers. Complete college entrance forms, scholarship applications and financial aid forms. This course is designed for juniors and seniors who plan to enter the workforce after school or attend a post-secondary educational institute.

Grades: 11-12            Terms: 1

### **4010 Personal Financial Management**

Could you be a MILLIONAIRE? Go through a simulation of your future and see how easy it is to reach financial goals. Get a job, make money, invest your money wisely, shop for cars, an apartment, homes, insurance and of course, learn how to become a MILLIONAIRE. We will take a look at credit cards and other credit and see how they can actually work for you. Create a budget and use banking e-accounts to reach your financial goals. Prepare to live on your own!

Grades: 10-12            Terms: 1

### **3026 Introduction to Business**

Students will be introduced to each of the many important and exciting facets of business practice – from management to marketing to entrepreneurship and international business. Students will take a look at business in a changing world by exploring companies like Abercrombie & Fitch, Hollister, Target and Best Buy. The course is designed to help students determine their interest level in business and to gain an insight to various career opportunities. Students will have the opportunity to manage their own simulated business. *\*Projects in this class are used to compete in DECA.*

Grades: 9-10            Terms: 1            **\* Articulated college credit**

### **3012 Accounting I**

Money is the name of the game for every business. Work with a sample service business to discover how a business runs and makes a profit. Accounting courses are a must for every student. If you want to learn how to make money or if you are interested in a business degree after high school, this course is vital *\*Prepares students for BPA competitions. \*Projects in this class are used to compete in DECA.*

Grades:10-12            Terms: 1            **\* Articulated college credit**

### **3013 Accounting II**

Does your future include working for someone else or running your own business? Then you need this course. Gain essential experience and knowledge necessary to be successful in managing the finances in a business and knowledge to prepare you for college-level accounting classes. Through the use of a real-life simulation, students will learn the accounting process for a retailing company through recording entries and creating financial statements.

*\*Prepares students for BPA competitions. \*Projects in this class are used to compete in DECA.*

**Prerequisite:** Accounting I with a “C” or better

Grades: 10-12            Terms: 1            **\* Articulated college credit**

### **3014 Accounting III**

Students are introduced to automated accounting using computer programs. Students will learn how to automate the tasks of journalizing, posting, and creating financial statements.

**Prerequisite:** Accounting I & II with a “C” or better

Grades: 10-12 Terms: 1

### **3027 Marketing**

Do you enjoy keeping up on current events in the sports, entertainment, or fashion industries? Learn how marketers persuade and advertise through the principles of marketing. Using a variety of activities, learn about the marketing mix, research process, and social responsibilities of marketing. *\*Prepares students for BPA competitions. \*Projects in this class are used to compete in DECA.*

Grades:10-12 Terms: 1 **\* Articulated college credit**

### **3028/3029 Entrepreneurship: School Store**

Join the Herd! This class will give students the opportunity to experience all aspects of starting and running a business. Students will learn the theory behind the management, operation, marketing, finance, and inventory of a business, and then will put them into practice. As a member of this class, students will be responsible for opening and running the school store, the Herd Hut, before and after school throughout the term. Students will also sign up for the DECA business student organization, which will allow them to compete with students from other schools in business related competitions *\*Prepares students for BPA competitions. \*Projects in this class are used to compete in DECA.*

**Prerequisite:** At least 2 Business & Computer Technology courses excluding Word Processing and Law & Order. Application for employment must be submitted & approved by Business & Computer Technology department before registration.

Grades:10-12 Terms: 1

## **English**

**Our English courses offer a variety of experiences with language including literature, speech, writing, media, and production classes. Students will receive opportunities to read and react to classic and contemporary literature and non-fiction selections, as well as develop their own voices in different formats. The overriding goal of the curriculum is to develop solid readers and writers with critical thinking skills who desire to be life-long learners.**

### **3500/3501 English 9**

*NCAA approved*

This course is centered around process writing and multi-genre literature. The writing study focuses on the writing process and the creation of numerous five-paragraph essays. Literature study includes the short story, drama, and novel – along with an examination of media literacy. Outside-of-class reading is required.

Grades: 9 Terms: 2

### **3504/3505 English 10**

*NCAA approved*

This course is the study of effective writing and the study of world authors and their writings. The writing section of this course will include creative and theme writing. The literature section of this course will focus on numerous genres of literature. Students are evaluated via tests, portfolios, daily assignments, and quarterly outside reading projects.

**Prerequisites:** English 9

Grades: 10 Terms: 2

### **3530 Stage Acting I**

*Research & Speech Standard*

Students are introduced to the basic skills of improvisational acting, movement and blocking, voice production, character development, and script analysis. Performances for the class will include group pantomimes, reader’s theater, a two-person scene, and a monologue.

Grades: 9-12 Terms: 1

**3531 Stage Acting II***Research & Speech Standard*

Students further develop the skills of improvisational acting, movement, blocking, voice production, character development, and script analysis. Fundamentals of direction will also be included with each student directing a short two-person scene. Performances include two-person scenes, monologues, and a one-act play, which will be performed for students outside the class.

**Prerequisites:** Stage Acting I

Grades: 9-12

Terms: 1

**3513/3514 Drama as Literature***Research & Speech Standard**NCAA approved*

This course focuses on reading and examining classical world drama from the birth of Greek drama to modern-day absurdist. This is not an acting class; students will read, discuss, write essays, give presentations, and take tests on the plays.

Grades: 10-12

Terms: 2

**3529 Speech Communications***Research & Speech Standard**NCAA approved*

This class is designed to develop organization, outlining, speaking, and critical listening skills. Basic pre-writing/speaking techniques such as research, outlining, and final drafting are included. Speech types include introduction, demonstration, informative, persuasive, impromptu, and extemporaneous speeches as well as an independent book talk. This class presumes a willingness to speak publicly.

Grades: 10-12

Terms: 1

**3516/3517 Journalism***Research & Speech Standard**NCAA approved*

Journalism is a writing workshop that supports the newspaper at Buffalo High School and beyond. The majority of the class-time is based on writing projects including news, features, documentaries, sports, investigative, and editorial writing – with an emphasis on conducting interviews and publication. Other writing assignments include creative writing and technical writing. To improve writing, students are also asked to develop an independent reading program and keep a journal.

Grades: 9-12

Terms: 2

**3518/3519 Journalism II***Research & Speech Standard*

Journalism II is designed to be an extension of the Journalism I and Publications Writing programs. Journalism II takes off where those two classes end. It focuses on creating daily New Media content designed for both online and print production. In this hands-on class, heavy emphasis is placed on advanced layout and design techniques, visual design, digital imaging, online production, and first hand reporting. In addition to being production based, Journalism 2 focuses on building a strong knowledge base and elements of ethical and decision making, time management, trend analysis, and other academic areas. This class will feature an even split of production time and classroom learning.

Grades: 11-12

Terms: 2

**3535 Women in Literature***Speech Standard**NCAA approved*

This literature discussion class will focus on works by respected female authors and/or featuring female protagonists. We will examine how literature reflects vital issues from a variety of perspectives with 3 class novels and 1 individual choice novel. As in all literature courses, this class will require extensive reading, in and outside of class. Students will also be graded on their in-class discussions of these readings. Additional student assessments will include essays and written exams.

**Prerequisite:** English 10

Grades: 10-12

Terms: 1

**3515 English Grammar and Usage***NCAA approved*

English Grammar and Usage is a one-term course focusing on language and composition skills such as sentence structure, punctuation, and proper usage. These skills will be addressed in relation to the writing process. Through instruction and guided practice, the students will identify their needs as writers and work to sharpen their skills and strengthen their weaknesses. This course will not only benefit students wishing to address their basic writing needs, but also help prepare students for the English sections of various college entrance exams.

Grades: 9-12

Terms: 1

**3524/3525/3526 Publications Writing (Yearbook) *Research Standard***

This is an advanced class that allows students to perfect their writing by meeting national standards for publication. Emphasis will be placed on writing journalistic copy, including research, surveys, interviewing techniques, feature stories, headlines, and captions. Extensive revisions will be necessary during the writing process. In addition, students will be assigned articles, essays, writing style practice, and grammar quizzes. Self-motivated independent learners must be recommended by a faculty member and must be willing to meet college-level writing standards.

**Prerequisite:** Teacher Approval

Grades: 11-12      Terms: 3

**3520 Mass Media A: Introduction to Mass Media *Research Standard NCAA approved***

Students will examine the effect of mass media on their lives. We will take a quick look at the history of media, including news, music, and radio industries. The course will analyze how those forms of media are evolving, and will ask students to identify and research current issues and future trends in media. Note-taking, reading, daily work, unit exams, group projects, and journaling are each significant parts of this course. This course addresses MN state standards of media literacy and research, and students will be required to complete a research project to earn course credit.

**Prerequisite:** English 10

Grades: 11-12      Terms: 1

**3521 Mass Media B: Media Literacy *Research & Speech Standard NCAA approved***

Students will further explore the effects of mass media on their lives. We will explore the background and history of television, current topics involving mass media, television, and advertising. Note-taking, outlining, critical reading, unit exams, and discussion are all significant parts of this course. Students will complete an independent research project, stressing inquiry techniques and presentation skills.

**Prerequisite:** Introduction to Mass Media

Grades: 11-12      Terms: 1

**3522/3523 Classic Novel *Speech & Research Standard NCAA approved***

Classic Novel is an accelerated course that requires both skill and discipline. The course concentrates on themes from several classic novels and is designed to actively engage students in the process of learning about themselves and the world around them. To participate effectively students are expected to complete daily out-of-class reading assignments. Novels will be assigned through class discussions, role-playing exercises, and various writing activities. Students will be assigned novels from the following list: *The Scarlet Letter*, *All Quiet on the Western Front*, *The Great Gatsby*, *The Plague*, *My Antonia*, *A Christmas Carol*, *The Old Man and the Sea*, *Jane Eyre*, *A River Runs Through It*, *Billy Budd*, and *The Grapes of Wrath*.

Grades: 11-12      Terms: 2

**3510 Short Stories Seminar *Speech Standard***

*NCAA approved*

This course is designed to be an extension of the American Literature and Composition course, with a focus on multi-cultural literature. Students will read and study a variety of literature written by and about different cultures, focusing on their perspectives, challenges, and experiences. The class will include reading (as homework), class discussions, writing activities, and projects.

**Prerequisite:** English 10

Grades: 11-12      Terms: 1

**3511/3512 Contemporary Literature *Speech & Research Standard NCAA approved***

Contemporary Literature explores the poetry, short stories, novels, and plays from the 1940's to the present. Nicknamed the "Age of Crisis", much of the literature deals with controversial issues, including the search of self, the pursuit of happiness in a world that limits that pursuit, and the forces that oppose individuality. The course is designed around a variety of literary skills and strategies, including analysis, interpretation and evaluation, as well as literary discussion, critical reading, debate, and creative writing.

**Prerequisite:** English 10

Grades: 11-12      Terms: 2

**3532/3533 Theatre Production** *Speech & Research Standard*

Students will individually follow through the entire directorial process: researching playwrights, researching plays, designing sets and costumes, creating publicity, preparing and holding auditions, casting their plays, and blocking and performing scenes. Please note: This class does not include a complete performance of each student's play. A willingness to perform, explore, and create is required, as well as a great deal of planning and writing. This course involves several major projects and a major portfolio.

**Prerequisites:** Stage Acting I or teacher approval

Grades: 11-12      Terms: 2

**3508/3509 American Literature and Composition** *Research and Speech Standard NCAA approved*

American Literature is designed to introduce students to a thematic survey of our literary heritage using short stories, essays, poems, novels and drama. Students will be engaged actively in the process of learning and will complete a variety of writing assignments and practice the writing process. American Literature is important for all students because it is both a basic study of our American literary and cultural heritage and a good background for more advanced literary endeavors.

**Prerequisite:** English 10

Grades: 11-12      Terms: 2

**3527/3528 College Prep Writing and Critical Reading**

*Research & Speech Standard*

*NCAA approved*

This course will focus on developing students' writing skills to prepare them for advanced writing at a college-level standard. Intensive writing instruction will include pre-writing techniques, organization of thought, analysis of writing styles, peer conferencing and annotation, and correct grammar and mechanics. **Students who register should have good writing skills and be prepared to invest time outside of school on writing and revising their work.** The course will require students to share their writings in class critique sessions. This will not be a "creative writing" course; most emphasis will be placed on expository essays, including a personal narrative, ethnography, casual analysis, and critical review.

**Do not register for this class if you have successfully completed or plan to take CIS Writing and Critical Reading.**

Grades: 11-12      Terms: 2

**3541/3542 College in the Schools (CIS) Writing and Critical Reading**

*Research & Speech Standard*

*NCAA approved*

This course will focus on developing students' writing skills to prepare them for advanced writing at a college-level standard. Intensive writing instruction will include pre-writing techniques, organization of thought, analysis of writing styles, peer conferencing and annotation, and correct grammar and mechanics. **Students who register must have advanced writing skills and be prepared to invest time outside of school revising their work.** They will also be responsible for assignments from college-level texts, as well as mandatory meetings at the University of Minnesota. Emphasis will be placed on expository essays, including a personal narrative, ethnography, casual analysis, and critical review. **CIS students: This class is designed by the University of Minnesota professors and taught by BHS teachers. This course has the rigor of its corresponding class Writ 1301. Upon successful completion of the course, students earn .5 credit toward high school graduation as well as 4 credits on a U of MN transcript.**

Do not register for this class if you have successfully completed College Prep Writing .

**Prerequisite:** Top 20% of senior class

Grades: 12      Terms: 2

### **3543/3544 College in the Schools (CIS) Introduction to Literature**

*Research & Speech Standard*

*NCAA approved*

Introduction to Literature is a course primarily focused on 20<sup>th</sup> Century multi-cultural literature. Students will acquire the tools and procedures necessary for the interpretation and analysis of fiction, poetry and drama. Students will be required to share their interpretation of the readings in concise and in-depth written notebook entries as well as through classroom discussion. This course will require a great deal of out-of-class reading and writing, and should be taken by students with strong literary and composition skills who are willing to invest the required time and effort. **CIS Students: This course is offered through the University of Minnesota and taught by BHS teachers. This has the rigor of of its corresponding class EngL1001W. Upon successful completion students earn .5 credit toward high school graduation as well as 4 credits on a U of MN transcript.**

**Prerequisite:** Top 30% of junior or senior class

Grades: 11-12      Terms: 2

### **3534 Stage Acting and Playwriting**

*Speech Standard*

Students further develop the skills of improvisational acting, movement, blocking, voice production, character development, and script analysis. In addition, they will examine the differences between a literary work and a stage or film adaptation of that work, study the fundamentals of playwriting, and then write their own stage adaptation of an Anton Chekov story. Selected adaptations will then be cast from within the class, rehearsed and performed for students outside of the class.

**Prerequisite:** Stage Acting II

Grades: 10-12      Terms: 1

### **3536 Creative Writing Ia**

*Speech Standard*

*NCAA approved*

The purpose of this composition course is to develop students' writing and language skills needed for composing poetry. Course content includes the writing process, forms of poetry, writing strategies, rhetorical devices, habits of mind, performance skills and evaluation techniques. The course requires students to be interested in the technical aspects of publishing (desktop and web-based publishing) and live performance.

**Prerequisites:** Course application and submission of a writing sample

Grades: 10-12      Terms: 1

### **3537 Creative Writing Ib**

*Speech Standard*

*NCAA approved*

The purpose of this composition course is to develop students' writing and language skills needed for composing prose-short fiction and memoir. Course content includes the writing process, forms of prose, writing strategies, rhetorical devices, habits of mind, performance skills and evaluation techniques. The course requires students to be interested in the technical aspects of publishing (desktop and we-based publishing) and live performance.

**Prerequisites:** Course application and submission of a writing sample

Grades: 10-12      Terms: 1

### **3540 Creative Writing II**

*Speech Standard*

The purpose of this course is to further develop students' writing and language skills needed for individual literary forms. The content may include writing a variety of literary works including poetry, fiction, playwriting, and creative non-fiction. The students will choose which genre of writing to concentrate on, although they are required to work in all genres, and work in small writing groups to help in the writing process. The course requires the technical aspects of publishing and live or recorded performances of students' works as well as strong self-motivation, independent work ethic and self-monitoring.

**Prerequisites:** Creative Writing I

Grades: 11-12      Terms: 1

# Family and Consumer Science (FACS)

Family and Consumer Science classes teach research-based skills you will use now and throughout your life – skills for making the big decisions of life about:

- Food, nutrition and wellness
- Designing interior spaces
- Managing money
- Families, parenting & human development
- Creating clothing and accessories
- Interpersonal relationships
- Careers

Many courses offer free college credit when students earn an A or B.

## Possible Career Pathways

### **4003 Creating Interior Spaces**

In this course, you will learn about the important components of a well-designed room using the elements and principles of design. You will be able to judge effective interior design and create a variety of interior design projects. Learn about the many careers in the field of interior design. This class counts as a fine arts elective credit for graduation.

Grades: 10-12

Terms: 1

*Visual Arts  
Design/Pre-Construction  
Consumer Services  
Lodging*

Suggested follow-up course:

### **7002 Architectural (House) Drawing**

Grades: 10-12

Terms: 1

*Construction  
Design/Pre-Construction  
Maintenance/Operations*

### **4010 Personal Financial Management**

Do you have the skills and resources to live on your own? This course will explore the financial facts of life. Learn how to develop a personal spending plan, find a place to live, buy a car, file a tax return, grow your money through compound interest, obtain and use credit wisely, purchase a home, and consider what you want your life to look like. Includes discussion of insurance, banking services, payroll deductions, careers, how personal values impact financial decisions, and how money issues affect relationships and families. College credit available through St. Cloud Technical College.

Grades: 10-12 Terms: 1

*Banking & Related Services  
Financial and  
Investment Planning  
Insurance Services  
Consumer Services*

### **4004 Creative Foods**

If you enjoy working with foods, this class will appeal to you. Through menu planning, cooking and sampling a variety of foods, students acquire basic food, nutrition, and preparation skills. Some favorites include cinnamon rolls, pasta, stir fry, and omelets. College credit available through St. Cloud Technical College when both Creative Foods & Gourmet Foods are completed.

Grades: 9-12

Terms: 1

*Restaurants and  
Food/Beverage Services  
Food Products and  
Consumer Services  
Food Science  
Processing Systems  
Health Informatics  
Health Science Support Service*

#### **4005 Gourmet Foods**

This course is designed for students interested in learning more complex food preparation techniques. Continue developing your cooking skills while preparing a variety of recipes. Learn about soups, meats, poultry, cake decorating, and pies. Includes a study of healthy eating. College credit is available through St. Cloud Technical College when both Creative Foods & Gourmet Foods are completed

*Creative Foods recommended.*

Grades: 10-12

Terms: 1

*Restaurants and  
Food/Beverage Services  
Food Products and  
Consumer Services  
Food Science  
Processing Systems  
Health Informatics  
Health Science  
Support Services*

#### **4006 International Foods**

This course is designed for the student interested in learning the cooking techniques and tasting the foods of other countries and regions of the US. Learn how international flavors and other cultures have influenced our “American” cooking.

*Creative Foods or Gourmet Foods recommended.*

Grades: 10-12

Terms: 1

*Restaurants and  
Food/Beverage Services  
Food Products & Processing  
Systems  
Health Science Support Services  
Health Informatics  
Food Science  
Consumer Services*

#### **4008 Personal & Family Issues 1**

Who you are affects your relationships with friends and family. Learn about you and how to develop healthy friendships and dating relationships while making healthy choices. Learn skills for handling the day to day stress that comes with personal and family issues. Included is a discussion of teen sexuality, contraception, and teen pregnancy. *Not open to students who have already completed Teen Issues.*

Grades: 9-10

Terms: 1

*Human Resources  
Counseling and Mental  
Health Services  
Family and Community Services*

#### **4009 Personal & Family Issues 2**

Take a closer look at how you cope and solve problems. Examine your personal and family issues and develop new communication skills for handling life’s pressures. Includes discussion of marriage, divorce, crisis and loss, abusive relationships, and depression and suicide. *Not open to students who have already completed Families.*

Grades: 11-12

Terms: 1

*Human Resources  
Counseling and Mental  
Health Services  
Family and Community Services*

#### **4001 Child Development**

Did you know that you can understand yourself better by learning about child development? Parents and caregivers need knowledge of child growth and development to nurture children and adolescents. Learn about conception, prenatal development, pregnancy, birth defects and childbirth. Learn about parenting when you take responsibility for a computerized infant simulator (Baby). Learn about the physical, emotional, social, intellectual, and moral development of children ages birth to three years old. College credit available through St. Cloud Technical College.

Grades: 10-12

Terms: 1

*Early Childhood Development  
And Services  
Teacher/Training  
Family and Community Services*

### **4002 Clothing I**

Create a sewing project using the basic sewing skills. Personalize your project using the computer embroidery sewing machine. Students have enjoyed creating bags, skirts, and other useful projects. Project materials are provided by the student. Little or no sewing experience necessary.

Grades: 9-11      Terms: 1

*Consumer Services  
Clothing Designer  
Apparel Technologies*

### **4007 Clothing II**

Expand your skills and learn additional sewing techniques and design principles. Use a commercial pattern to plan and construct a unique garment. Consider using a novelty fabric that expresses your unique style. Project materials are provided by the student. Some sewing experience recommended.

**Prerequisite:** Clothing 1 or instructor approval

Grades: 10-12      Terms: 1

*Consumer Services  
Clothing Design  
Apparel Technologies*

## **Health**

**Health is the combination of physical, mental/emotional, and social well-being. Because of this, a person's health is subject to constant change. The health curriculum is designed to provide accurate health information to help students make healthy choices.**

### **5051 Health 10 (required)**

This course is a one term course designed to help the student develop a better understanding of the physical, social, and emotional aspects of human life. The main units of study are staying healthy, the top killers, nutrition and fitness, and responsible choices about drugs and sex.

Grades: 10      Terms: 1

### **5052 Current Health Trends**

Students will look at current topics such as: obesity, diseases, new medical technology, addiction, and reliable Internet sources. The class will vote on additional topics of interest which include: careers in health care, sports medicine, mental health topics, brain research, environmental health, and much more. Class includes discussion, hands-on projects, and research, in addition to the reading and videos.

Grades: 11-12      Terms: 1

## **Math**

### **4515/4516 Math Essentials 3**

Math Essentials 3 continues the coursework covered in Math Essentials 1 & 2. It will cover many algebra topics including correlation between variables, basic power model equations, probability and algebraic reasoning.

**Prerequisite:** Math Essentials 2

Grades: 9-12      Terms: 2

### **4505/4506 Integrated Math 3**

Integrated Math 3 consists of topics in algebra and geometry. Students will be engaged in active learning through group work, class discussions, problem solving and individual work. Graphing calculators will be needed!

**Prerequisite:** Integrated Math 2 (grade of C or higher recommended)

Grades: 9-12      Terms: 2

*NCAA approved*

### **4522/4523 Algebra**

This course is to prepare students for Geometry and Higher Algebra by giving a basic foundation of knowledge to build upon. Topics to be covered include: real number system, graphing on a coordinate plane, solving equations including multi-step equations, formulas, solving inequalities including

*NCAA approved*

compound inequalities, solving and applying proportions, applying statistics and probability, graphs and functions, direct variation, linear equations and their graphs, systems of equations and inequalities, exponents and exponential functions, polynomials and factoring. Each student is required to bring their personal scientific or graphing calculator in order to complete their daily assignments.

Grades: 9-12      Terms: 2

#### **4535/4536 Algebra 1.5**

Algebra 1.5 is designed for students who need more work with basic algebra skills before going into geometry or higher algebra. Topics from algebra will be revisited and new topics from algebra and higher algebra will be introduced.

Grades: 9-12      Terms: 2

#### **4519/4520 Higher Algebra**

*NCAA approved*

This course combines knowledge from first-year algebra and geometry with new concepts involving practical life situations and beginning work on the graphing calculator. Topics to be covered include: solving equations and inequalities, systems of equations and inequalities, functions, graphing, exponents, complex numbers, polynomial functions, logarithms, probability, and statistics.

**Prerequisite:** Algebra

Grades: 9-12      Terms: 2

#### **4517/4518 Geometry**

*NCAA approved*

This course will look at the relationships between points, lines and planes in spatial and plane geometry as well as coordinate geometry. Learning deductive reasoning with the use of postulates and theorems will be the main focus of the first term. Properties of polygons, transformations, similarity, right triangles, area, and volume will be topics for study in the second term.

**Prerequisites:** Algebra (grade of C or higher recommended)

Grades: 9-12      Terms: 2

#### **4521 Trigonometry**

*NCAA approved*

This course is designed for the college-bound student and will help with some of the questions on the ACT test. Topics covered in this course are the unit circle, right-triangle trig, trig identities, graphs of trig functions, radian measure, analytical trig, and many applications.

**Prerequisites:** Higher Algebra or Integrated Math 3

Grades: 10-12      Terms: 1

#### **4533/4534 Pre-Calculus**

*NCAA approved*

Problem solving will be achieved by exploring problems graphically, numerically, and algebraically. There will be extensive use of the graphic calculator throughout the course. Functions will be investigated to determine zeros, extreme values, where they are increasing/decreasing, and points of discontinuity. We will explore exponential and logarithmic functions with their applications to growth and decay problems. Topics in sequences and series may be studied, if time allows.

**Prerequisites:** Higher Algebra and Geometry or Integrated Math 3

Grades: 10-12      Terms: 2

#### **4524/4525/4526 Advanced Placement (AP) Calculus**

*NCAA approved*

The goal of AP Calculus is to provide a clear understanding of the concepts of differential and integral calculus as well as the procedures used in finding solutions to the variety of problems presented. Topics to be used include: functions, their properties and graphs, continuity and limits, extreme values, concavity, and average and instantaneous rates of change. Integration by use of the Fundamental Theorem of Calculus will be stressed. It is recommended that students should have received a minimum grade of "C" in pre-calculus before signing up for this course.

**Prerequisites:** Pre-Calculus, Trigonometry

Grades: 10-12      Terms: 3

### **4529 Life Skills**

This course deals with the various types of everyday math situations that one must cope with upon graduation from high school. Areas to be covered will be: review of basic math operations, personal banking, loans, metric and English measurements, automobiles and transportation, housing, insurance, budgeting, income and deductions, and careers.

Grades: 12 or teacher approval                      Terms: 1

### **4530 Intro to Statistics**

This course will focus on basic statistics concepts such as collecting, organizing and analyzing data. Students will be participating in activities and projects involving opinion polls, surveys, and experimental design. We will also explore many real world applications of statistics including the US Census Bureau and Gallop Polls.

Grades: 12 or teacher approval                      Terms: 1

### **4527/4528 Advanced Placement (AP) Statistics**

This course is designed to present strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students will review probability theory and various distributions, and learn how to perform statistical inference. They will learn to interpret and judge the statistical information in the world around them.

**Prerequisite:** Higher Algebra or Integrated Math 3

Grades: 11-12                      Terms: 2

## **Music**

**The music program at BHS is designed to promote the serious study of many different styles of music to all interested students. The objectives are to study and/or perform the finest music literature possible. Students in performance classes will perform at concerts, festivals, selected athletic events, civic and community functions and various other occasions. All grade level bands and choirs are scheduled opposite each other so some students wishing to participate in both will have the opportunity to do so. MUSIC PERFORMANCE CLASSES ARE A YEAR LONG COMMITMENT (Varsity Choir is Terms 2-4 only).**

### **5017 Freshman Band**

All grade 9 band students will register for Freshman Band. There will be two bands of equal instrumentation. Both bands will study the same curriculum, studying a variety of band literatures. These bands will meet every other day for a full year, alternating with PE 9 or Freshman Choir. These students will have the opportunity to play in several concerts and to play in marching band, pep band, and jazz band.

Grades: 9                      Terms: 4 (Alternate Days)

### **5027/5028/5029/5030 Varsity Band**

All 10<sup>th</sup> grade band students, and those in grades 11 & 12 who are not in Concert Band, will be in Varsity Band. This band will meet every day for the full year. Students in this group will study and perform a variety of band literature, covering music from different time periods and styles. In addition to band literature, students in the Varsity Band will study and/or perform chamber music and solo literature. These students will have the opportunity to play in the marching band, pep bands, and jazz bands. They will also participate in several concerts and contests.

Grades: 10-12                      Terms: 4

### **5005/5006/5007/5008 Concert Band**

Students in grades 11-12 are eligible for this band by audition only. Students will be selected based on instrumentation needs and playing ability determined via rehearsal performance, playing tests and/or audition. This band will meet every day for the full year. Students in this group will study and perform a variety of band literature, covering music from different time periods and styles. In addition to band literature, students in the Concert Band will study and/or perform chamber music and solo literature. These students will have the opportunity to play in the marching band, pep bands, jazz bands and symphony orchestra. They will also participate in several concerts and contests.

Grades: 11-12                      Terms: 4

### **5013/5014/5015/5016 Orchestra**

Orchestra consists of students in grades 9-12. Students will study and perform a wide variety of orchestral literature and will have an opportunity to perform as both a “string only” ensemble as well as a full symphony orchestra. In addition to practice and performance, this course includes an overview study of music history and theory. Students will also have an opportunity to play in the chamber orchestra, small ensembles and participate in concerts and contests.

**Prerequisite:** Teacher Approval

Grades: 9-12                      Terms: 4

### **5018 Freshman Choir**

The Freshman Choir is a large group choral ensemble designed for 9<sup>th</sup> grade students. Students will meet for a full block for a full year, alternating days with PE 9 or with Band or Orchestra. The course includes the rehearsal and performance of a variety of choral music styles. Emphasis in this class is placed on skill development in choral singing and performance, the study of basic music theory, and vocal development. Choir students will participate in concerts, festivals, and other performance opportunities.

Grades: 9                              Terms: 4 (Alternate Days)

### **5031/5032/5033 Varsity Choir**

The Varsity Choir is a large group choral ensemble designed to continue the development of vocal performance skills for students in grades 10-12. The course includes the rehearsal and performance of a variety of choral music styles. Emphasis in this class is placed on skill development in choral singing and performance, the study of music rudiments, and vocal development. Choir students will participate in concerts, festivals, and other performance opportunities. The choir director places students into the Varsity Choir.

**Prerequisites:** Teacher Approval

Grades: 10-12                      Terms: 3

### **5009/5010/5011/5012 Concert Choir**

This is the most advanced choral ensemble at BHS and is designed for mixed voices. Emphasis in this choir is on performance and musicianship, as well as vocal technique. Students in this group will study and perform a variety of choral literature covering music from different periods and styles. In addition, students will have the opportunity to study and perform solo and ensemble literature. The Concert Choir performs at numerous concerts, contests and festivals. Students in grades 11-12 are eligible by audition only and must register for the full year unless given permission by the instructor.

**Prerequisites:** Audition

Grades: 11-12                      Terms: 4

### **5001/5002 Advanced Placement (AP) Music Theory**

This course will be offered during terms 1 & 3 in order to allow students to participate in the Classical Music Listening Course (see below) and complete the theory course prior to the scheduled AP test. It is recommended that students taking this course have an understanding of basic music theory. **Students planning to take the AP Music Theory test in the spring are also required to take the Classical Music Listening class.** This course will cover music theory including the elements of music, scales, chord analysis, and music composition. (Placement in AP Music Theory is by permission of instructor only and is recommended for students with a significant interest in music.)

**Prerequisites:** Teacher Approval

Grades: 11-12                      Terms: 2

### **5004 Classical Music Listening**

This course will focus on listening to classical music from the Medieval through the 20<sup>th</sup> Century periods. This course is based on the study guide used by the Minnesota High School Music Listening Contest. This course is designed to be taken during 2<sup>nd</sup> term so that students in AP Theory may take both courses.

Grades: 9-12                      Terms: 1

## **5026 Music in America**

This course is a survey of American music from the Civil War period through the present day. Styles of music studied will include folk, blues, jazz, musical theater, popular music through the ages, and rock (not that heavy classical stuff). No prior musical experience is required but an appreciation for all styles of music is encouraged.

Grades:9-12      Terms: 1

# **Physical Education**

**Young people are our most valuable resources, and their health, education and well-being is a very important responsibility of schools.**

Regular physical activity

- Improves strength and endurance
- Helps build healthy bones and muscles
- Helps control weight
- Reduces anxiety and stress
- May improve blood pressure and cholesterol levels

**The BHS Physical Education department takes pride in the facilities, curriculum and technology used in classes. Students are exposed to a wide variety of opportunities to increase their fitness levels. All students are encouraged to exercise regularly and develop habits that emphasize enjoyable physical activities that can be continued throughout life.**

## **REQUIRED**

### **5502/5503 Physical Education 9**

9<sup>th</sup> grade physical education is a required course covering 2 terms. Students will participate in individualized fitness programs. Fitness programs will include 3-4 days of cardiovascular conditioning 2 days of strength training, and one classroom day. The students are responsible for written projects demonstrating an understanding of the fitness principles using the Fitness for Life text book. Current technology, including heart rate monitors, and pulse sticks, will be utilized to evaluate students' fitness levels and intensity.

Grades: 9      Terms: 2

## **CHOOSE ONE OF THE FOLLOWING PE 10 COURSES:**

### **5504 PE 10 Personal Fitness**

Throughout this course, individuals will face a number of challenges concerning physical fitness. These challenges will include the following:

Assessing individual physical fitness and progress during the term; learning about changes in personal habits that could be needed to improve fitness; taking responsibility for planning, developing, and maintaining a healthy and active lifestyle; exploring consumer fitness choices; designing a physical activity and fitness program that can meet individual needs throughout life. Class will include cardio training, strength training and various activities such as circuits, step aerobics, taebo, exercise balls and weight lifting with heart rate monitors.

### **OR**

### **5505 PE 10 Team Fitness**

This course will focus on developing and enhancing individual movement competency and motor skills. This class is for the student wanting to achieve a higher level of skill and fitness in a team sport environment. The importance of cardiovascular fitness will be embedded in the class as students will wear heart rate monitors and will be assessed on time in target heart rate zone. Students will also be assessed in sport skill performance and written assessments of sport knowledge. This class will include, but is not limited to team sports such as soccer, basketball, floor hockey, speedball and volleyball. Students will participate and practice in drills and mini-games leading up to a full game

### **5506 9<sup>th</sup> Grade Strength & Conditioning**

This course will instruct students in all aspects of strength training and conditioning. Emphasis will be on safety, basic lifting techniques, and the concept of total fitness training. A 3 day lifting and 2 day conditioning program will be utilized. Students will wear heart rate monitors and will be assessed on the time in target heart rate zone.

Grades: 9            Terms: 1

### **5507 10<sup>th</sup> Grade Strength & Conditioning**

This course will offer skills and instruction in physical conditioning. Emphasis will be placed on the review of total fitness training and assisting the students in developing their lifting techniques. The students will develop a higher level of conditioning and fitness. Students will wear heart rate monitors and will be assessed on the time in target heart rate zone.

**Prerequisite:** Pass 9<sup>th</sup> grade PE

Grades: 10            Terms: 1

### **5512 Lifetime Fitness - Level 1 Strength Training**

This course is open to students who have an interest in improving their physical fitness but have little experience in weightlifting and conditioning programs. Students will be involved in strength conditioning, fitness testing, and other fitness activities. The students will learn training methods and daily exercises beneficial to their lifetime fitness. Heart rate monitors will be worn by students for assessment on the time in target heart rate zone.

**Prerequisites:** Pass PE 9 & 10

Grades: 11-12        Terms: 1

### **5513 Physical Image - Level 2 Strength Training**

This course is open to students interested in improving their physical fitness through an intense program of weightlifting and conditioning. Students will choose a training program of movement lifts or muscle lifts specific to their individual needs. A 3-day lifting and 2-day conditioning program will be used to meet individual needs. Heart rate monitors will be worn by students for assessment on the time in target heart rate zone.

**Prerequisites:** Lifetime Fitness

Grades: 11-12        Terms: 1

### **5514 Bigger, Faster, Stronger - Level 3 Strength Training**

This course is designed for the student who wants to continue to advance in the BHS Strength Training and Conditioning Program. Emphasis will be placed on striving to improve and challenge one's physical best. Students will design their own strength program, lead class warm-ups, and be tested on their overall physical conditioning. Heart rate monitors will be worn by students for assessment on the time in target heart rate zone.

**Prerequisite:** Lifetime Fitness & Physical Image

Grades: 11-12        Terms: 1

### **5515 Peak Performance Training - Level 4 Strength Training**

Students will work toward identified goals through an individually designed program of strength training activities. The emphasis will be on workout "intensity" and attainment of specific goals. Heart rate monitors will be worn by students for assessment on the time in target heart rate zone.

**Prerequisites:** Lifetime Fitness, Physical Image & Bigger, Faster, Stronger

Grades: 11-12        Terms: 1

### **5508 Aerobics and Body Toning**

This class is designed for students who wish to improve/maintain their physical fitness through a regular exercise schedule with routines in step aerobics, taeco, circuit training set to music, weight lifting, Yoga and Pilates. Aerobic exercise through jogging, walking and seasonal activities will also be included. The students will monitor heart rates regularly, do fitness assessments, and record keeping. Health related topics such as body composition and fitness myths are also analyzed.

**Prerequisites:** Pass PE 9 & 10

Grades: 11-12        Terms: 1

### 5509 Competitive Level Team Sports

This course is designed for the skilled athlete who seeks a higher level of skill and competition in a variety of sports. Students will be evaluated through performance in competitive leagues and tournaments, as well as time in target heart rate zone. This is a class for students with average or above average level of sports skill.

**Prerequisites:** Pass PE 9 & 10

Grades: 11-12      Terms: 1

### 5511 Indoor and Outdoor Recreation

Students will participate in lifetime sports. Activities will include net games, team sports, striking sports, and yard games. Attendance and daily participation is essential for this class.

**Prerequisites:** Pass PE 9 & 10

Grades: 11-12      Terms: 1

### 5510 Exercise Physiology and Biomechanics /CIS Exercise Physiology

This class is intended for students interested in careers in medicine or physical therapy or athletes who want to learn about the body and how to increase athletic performance. Subjects covered will be the muscular and skeletal systems, and the physiological effects of exercises, and weight training on athletic performance. Students will also develop a weight lifting and conditioning program. Knowledge of theories and principles as related to exercise physiology and biomechanics will be covered in a classroom setting. A lab environment will be used as needed. **CIS students completing the course may register for 1 HEPRSS credit through St. Cloud State University. In order to be eligible for college credit you must be in grade 11 and in the top 33% of your class as a junior or top 50% as a senior upon registration for this course.**

Grades:10-12      Terms: 1

## Science

The Science program at BHS is designed to promote the serious study of science for every level of student ranging from the individual ready to enter the work force upon high school graduation to that student seeking a career in the professional science, engineering, or health related fields. Societal trends in changing career fields heavily emphasize the knowledge and problem solving techniques experienced in the science courses we offer. The science department recommends students pursue the following science tracks depending on their career goals. These tracks reflect minimum expectations from the state and private, technical colleges and universities. All students are strongly encouraged to challenge themselves with the variety of lab oriented classes and College in the Schools courses offered by the BHS science department.

Grade	School to Workforce	Technical Education	4-year College	Science and Technology related field or Selective 4-yr College
9	Science 9	Science 9	Science 9	Science 9
10	Science Elective	General Biology	General Biology	General Biology
11	General Biology Science Elective	Science Elective Science Elective	General Chemistry	General Chemistry
12				Physics

**Reminder: A minimum of 3 credits of Science are required for High School Graduation.**

- Students wishing to enhance their future science course options by completing both Science 9 and General Biology during there 9<sup>th</sup> grade year should speak with their counselor about this opportunity.

**6060/6061 9<sup>th</sup> Grade Science***NCAA approved*

9<sup>th</sup> grade Science is a two-term physical science course in which students are introduced to basic concepts in physics and chemistry. This course provides hands-on activities in the laboratory and opportunities for problem solving. The elements essential to this course include: topics in the properties and particle nature of matter, chemical and physical change, conservation of matter and energy, mechanics, Newton's laws and wave motion. This course is a fundamental class that is required before taking other courses of study in science.

Grades: 9                      Terms: 2

**6023 Basic Chemistry**

Basic Chemistry is a one term introductory course in the principles of chemistry. This course provides numerous laboratory activities and opportunities for problem solving. The elements essential to this course include topics in the properties and particle nature of matter, chemical and physical change, conservation of matter. Students in the course will complete the Concepts in Chemistry graduation standard. Basic chemistry is not for those students considering a 4 year college after high school. This course does not meet basic admissions requirements of four year colleges.

Grades: 10-12                Terms: 1

**6010/6011 General Biology***NCAA approved*

This is a course designed to meet the needs of students that may be college bound. It's structured around the Minnesota Academic Science Standards, primarily in Life Science, but includes some of the History and Nature of Science strand as well. Because living things are governed by the same laws of nature as all matter is, 9<sup>th</sup> grade Physical Science (or its equivalent) is a prerequisite in order to fully understand the concepts of this course. While the course may take on many themes such as methods, process, cycles, change, relationships, responsibility, and ethics, its primary goal is to encourage students to think knowledgeably, thoughtfully and critically about observations, data and scientific discoveries and theories.

**Prerequisites:** 9<sup>th</sup> grade Science or General Chemistry

Grades: 10-12                Terms: 2

**6008 Biotechnology***NCAA approved*

The Biotechnology course will investigate scientific concepts related to the exciting biological and physical components of biotechnology that affect our everyday life. Specific topics will include scientific methods, genetics and genetic engineering, cells and cell reproduction, DNA and protein synthesis, immunology embryology and social issues related to biotechnology. Hands-on laboratory activities will provide opportunities for problem solving through practical application. One project related to issues analysis will be required.

\*Biotechnology, if taken in conjunction with Advanced Biology(6067/6068), a two term course, will prepare students to take the AP Biology examination.

**Prerequisite:** General Biology

Grades: 10-12                Terms: 1

**6018 Human Anatomy 1/CIS Anatomy 1***NCAA approved*

This introductory course covers the chemistry of life, the structure and physiology of cells and tissues, body organizations, and homeostasis. The skeletal, muscular, and digestive systems are investigated along with issues such as anorexia. The sensory systems of sight and hearing, the endocrine system as well as the respiratory system and issues related to smoking will be covered. A dissection of the internal organs of the fetal pig will be part of lab activities in this course. **CIS students completing Anatomy 1 and Anatomy 2 may register for 3 college credits through St. Cloud State University. In order to be eligible for college credit you must be in grade 11 and in the top 33% of your class academically, or grade 12 and in the top 50% of your class, upon registering for this course.**

**Prerequisite:** Complete General Biology

Grades: 10-12                Terms: 1

**6019 Human Anatomy 2/CIS Anatomy 2***NCAA approved*

Human Anatomy 2 is a continuation of Anatomy 1. It is suggested that students take Anatomy 1 & 2 sequentially in the same academic year. In this course the cardiovascular, digestive, endocrine, reproductive, respiratory, and immune systems will be studied. Pregnancy, fetal growth and development, sexually transmitted diseases, and reproductive technologies to treat infertility will be highlighted in this course. Continued dissection of the fetal pig will be included, as well as dissection of a mammalian heart. Current issues related to anatomy will be discussed on a weekly basis in this course. **CIS students completing Anatomy 1 and Anatomy 2 may register for three credits through St. Cloud State University if they qualify by class rank. In order to qualify you must be in the top 33% of your class as a junior or top 50% as a senior upon registration for this course.**

**Prerequisites:** Complete General Biology and Anatomy 1

Grades: 10-12      Terms: 1

**6022 Wildlife Biology***NCAA approved*

Serious biology students will use an ecological and hands on approach to cover topics on wildlife management, waterfowl, endangered species, birds of prey and big and small game species. Timber wolves will be studied as a model to learn basic research and data collection techniques. Identification of species will be discussed using a variety of models and hands on activities. Students will have the opportunity to meet speakers and discuss topics on taxidermy, trapping and careers in conservation.

Grades: 10-12      Terms: 1

**6007 Astronomy***NCAA approved*

In Astronomy we will pursue the answers to such questions as: What is the role of constellations? Why do the stars move? What causes the seasons? How have we explained the motions of the planets throughout the course of history? What causes tides and moon phases? How do astronomers use telescopes? How can we learn about stars by only looking at their light? What is the future of our cosmos? Is there a possibility of life elsewhere in the Universe? In this class, we will answer these questions and more through investigation, observation and discussion. Students are expected to have basic Algebra and Geometry skills.

Grades: 10-12      Terms: 1

**6009 Meteorology***NCAA approved*

This course will discuss geological processes that affect the earth, weather phenomenon and the forces responsible for short term weather and long term climate change. Hands on classroom activities will allow students to make weather observations, learn about clouds, precipitation and storms. Daily reading from a college level textbook is required along with small and large group discussion will talk about current events and trends that affect the changes and reporting of weather.

Grades: 10-12      Terms: 1

**6020/6021 Physics***NCAA approved*

What was Newton talking about? What's stronger: gravity or electricity? What causes a satellite to stay in orbit? How does a battery work? Why does a curveball curve? Why is the sky blue? Is tile colder than carpet? How does an atomic bomb work? How does a musical instrument play notes? If you want to learn the answers to these questions and more, check out physics. We will study the basic laws of nature – investigating what happens when nature is in and out of balance. How energy is transferred and mass is not. And, explain how nature moves in cycles. This class will dedicate considerable time to hands on investigation. Also problem solving techniques will be utilized. You will be challenged!

**Prerequisites:** Higher Algebra or Integrated Math 3 Trigonometry recommended.

Grades: 11-12      Terms: 2

**6073/6074 General Chemistry***NCAA approved*

This course is recommended to all students who are college bound. Chemistry is the study of the material world and its changes. We will study atoms, chemical bonds, reactions, mole theory, equilibrium, and historical developments of chemical concepts. Much of the course will be based on lab investigations.

**Prerequisite:** 9<sup>th</sup> grade Science

Grades: 10-12      Terms: 2

**6014/6015 College in the Schools (CIS) Chemistry I***NCAA approved*

CIS Chemistry I is a one semester (terms 1 & 2), science elective, intended for juniors and seniors who are college bound and wish to obtain a strong chemistry background. **The course is being offered with the cooperation of Southwest Minnesota State University, and students can receive 4 college credits for successful completion. Students should be prepared to take a rigorous, math-based science course.**

*Prerequisite: General Chemistry*

Grades: 11-12      Terms: 2

**6094/6095 College in the Schools (CIS) Chemistry II***NCAA approved*

CIS Chemistry II is a one semester (terms 3 & 4), science elective, intended for juniors and seniors who are college bound and wish to obtain a strong chemistry background. **The course is being offered with the cooperation of Southwest Minnesota State University, and students can receive 4 college credits for successful completion. Students should be prepared to take a rigorous, math-based science course.**

*Prerequisite: CIS Chemistry I*

Grades: 11-12      Terms: 2

**6024/6025 Advanced Placement (AP) Physics***NCAA approved*

Advanced placement physics will be a rigorous physical science class. Emphasis will be placed on traditional themes in college physics including kinematics, Newton's laws of motion, energy transfer, momentum transfer, circular motion, and periodic motion. A large portion of the class will be spent investigating these themes in the laboratory. Considerable time will be spent problem solving and preparing for the AP examination. Calculus will be introduced in this course. It is recommended that it is taken concurrently.

**Prerequisites:** Physical Science 9, Trigonometry or equivalent

Grades: 11-12      Terms: 2

**6005/6006 Advanced Biology***NCAA approved*

Advanced Biology is a one semester (terms 1 and 2) course for students with a serious interest or a career interest in the biological sciences. Advanced Biology will cover two of the three general areas of study as prescribed by the AP College Board; molecules and cells and organisms and populations. This course will be taught at a college introductory level and will include lectures, readings and discussions, and extensive AP approved laboratory opportunities.

\*Advanced Biology if taken in conjunction with Biotechnology (6082), a one term course, will prepare students to take the AP Biology examination.

**Prerequisite :** General Biology

Grades: 11-12      Terms: 2

## Social Studies

**Social Studies classes provide students an opportunity to explore an extensive range of approaches people have taken to order their political, economic and social lives. The Social Studies Department will also incorporate into their classes' current events as they occur throughout our cities, counties, state, nation and world, and the use of technology as it applies to the various disciplines. Classes will also encourage students to discuss and choose actions that can provide a guide to effective action in their future.**

**6501/6502 American Experience***NCAA approved*

Students are exposed to the responsibilities citizens share in a democratic society. Introductions to the decision-making process plus current political and social issues are integrated into the course. National, state, and local government are also covered, as are the three branches. Contemporary Constitutional issues are also discussed. Students will also study U.S. Geography.

Grades: 9      Terms: 2

### **6509 Minnesota History**

Designed as a one term elective for 9<sup>th</sup> and 10<sup>th</sup> grade students, Minnesota History explores the geography, history, politics and ethnic culture of our state. We will look at the origins of the Fur trade and the treatment of the Native Americans. We will study the Three Frontiers of our State which are Lumbering, Farming and Mining. As a class we will also examine Minnesota's role in the Civil War. We will use a variety of resources to gather our information including Minnesota Historical Society website. We will use readings, maps, puzzles and videos to reinforce our learning.

Grades: 9-10                      Terms: 1

### **6505 Current Events I**

Designed to actively engage learners in the study and discussion of current events. We will use and analyze our "textbooks" which will be news magazines, daily newspapers, cable network news, and the Internet. The students will play a role in selecting topics for the curriculum. The learners will demonstrate knowledge of world leaders, events, the historical background of those events, and their impact on our society.

Grades: 9-10                      Terms: 1

### **6503/6504 American History**

*NCAA approved*

Students will study the events, ideas, and people that have shaped our nation. The class will explore events from colonial to modern American History. Emphasis will be given to the study of primary documents and maps as well as the creation of charts, timelines, and graphs.

Grades: 10                        Terms: 2

### **6514/6515 World Studies**

*NCAA approved*

This course will allow students to study the geography, history, culture, and future of many of the world's places and nations. The emphasis is on culture, place, and history in this course. The course is currently set along basic chronological lines, areas of the world are taught from its ancient roots to its modern day cultural status, and possible social problems.

Grades: 11                        Terms: 2

### **6506 Current Events II**

This course is designed to actively engage learners in the study and discussion of current events.. We will use and analyze our "textbooks" which will be news magazines, daily newspapers, Cable Network News, and the Internet. The students will play a role in selecting topics for the curriculum. The learners will demonstrate knowledge of world leaders, events, the historical background of those events, and their impact on our society.

Grades: 11-12                    Terms: 1

### **6513 Social Problems**

*NCAA approved*

Students will actively participate in an examination of cultures around the world. Answering questions concerning the following: How are we different and why? How are we alike and why? How do we change? How do we resist change? Students will learn about their own society through a study of human relationships, gender differences, music, etc. Students will help select some of the "social problems" which will be studied. They will create projects, role-play problem solve, and simulate life situations.

Grades: 11-12                    Terms: 1

### **6507 Economics**

*NCAA approved*

This course will introduce the student to the fundamental elements of Economics as a Science. Questions that will be discussed: *What is Capitalism? How do Economic Systems work? Why are some countries rich and some countries poor? What is needed to have an excellent standard of living or quality of life? Why is economic growth so important? What is the real reason that gas prices go up and down when they do? What are markets, why are they essential to all economic systems?* In this course we will also study the stock or equities market. We will analyze how they function by investing \$100,000 in the market and compete on a stock market website called smartstocks.com. Other specific topics in this class: money and banking, prices and how they function, supply and demand, entrepreneurship in a capitalist world and

economic problems. (i.e. unemployment, scarcity, fiscal and monetary policy). This is a ten week course, text, study guide and course syllabus provided courtesy of Junior Achievement of Minnesota.

Grades: 11-12      Terms: 1

### **6522/6523 College in the Schools (CIS) Intro to Economics**

*NCAA approved*

Economics is a social science seeking to understand society. Economics students investigate choice under conditions of scarcity. Microeconomics 1101 deals with consumer behavior, production decisions of business firms, and markets. In general the course deals with the individual aspects of our economy such as the household and/or business firms. Other topics include environmental economics and the economic role of government. The major emphasis in the course will be on economic concepts and their application to current issues. Concepts that will be part of this course will include: scarcity and choice; opportunity cost and tradeoff; economic systems; markets and prices; supply and demand; productivity; efficiency; marginal analysis; competition and market structure; market failures; role of government; income distribution; public goods; externalities; and the social goals of freedom equity, efficiency, growth, and security. **CIS students: This class is designed by the St. Cloud State University professors and taught by BHS teachers. This course has the rigor of its corresponding class IntroEc201. Upon successful completion of the course you may register for 3 college credits through St. Cloud State University. In order to be eligible for college credit you must be in grade 11 and in the top 33% of your class academically, or grade 12 and in the top 50% of your class, upon registering for this course.**

Course goals:

- To increase the understanding of the major concepts of Microeconomics.
- To increase awareness and comprehension of the economic dimension of contemporary issues.
- To motivate the use of economic concepts, and to analyze and evaluate contemporary issues.

Grades: 11-12      Terms: 2

### **6510 Minorities**

*NCAA approved*

This is an introductory class to the world of minorities and the diversity of the groups that make up our American society. Units include introduction to prejudice, and ethnic and social minorities. There is an emphasis on discussion along with more traditional approaches to exploring diversity.

Grades: 11-12      Terms: 1

### **6511 Psychology A**

*NCAA approved*

This course will introduce students to the interesting world of psychology. We will cover the history of psychology, how the brain effects behavior, mental illnesses, and deviant behavior. Students will also learn about why we dream and the reasons we experience different emotions. It will help students to apply their knowledge of psychology into understanding and improving themselves.

Grades: 11-12      Terms: 1

### **6512 Psychology B**

*NCAA approved*

This is an application class that allows students to further explore the world of psychology with a more “hands-on approach”. In this class we look at things such as how your personality is developed, where does your intelligence come from, and social psychology. Students participate in activities that allow them to use their psychology experiences on a daily basis and conduct various psychological experiments and observations. Students will create and conduct their own experiment on a chosen psychological topic.

**Prerequisite:** Psychology A

Grades: 11-12      Terms: 1

### **6518/6519 College in the Schools (CIS) Introduction to Psychology 101**

*NCAA approved*

The course will cover the principals, organization, processes, and functions of Psychology. Term one will focus on history of psychology, biology of addiction, memory, and intelligence. Term two will focus on sleep and dreams, motivation & emotions, personality, child development, and abnormal psychology. **CIS Students: This class is designed by the Southwest State University professors and taught by BHS teachers. This course has the rigor of its corresponding college course Psychology 101. Upon**

**successful completion of the course students will earn 1 credit towards high school graduation as well as 3 credits on a Southwest Minnesota State University transcript.**

**Prerequisite:** You will be automatically approved if you are in the top 20% of your class and eligible for consideration if you are in the top 50%.

Grades: 11-12      Terms: 2

**6520/6521 College in the Schools (CIS) Introduction to Psychology 102**      *NCAA approved*

This course surveys content areas in a more specific and in-depth way than General Psychology I. Topics include biological psychology, sensation, perception cognition intelligence and motivation, and emotion. Students learn to use primary sources in psychology. **CIS Students: This class is designed by the Southwest State professors and taught by BHS teachers. This course has the rigor of its corresponding college course Psychology 102. Upon successful completion of the course students will earn 1 credit towards high school graduation as well as 3 credits on a Southwest Minnesota State University transcript.**

**Prerequisites:** CIS Psychology I, carry a B average and are in the top 50% of your class

Grades: 11-12      Terms: 2

**6516/6517 College in the Schools (CIS) Democracy in a Changing World**      *NCAA approved*

The course will cover the principles, organization, processes, functions of government, and the interplay of political forces in the United States. Term one will focus on Dilemmas of Democracy, Foundations of American Government, and Linking People with Government. Term two will focus on Institutions of Government, Civil Liberties, and Civil Rights. **CIS Students: This class is designed by the University of Minnesota professors and taught by BHS teachers. This course has the rigor of its corresponding college course Pol1001. Upon successful completion of the course students will earn 1 credit towards high school graduation as well as 4 credits on a University of Minnesota transcript.**

**Prerequisite:** You will be automatically approved if you are in the top 20% of your class, and eligible for consideration if you are in the top 40%.

Grades: 11-12      Terms: 2

## Technology Education

The Technology Education department here at Buffalo High School wants to help its students explore as many job opportunities and life skills as possible throughout a student's high school career. We have areas of interest in communications, energy/power & transportation, and manufacturing. For the hobby lover in all of us, we offer several woods and metals classes. It is our intention to give every student at BHS the best possible education in technical fields. To do this, we offer many exploratory classes to allow students to see a wide variety of technologies such as computer aided drafting (CAD), computer operated mill and lathe, computer graphics, digital video production, laser engraving/cutting, and flight simulation. We hope that at the end of a student's high school career, they can make a well-informed decision about their future lives.

### 7009 Principles of Technology

Hey, do you know what Tech. Ed is? If you don't this class is for you. This introductory class is designed to expose students to different areas of technology that are offered at BHS. Students will work on selected hands-on activities in the areas of communication, manufacturing, construction, and transportation. Students will plan, develop, and produce class projects which involve applications of technology.

Grades: 9-12      Terms: 1

### 7004 Energy, Power, and Transportation

MORE POWER! This class explores the technical processes, applications, and impacts of energy and power. You will learn about the four main classes of transportation (land, air, water, space). Some of the activities included are rockets, powerboats, sailboats, gliders, and CO2 dragsters.

Grades: 9-12      Terms: 1

### 7017 Automotive Engineering and Design

START YOUR ENGINES! Do you want to learn more about America's fastest growing sport of auto racing? This is the class for you. This class will teach you that racing is more than a bunch of cars going

around in a circle. You will follow the design and mechanics of a racecar from behind the pit-walls to the checkered flag at the finish line.

Grades: 9-12            Terms: 1

### **7006 Manufacturing Entrepreneurship**

Calling all inventors, marketing personnel, and people with a sales pitch. Learn how the manufacturing world operates. This class is designed to show all of the steps involved in manufacturing and marketing a product. The class will have to research and develop a product to be sold and manufactured in a company the class creates.

Grades: 9-12            Terms: 1

### **7013 Wood Technology**

No experience is necessary to apply! Students will build one of two pre-assigned projects developed by the instructor. Students will learn about drafting and scaling, calculating board feet, and producing a bill of materials for their project. Safety is taught before students can begin working with the machinery. Please note: if a student chooses option two of the pre-assigned projects, there will be a charge for the extra materials.

Grades: 9-12            Terms: 1

### **7007/7008 Goals 2000**

This class explores the newest and coolest technologies used today. The class offers 16 different stations which students rotate through during the term (8 each term). The stations are: Computer Graphic Design, Fiber Optics/Lasers, Digital Photography, Fluid Power, CNC Lathe, CNC Mill, Flight Simulator, Computer Animation, Residential Modeling, Digital Video, Auto Exploration, Digital Audio, Exploratory Electronics, Robotics, CAD Drafting, and Bridge Building. The majority of the stations use computers, computer software, and trainers to teach you about each of the technologies. Other stations offer more hands-on learning. Students also complete a technological problem-solving/design project during the course. The class is designed to allow students to take it for two terms in the same year or different years.

Grades: 9-12            Terms: 1 or 2

### **7001 Introduction to CAD (Computer Aided Drafting)**

This class is designed to expose students to a variety of designs and drafting techniques utilizing the computer. Emphasis is placed on the design process with respect to the areas of mechanical and architectural designs. Students also participate in a group activity which they produce a model using the new laser cutter.

Grades:9-12            Terms: 1

### **7002 Architectural (House) Drawing**

Is it fantasy or is it real? If you can imagine it; you can build it here. Take Architectural Drawing to refine your drafting skills in the area of house building. Students will draw several types of houses including a rambler, split entry, 2-story, and a lake cabin. This software allows the user to tour the house in 3-D. Finally, students build the terrain around the house which includes the driveway, sidewalks, retaining walls, patios, and decks.

**Prerequisite:** Introduction to CAD

Grades: 10-12            Terms: 1

Suggested follow-up course:

### **4003 Creating Interior Spaces**

Grades: 10-12            Terms: 1

### **7016 3-D Mechanical Drawing**

CHECK IT OUT! Students who really enjoyed working with CAD software and computers will love this new experience. We have a mechanical software that allows students to work in 3-D. Students will learn how to draw exploded views, threaded bolts, and much more. This class will push your drafting skills and imagination.

**Prerequisite:** Introduction to CAD

Grades: 10-12            Terms: 1

### **7012 Visual Technology**

Interested in computer graphics, digital imagery, photography, and digital video? Then this is the class for you! This class offers you the opportunity to: develop your own film and pictures, edit digital photos from a scanner or digital camera and add cool effects, produce digital video productions using digital video editing machines and video editing software on a computer, and produce color page layouts with graphics, digital photos, and visual effects. If you want to be creative and have fun then this class will help you do so. This class is excellent for those involved with yearbook and the school newspaper.

Grades: 10-12      Terms: 1

### **7005 Electricity/Electronics**

In this course you will be given a chance to explore the world of electronics. If you have ever taken apart something electronic and asked yourself, "How does this work?", this is the class for you. The class will work on all types of electrical circuits, from simple series circuits to higher end combination circuits. This class will involve the use of some algebra. Once all the circuit work is done, it's time to construct an electronic device. Students will do a variety of experiments using digital, communications, and robotics kits.

Grades: 9-12      Terms: 1

### **7014 Woods II**

For those of you who enjoyed working with your hands in Wood Technology, this class is for you. Select from five pre-assigned projects. Woods II will continue to teach you skills that will make you a better craftsman with your hands. Please note, if a student chooses options two through five of the pre-assigned projects there will be a charge for the extra materials.

**Prerequisites:** Wood Technology

Grades: 10-12      Terms: 1

### **7015 Woods III/ CIS Woods**

Why stop at two? Go for three. Students will be able to continue developing craft and building skills. Students will select from five pre-assigned projects. If a student chooses options two through five of the pre-assigned projects there will be a charge for the extra materials required. College in the Schools (CIS) students completing Woods III may register for 3 college credits through St. Cloud State University. In order to be eligible for college credit you must be in grade 11 and in the top 33% of your class academically, or in grade 12 and in the top 50% of your class upon registering for this course.

**Prerequisites:** Wood Technology and Woods II

Grades: 11-12      Terms: 1

**Criteria for college credit:** 11<sup>th</sup> grade (top 33% of the class) 12<sup>th</sup> grade (top 50% of the class)

### **7010/7011 Research and Development**

This course is designed for creative students. Students are to find solutions for problems using limited resources. Catch a falling egg using only paper and tape, use a rat trap to propel a cardboard vehicle to pop balloons. If it sounds fun, it is! Learn why we have the research and development process and how to use it. Design and create a new product that is limited only to your imagination.

Grades: 11-12      Terms: 2

### **7003 Introduction to Metals**

Basic metalworking skills are taught which involve welding, CNC machining, and sheet metal fabrication. A variety of assignments in welding, sheet metal, and machining will be done throughout the class. This course stresses exploration.

**Prerequisite:** Can NOT have taken Machine Trades or Welding at the WTC.

Grades: 9-12      Terms: 1

### **7018 Video and Multimedia Productions**

Did you enjoy working with video in Visual Technology? This course will expand upon the digital video production process and include other topics involved in video and multimedia production including animation creation, digital audio editing/production, and live broadcasting. Students will be responsible for planning, creating, and broadcasting a school news show. Students in this course must be able to work to strict deadlines and be able to cover events and activities outside of the normal school day.

**Prerequisite:** Visual Technology  
Grades: 11-12      Terms: 1

### **7019 Metal Fabrication**

This class is designed to show you the industrial need for people with custom metal fabrication skills, especially with the current popularity of car and motorcycle fabrication. In this class you will fabricate pieces by hand forming sheet metal, using a sand-casting, and other fabrication skills.

Grades: 9-12      Terms: 1

## **World Language**

The language department at BHS proudly offers three world languages students can explore: **French, German, and Spanish**. Studying a new language opens the door to a wide variety of opportunities including: job marketability, social enlightenment, and travel enjoyment. All three language offerings promote cultural awareness, as well as reading, writing, speaking, and listening skills. Students can begin their world language experience as ninth graders and continue through high school, potentially testing out of several language courses at a college/university.

### **LEVEL I**

*NCAA approved*

**7511/7512 French I**

**7521/7522 German I**

**7501/7502 Spanish I**

Level I will introduce students to the basic aspects of culture, language and geography. Students practice the four language learning skills: speaking, listening, reading, and writing. In level I their writing skills focus on spelling and simple sentence structure, whereas their listening and speaking focus is on basic conversational skills and pronunciation. Students read to comprehend elementary texts. Additionally, cultural aspects like customs, traditional food, school, family and holidays are addressed.

By the end of this level a student should be able to participate in simple conversation and understand simple spoken and written materials.

This course is designed for all students in grades 9-12. This is a rigorous class, which requires students to do work outside of the classroom.

Grades: 9-12

Terms: 2

### **LEVEL II**

*NCAA approved*

**7513/7514 French II**

**7523/7524 German II**

**7503/7504 Spanish II**

This course is a continuation of level I, building listening, speaking, reading and writing skills. Student capability becomes more sophisticated as more advanced grammar concepts, like verb tenses, and vocabulary are learned. Emphasis is put on writing and conversational abilities. Students use the target language to express themselves through dialogues, skits, readings and projects. Culture, geography and history studies continue to be an important part of world language.

**Prerequisite:** Successful completion of level I with a C or above

Grades: 9-12

Terms: 2

### **LEVEL III**

*NCAA approved*

**7515/7516 French III**

**7525/7526 German III**

**7505/7506 Spanish III**

This level further prepares students to communicate with native speakers. Students work on advanced composition and conversation, as well as reading authentic materials, like newspapers, magazines, short stories and poetry. Students polish and expand their use of the target language in varied situations and

through a variety of activities, including reports, journals, dialogues and skits. Emphasis is on accurate self-expression in the target language.

Upon successful completion of this course students are prepared to continue language learning at a college level.

**Prerequisite:** Successful completion of level II with a C or above.

Grades: 10-12            Terms: 2

#### **LEVEL IV**

*NCAA approved*

##### **7517/7518 French IV: College in the Schools, University of Minnesota**

This course is a review of French skills gathered in levels one, two and three. A comfortable and confident understanding of grammar and concepts is necessary. Through the use of authentic readings, written and oral assignments, students are challenged to increase their accuracy in French.

**CIS STUDENTS These courses are designed by the University of Minnesota college professors and taught by BHS faculty. They have the rigor of its corresponding college course. Students will earn credit toward high school graduation as well as 5 credits on a University of Minnesota transcript upon successful completion of the course. College credits in French help students who will need a second language for college entrance or exit, as well as those interested in a language minor or major.**

##### **7527/7528 German IV: College in the Schools, University of Minnesota**

This course is a review of all grammar skills and vocabulary. A solid understanding of the concepts and vocabulary introduced in the first three levels of German is necessary. Students will be challenged through authentic texts and will be required to use the language with an increasing level of grammatical accuracy in speaking and writing assignments.

**CIS STUDENTS These courses are designed by the University of Minnesota college professors and taught by BHS faculty. They have the rigor of its corresponding college course (Ger1003). Students will earn credit toward high school graduation as well as 5 credits on a University of Minnesota transcript upon successful completion of the course. College credits in German help students who will need a second language for college entrance or exit, as well as those interested in a language minor or major.**

**Prerequisite for BHS credit:** Successful completion of German III with a C or above.

**Prerequisite for University of Minnesota credit:** Successful completion of German III with a B or above, and/or in the top 30% of your graduating class (top 50% will be eligible for consideration)

Grades: 10-12            Terms: 2

##### **7507/7508 Spanish IV: College in the Schools, University of Minnesota**

This is the first intermediate Spanish course offered at BHS from the University of Minnesota. Conversation in Spanish is based on themes. Focal points of art, music and literature offer forums to discuss storytelling, issues of environment, human rights, and relationships. Compositions from students fuel ideas for round table discussion.

**CIS STUDENTS These courses are designed by the University of Minnesota college professors and taught by BHS faculty. They have the rigor of its corresponding college course (Span1003). Students will earn credit toward high school graduation as well as 5 credits on a University of Minnesota transcript upon successful completion of the course. College credits in Spanish help students who will need a second language for college entrance or exit, as well as those interested in a language minor or major.**

**Prerequisite :** Successful completion of Spanish III with a C or above.

**Prerequisite for college credit:** Successful completion of Spanish III with a B or above, and in the top 30% of your class (top 50% will be eligible for consideration)

Grades: 10-12            Terms: 2

#### **LEVEL V**

*NCAA approved*

##### **7529/7530 German V: College in the Schools, University of Minnesota**

Level V: This course is the highest level of second language learning available at BHS. It is a review and practice of all past grammatical and communicative processes and also an introduction of sophisticated concepts. Topics are more challenging and abstract as students learn to express themselves through

speaking and writing and understand meaning from written and spoken language at a more advanced level. Upon successful completion of this course, students will have successfully fulfilled their entire language requirement at the University of Minnesota.

**CIS STUDENTS** These courses are designed by the University of Minnesota college professors and taught by BHS faculty. They have the rigor of its corresponding college course (Ger1004). Students will earn credit toward high school graduation as well as 5 credits on a University of Minnesota transcript upon successful completion of the course. College credits in German V help students who will need a second language for college entrance or exit, as well as those interested in a language minor or major.

**Prerequisite for high school credit:** Successful completion of German IV with a C or above.

**Prerequisite for University of Minnesota credit:** Successful completion of German IV with a B or above, and in the top 30% of your class (top 50% will be eligible for consideration)

Grades: 11-12                      Terms: 2

### **7519/7520 French V: College in the Schools, University of Minnesota**

Level V is a continuation of level IV offered through the University of Minnesota. It is comprehensive review of past grammar, communicative topics, and cultural discussions. Topics are more challenging and students are expected to communicate and understand the language at a more advanced level. Upon successful completion of this course, students will have fulfilled their entire language requirement at the University of Minnesota.

**CIS STUDENTS** These courses are designed by the University of Minnesota college professors and will earn credit toward high school graduation as well as 5 credits on a University of Minnesota transcript upon successful completion of the course. College credits in French help students who will need a second language for college entrance or exit, as well as those interested in a language minor or major.

**Prerequisite for high school credit:** Successful completion of French IV with a C or above.

**Prerequisite for University of Minnesota credit:** Successful completion of French IV with a B or above, and in the top 30% of your class (top 50% will be eligible for consideration)

Grades: 11-12                      Terms: 2

### **7509/7510 Spanish V: College in the Schools, University of Minnesota**

The most advanced offering of Spanish offers more opportunity for thematic discussion. Students uncover cultural topics through conversation regarding art, music and literature. Debates, compositions and round table discussions stem from topics such as diversity, culinary arts, economy, and the 21<sup>st</sup> century.

**CIS STUDENTS** These courses are designed by the University of Minnesota college professors and taught by BHS faculty. They have the rigor of its corresponding college course (Span1004). Students will earn credit toward high school graduation as well as 5 credits on a University of Minnesota transcript upon successful completion of the course. College credits in Spanish help students who will need a second language for college entrance or exit, as well as those interested in a language minor or major.

**Prerequisite for high school credit:** Successful completion of Spanish IV with a C or above.

**Prerequisite for University of Minnesota credit:** Successful completion of Spanish IV with a B or above, and in the top 30% of your class (top 50% will be eligible for consideration)

Grades:11-12                      Terms: 2

### **7531 World Cultures and Communities**

As we move forward into the 21<sup>st</sup> century, we see how our global economy is changing due to the many cultures involved. In order to be responsible and productive global citizens, it has become necessary to increase one's awareness about these diverse cultures that span our globe. This course will explore the meaning of culture through language in a society. Students will study the various aspects of many languages from around the world. This study may include but not be limited to music, food, dress, traditions, celebrations, art, politics, literature, ethics/morals, and religion. Some languages covered are: Spanish, French, German, Italian, Latin, & Japanese.

Grades:9-12                      Terms: 1

# Wright Technical Center

## GENERAL INFORMATION

### Where are we located?

Wright Technical Center is located in Buffalo, on Highway 25, just a short distance north of Highway 55, across from Wal-Mart. Phone: (763) 682-4112, fax: (763) 682-4113, website at [www.wtc.k12.mn.us](http://www.wtc.k12.mn.us).

### How may I participate in WTC programs?

Wright Technical Center is open to students of member school districts who have a real interest in career and technical education. If you attend one of the following member schools, you're eligible to enroll at Wright Technical Center: Annandale, Big Lake, Buffalo, Delano, Howard Lake/Waverly/Winsted, Maple Lake, Monticello, and St. Michael/Albertville.

### Can I earn technical college and high school credits at WTC?

The answer is *YES!* You can earn two different types of credit while attending Wright Technical Center. Upon satisfactorily completing program requirements, you'll receive credit toward your high school graduation. In many of our programs, your completed coursework may also earn college credit and save you money when you attend a technical college by not having to repeat the basics of your program. Student data is collected for the purpose of issuing college credit certificates and to help measure program effectiveness.

### When would I attend?

What time you attend during the day will be determined according to which block of the day your school has been assigned, with some exceptions. Refer to your home school schedule or check with your counselor.

### College credit

Students, who successfully complete Technical College curriculum requirements with a grade of "B" or better, earn college credit in addition to earning high school credit. These credits can save students hundreds of dollars in tuition at participating post-secondary schools and colleges.

Tech Prep student data is collected for the purpose of issuing Tech Prep College Credit Certificates and used by secondary and post-secondary for reporting program effectiveness. Any public reports are in aggregate form and protect student identity.

College Credit Opportunities	Anoka Tech College	Alexandria Tech College	Dunwoody Col Of Tech	Hennepin Tech College	Model College of Hair Design	No. Hennepin Com. Coll.	Regency Beauty Institute	Ridgewater Com & Tech	Scot Lewis School of Cos.	St. Cloud Tech College
Automotive Technology	♦		♦					♦		♦
Child Care Careers				♦						♦
Construction Trades			♦	♦						♦
Cosmetology Careers					♦		♦		♦	
Graphic Communications	♦		♦	♦						♦
Health Science Technology				♦						♦
Landscape/Greenhouse Car.	♦			♦						
Law Enforce./Firefighting Car.		♦								
Welding Careers	♦		♦	♦				♦		♦

### **8100/8101/8102/8103 Automotive Technology**

If you have a passion for cars and are interested in a well-paying career, you'll want to enroll in the Automotive Technology program. You'll cover the following four areas: brakes, steering and suspension, basic electricity & electronics, and drivability. Time will be divided between the classroom and our automotive lab. There will be a focus on Math, Science, and English as well as the automotive technology needed to become a successful automotive technician in today's competitive technological world. While in the lab you'll learn concepts behind today's sophisticated vehicles. You'll get plenty of hands-on experience with state-of-the-art tools and equipment. Skills for success include mechanical aptitude, good problem solving skills, detail oriented, manual dexterity, basic & technical reading, writing skills, math and computer skills. You need to be a responsible team player and a good communicator.

Grades 11-12 Terms 2 and 2 blocks per term

*\*There will be a shop fee of approximately \$15, which is non-refundable.*

*\*Students interested in ASE & NATEF Certification will need to have a personal interview before being selected for this program.*

**Second year** opportunities are available and students need to be able to work independently, maintain a "B" average and have the approval of the instructor to participate. This may include choosing to continue learning through a paid apprenticeship with a local dealership or independent service center.

### **8117/8118/8119/8120 Construction Technology**

Students who enroll in this course become members of the construction crew that builds a house from layout to final trim work. You'll learn construction terminology, tool identification and use, blueprint reading, layout and framing, sheathing, roofing, siding, window and door installation, insulating, drywall and taping, painting, cabinet construction, and interior and exterior finishing—all necessary components to build that house! You'll also learn: power tool safety & operation, concrete/masonry, wood manufacturing/cabinetry and commercial construction. Skills for success include manual dexterity, hand & eye coordination, physical stamina, math, blueprint reading and problem-solving skills. You will need to be dependable and have a strong work ethic. You will assist in the construction of various school and community projects based on industry standards and practices. You'll also develop skills using carpenter's hand tools, and stationary and portable tools used in the construction industry.

Grades 11-12 Terms 2 and 2 blocks per term

*\*There is a required deposit of approximately \$40.00 for tools, safety glasses, and hard hats. \$20.00 may be refunded at the end of the school year.*

**Second year** opportunities are available to continue your training. Students who maintain a "B" average and have the approval of the instructor may participate in Construction Trades for an additional year of training. Second year students are required to complete an application in order to be considered for the second year.

### **8136/8137/8138/8139 Cosmetology Careers**

Cosmetology Careers offers students the basic knowledge of theory and skills into the Professional Industry of Beauty. Students will learn hands on skills including manicure, pedicure, hair cutting, hairstyling, shampoo/draping, skin care, facials, coloring, foiling & perming. Skills for success include ability to work independently, hand & eye coordination, positive friendly personality, ability to work with all types of personalities, basic math and reading skills, dependability and strong work ethic and manual dexterity.

The cosmetology industry is regulated by the Board of Cosmetology. As a cosmetology student you will study the basic laws & rules of Minnesota and practice them in the salon like clinic floor setting. While attending this state of the art cosmetology class, your learning experience will help you explore and answer your questions relating to the many careers in the cosmetology field.

Grades 11-12 Terms 2 and 2 blocks per term

*\*There is a required non-refundable fee of approximately \$30 for the purchase of your own mannequin head.*

**Second year** opportunities are available for students who are able to work independently, maintain a "B" average and have the approval of the instructor.

### **8113/8114/8115/8116 Early Childhood & Elementary Careers**

*Birth through Grade Six*

You'll have an opportunity to study child development—newborn through school age children. You'll gain skills developing curriculum and learn about guidance and discipline. You'll learn about special

needs children and child abuse. You'll also work with the Ellison lettering machine, the laminating machine and projection equipment, and with computer applications. You'll have an opportunity to job shadow, as well as investigate career possibilities. The internship opportunities, along with your Head Start experiences, will provide you with invaluable experiences if your future includes working with children as an elementary or special education teacher, a day care provider, or as a nanny. **Skills for success** include excellent communication and social skills, ability to stand for long periods of time, alert and aware of what's going on around you, able to handle on-the-job stress and basic math and reading skills. You'll be able to put your classroom knowledge to work by having hands-on experiences with the Head Start children in the lab. Internships are also available in community-based day care centers, Head Start programs, special needs programs and elementary schools. You may also participate in the student youth organization—Home Economics Related Organization (HERO).

Grades 11-12 Terms 2 and 2 blocks per term

**Second year** opportunities are available. Students who maintain a "B" average and have the approval of the instructor may participate in an additional year of training and work on tech prep college credits. Students are required to complete an application in order to be considered for the second year.

### **8025/8026/8027/8028 Graphic Communications**

You'll develop and enhance your presentation and writing abilities. You'll complete projects, which simulate industry standards. You will gain entry-level knowledge and skills required of this fast-paced industry. You'll learn basic technical skills needed to be successful in the industry including: electronic publishing, digital photography, offset press operation, bindery machine operation and screen printing. **Skills for success** include being able to work independently, ability to organize information visually, ability to read a ruler, hand-eye coordination, ability to work quickly and accurately, creative ability and problem solving skills and basic math and reading skills. The opportunity exists to participate in field trips and industry tours, hear from classroom guest speakers and to participate in the Printing Industry of Minnesota printing competition.

Grades 11-12 Terms 2 and 2 blocks per term

*\*Class fee will be \$25 to cover safety glasses and supplies.*

**Second year** opportunities are available. Students are required to complete an application in order to be considered.

### **8141/8142/8143/8144 Health Science Technology/Nursing Assistant**

You'll have hands-on training in first aid, CPR, defibrillation, vital signs, etc. You'll learn the complex language of the medical community and legal and ethical responsibilities in health care. This yearlong program teaches you medical terminology, health care environment and safety issues, standard precautions, medical ethics, how to research a disease, and research a health career, critical thinking, and teamwork. In **Health Science Technology** you'll have hands-on training in First Responder, CPR, defibrillation, vital signs, etc. You'll learn the complex language of the medical community and legal and ethical responsibilities in health care. In the **Nursing Assistant** program you will need to be patient and understanding, honest and trustworthy, conscientious, courteous & respectful, empathic, dependable and responsible, humble and open to growth, tolerant and have a desire to be in a health care profession that gives direct patient care. If you have those traits, then you have what it takes to be a nursing assistant. **Skills for success** include basic math, reading and writing skills, ability to identify problems quickly, good hand-eye coordination, good communication skills, excellent people skills and ability to be tolerant, patience, understanding and ability to be empathic, honest & trustworthy, conscientious, dependable and responsible and courteous and respectful. You'll participate in life-like scenarios in First Responder training, game playing to learn medical terminology, interactive computer to learn anatomy and physiology, participate in group activities, view special disease related videos and hear guest speakers. You'll work with automated external defibrillators, stethoscopes, sphygmomanometers, and more. You'll also be able to participate in HOSA. HOSA is a student career and technical organization, which will help you to build leadership skills. HOSA is 100% health care. You will also participate in several community service projects such as a food drive, and you can also demonstrate what you know in HOSA competition.

Grades 11-12 Terms 2 and 2 blocks per term

**Second year** opportunities are available. Students are required to complete an application in order to be considered for the second year. Depending on the medical area, most workers need less than two years or

up to four years of education and training. To help students prepare to meet the demands of post-secondary programs or for today's technical job market, tech prep college credits are available through St. Cloud Technical College and Hennepin Technical College. Health Care careers are in great demand. Get your head start here!!

### **8044/8045/8046/8047 Law Enforcement/First Responder & Fire Fighting**

In class you'll find a career in Law Enforcement and Firefighting to be challenging and personally rewarding. This program combines essential academic instruction with the hands-on training needed to develop the knowledge and skills needed for Law Enforcement/First Responder and Firefighting. **Skills for success** include writing and reading skills, critical thinking skills, detail orientated, decisiveness, listening & public speaking skills, and time management skills. Guest speakers, discussions, demonstrations, lectures, role-playing, and practical exercises are just some of the activities that will allow you to better understand the various training procedures for Law Enforcement and Fire Fighting.

Grades 11-12 Terms 2 and 2 blocks per term

**Second year** opportunities are available. You'll need to complete an application and maintain a "B" average or better to be considered for the second year program.

#### **Areas of study for Law Enforcement include:**

- Crime Scene investigation
- Criminal Justice: policing, courts & corrections
- Patrol procedures and tactics
- Squad Car Familiarization
- Ethics
- High and low risk traffic stop techniques
- Radio communication
- First Responder
- Fingerprinting and booking
- Report Writing

#### **Areas of study for Firefighting include:**

- Firefighting procedures and tactics
- Chemistry and physics of fire behavior
- Apparatus-Operator functions
- Dealing with hazardous materials
- Emergency medical incidents

#### **Areas of study for First Responder include:**

- First responder certification
- CPR
- Oxygen
- Automated External Defibrillation
- Epinephrine
- Inhaler
- Blood borne pathogens

### **Project Lead the Way - Engineering**

**This high school program is a four year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering prior to entering college. However, those not intending to pursue further formal education will benefit greatly from the knowledge and logical thought processes that result from taking some or all of the courses provided in the curriculum.**

**Skills needed for these programs are a high interest in Mathematics and Science and the ability to work independently.**

This program consists of two parts: the first part is an introduction to Engineering Design and teaches problem solving skills using a design development process. The second part is the Principles of Engineering and helps students understand the field of engineering and engineering technology.

### **8001/8002/8003/8004 Introduction to Engineering Design**

This course teaches problem-solving skills using a design development process. Models of product solutions are created analyzed and communicated using solid modeling computer design software. In NYS, circuit test the course is called Design and Drawing for Production and follows the syllabus developed by the State Education Department.

Grades 11-12 Terms 2

### **8105/8106/8107/8108 Principles of Engineering**

This course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

Grades 11-12 Terms 2

### **8132/8133/8134/8135 Welding**

This hands-on curriculum will teach you gas, arc, wire feed, and TIG welding. You'll learn the basic safety and welding procedures using state of the art equipment for all welding processes. You'll learn brazing and flame cutting. You'll also learn drafting and basic metallurgy for welding. You'll weld mild steel, cast iron, carbon steels, stainless steels, alloy steels and non-ferrous metals. **Skills for success** include mechanical aptitude, manual dexterity, hand-eye coordination, detail oriented, ability to problem solve and basic math and reading skills. You'll also have the opportunity to participate in welding contests at the technical colleges. You may also participate in the American Welding Society (AWS).

Grades 11-12 Terms 2 and 2 blocks per term

*\*It is recommended that each student purchase his/her own welding leathers, gloves, safety glasses and welding helmet –at an approximate cost of \$70 -\$80.*

**Second year** opportunities are available. Students are required to complete an application in order to be considered for the second year.

### **8121/8122/8123/8124 On the Job Training = OJT “Earn \$ while you learn!”**

This program consists of two parts: Your classroom instruction will include the following topics: human relations in the workplace, workplace and financial issues, labor laws, safety training, employment readiness and career exploration. The second part of your course consists of experiential learning through paid work experience at a part time job. Students in this program need to be interested in exploring careers by combining classroom instruction with on-the-job training. Skills for success include dependability and a strong work ethic, ability to work as a team member, excellent communication skills, basic reading, writing and math skills and work-readiness skills.

Grade 12 Terms 4

#### **Each student must agree to:**

- Attend a required class at WTC one day a week.
- Cannot quit or change jobs without first discussing the problem with the instructor.
- Provide photocopies of all pay stubs for every day of work.
- Follow OJT job guidelines which include:
  - 1) a direct supervised part time job
  - 2) not supervised by a relative;
  - 3) have one employer for the entire year;
  - 4) work at least 10 hours a week,
  - 5) employment relates to the student's career goals.

# *Arts Magnet Program*

“Academic Excellence through Artistic Inquiry”

- **Imagine**

Imagine a high school where you can pursue your artistic passion, a place where you can approach learning from an artist’s perspective. This place is the Arts Magnet Program at Buffalo High School.

- **Challenge**

You will complete a rigorous, standards based curriculum that challenges you both intellectually as well as artistically and will prepare you for whatever post secondary future you choose. Each day you will engage in activities that support and encourage your development as an artist and push you to become the best you can be.

The BHS Arts Magnet Program offers majors in the four arts magnet school strands; Visual Arts(Fine & Applied), Performing Arts (music, theater and dance), Literary Arts, and Media/Technology (video, photography, animation, and computer based arts). It also offers an academically focused program that provided you with a solid education in mathematics, the sciences, social studies, English and foreign language.

- **Create**

A creative, inquiry based learning environment includes partnerships and resources from the surrounding community. The BHS Arts Magnet Program will provide you with the opportunity to interact with professional, working artists and arts organizations to enrich and enlarge your learning.

- **Support**

The BHS Arts Magnet Program, located in Buffalo, Minnesota, serves grades 9-12. The arts departments at BHS are known for their excellence; the music department is recognized as one of the best in the nation, theater productions regularly win starred ratings, and student artwork is published in national journals, wins national awards and is exhibited in a variety of locations.

- **Experience**

Experience the arts in a whole new light. Let your imagination run free. Challenge yourself in courses tailored specifically in the arts. Create new friendships through exploring new opportunities. Work and learn with other students and teachers who embrace the arts and realize their importance in all cultures.

***DEAR PARENT** – It is our desire that students will be able to take all of the courses recommended for completing the concentration. However, the master schedule at BHS is driven by student enrollment through the registration process. On a rare occasion a course might not be offered because the enrollment is not sufficient to offer the course. If that occurs, the Arts Magnet administrator will meet with the student to explore the alternatives available to meet this requirement and provide a unique experience.*



where students will use shared inquiry, arts, and performance in the process of learning about themselves and their relationship to their American political, historical and cultural heritage. The course includes equal state academic standards and core outcomes as American History 10.

*This course is taken concurrently with Arts Infused American Literature/ English 10.*

Grade 10      Terms: 2

**0160/0161 Arts Infused World Studies 11**

***NCAA approved***

This course is designed to introduce students to different places and time periods in the world through history, geography, and culture. A variety of artistic skills will be addressed by studying various art pieces in history and examining the cultural aspects of the places of interest. Performances and artists in residence will also be used as available during each term. Topics for term one include: Early Civilizations, Ancient Egypt, Ancient Greece, Ancient Rome, and the Middle East (past & present). Topics for term two include Genocide and the holocaust, Africa, India and China, and Latin America.

*This course is taken concurrently with Arts Infused World Literature/ English 11*

Grade 11      Terms: 2

**0142/0143 Arts Infused English 9**

***NCAA approved***

This course is designed to introduce students to a thematic survey of our literary, historical, cultural and social heritage using historical texts, original documents, short stories, essays, poems, novels, and drama. It will provide an interdisciplinary learning environment where students will use shared inquiry, visual art, literary art, and performance in the process of learning about their relationship to their literary, historical and cultural heritage and how people govern themselves.

*This course is taken concurrently with Arts Infused American Experience 9.*

Grade 9      Terms: 2

**0150/0151 Arts Infused American Literature 10**

***NCAA approved***

This course is designed to introduce student to a thematic survey of our literary, historical, cultural and social heritage using historical texts, original documents, short stories, essays, poetry, novels and drama. This course will provide an interdisciplinary learning environment where students use shared inquiry, arts and performance in learning about themselves and their relationship to their American literary, historical and cultural heritage. This course meets the same state academic standard and core outcomes as American Literature.

*This course is taken concurrently with Arts Infused American History 10.*

Grade 10      Terms: 2

**0158/0159 Arts Infused World Literature 11**

***NCAA approved***

This course is designed to survey the stories, ideas, and cultures of the world using short essays, stories, poems, novels, and drama. Students will use the inquiry process and artistic performance to learn about themselves and their relationship to other cultures. Four key themes will structure the course: 1.) the Earliest Stories; 2.) Injustice; 3.) Ideology and Philosophy; 4.) Taking Perspective.

*This course is taken concurrently with Arts Infused World Studies/ Social Studies 11*

Grade: 11      Terms: 2

## Arts Magnet Program Majors

**Visual Arts** The visual arts program is designed to meet the needs of students who are preparing for the competitive world of art schools and other art fields. Students should have an intense interest in creating art and learning about art and artists.

### **Fine Art**

This program stresses drawing and a variety of two-and three-dimensional activities. Students also will gain an understanding of current and historic art and ideas through field trips, artists in residence, and museum/gallery visits.

### **Applied Art**

The mission of Applied Arts is to encourage students to express and explore the arts through design in all aspects of their lives. There are 3 main focus areas – interior design, foods and fashion design.

**Literary Arts** The mission of creative writing is to cultivate students as creators, consumers and publishers of literature. This program develops creative writing in all writing modes and focuses on the individual student's growth as a writer. Students experience a variety of writing forms—narrative, poetry, play writing, print and television journalism, and essay. Students master their skills through print publications, the student newspaper, literary magazine and yearbook, and media productions.

### **Performing Arts**

#### **Dance**

Every student will benefit from dance, whether doing it for fun, or pursuing a career. Classes are designed to foster a worldview that develops an appreciation for all dance cultures. Emphasis is on basic movement skills – B.A.S.T.E (body, action, space, time, energy). Students use these movement skills to express themselves and communicate meaning, thereby finding a personal voice through dance. Students at all levels are offered the opportunity to work directly with professional artists and perform for the community.

#### **Music (Instrumental or Vocal)**

A variety of musical opportunities are available to students at BHS. Students participate in band, choir and full orchestra, large and small vocal and instrumental jazz ensembles. A variety of other performance opportunities are offered which include solo and ensemble contests, a variety show and an annual musical. Voice and instrumental private and small-group lessons are available. Students are challenged academically in such courses as Advanced Placement Music Theory, Classical Music Listening and American Popular Music. A state-of-the-art facility and music technology provide an inspirational space and the tools needed to encourage and develop high quality musicianship.

#### **Theater**

The Buffalo High School Theatre Program offers students a variety of opportunities to explore the world of drama. Its mission is to provide a comprehensive and intensive study of the theatre by focusing on the “process” rather than the “product.” Graduates will have the necessary training and skills to continue their studies at any professional training program in the country while also preparing for success in college, in the arts or in any discipline. Students learn both acting and technical theater skills. They are also exposed to professional artists and companies and will be involved in directing/design projects at the end of each season.

**Media/Technology Arts** This major offers students a unique opportunity to integrate their learning with courses from several departments. Students will begin with a firm foundation in the visual arts; developing drawing skills and an understanding of the principles of design. Courses in animation, web design, graphic design, photography, video and visual communications will enable to student to gain experience in various media formats. Students at all levels will master their skills through projects that will incorporate practical applications.

# Visual Arts Concentration

## Fine Arts Program Philosophy

The fine arts program is designed to meet the needs of students who are preparing for the competitive world of art schools and other art related fields. Students should demonstrate an intense interest in creating art and openness and enthusiasm for learning about art and artists. This intensive program stresses drawing and a variety of two- and three-dimensional activities. In addition, students gain an understanding of current and historic artworks and ideas through special classes, artists in residence, and museum and gallery visits.

The Art Department at BHS believes the following:

- Art is the language we use to communicate ideas and emotions. We need to learn to use this language to read and enjoy other people's artwork and send out own messages.
- Art is not reserved for the talented few. Everyone has the capability and with to be creative and produce art.
- The art we create is a reflection of the world we live in, the people we know and our own values and beliefs.
- The process of creating an artwork can be just as important as the product – sometimes it is more important.

In art classes students will be given the opportunity to experiment with various art media, learn about artists and philosophies and develop their own creative voice. Everyone can create art.

## Class Schedule

### COURSES for the concentration

You must take these classes before you take any of the electives listed below.

9-12<sup>th</sup> grade

- Arts Infused Foundations (2 terms)
- Art 1 (2 terms)

### ELECTIVES

*Take at least 4 (you may choose more). Some classes are prerequisites to the others. All classes require that students take Arts Infused Foundations, and Art 1A & B first.*

- Drawing I (1 term)
- Drawing II (2 terms) (prerequisite Drawing I)
- Painting I (1 term)
- Painting and Drawing 2 (2 terms) (prerequisite Painting or Drawing I)
- Ceramics and Sculpture I (1 term)
- Ceramics and Sculpture II (2 terms) (prerequisite Ceramics and Sculpture I)
- Ceramics III (prerequisite Ceramics and Sculpture I and II)
- Jewelry and Small Sculpture (1 term) (prerequisite Ceramics and Sculpture I)
- Students should also check courses in the Media Arts major (for example Graphic Design and Animation) and the Computer Aided Drafting courses.

### SENIOR PROJECT

During their senior year students will complete a series of artworks and produce a senior exhibit.

Students will also have the opportunity to work with professional artists in their area of interest.

Internships and mentorship experiences will be arranged as available.

Students must take at least 4 of the electives for this concentration. It is not required that students these courses in this exact order, however some courses are prerequisites to others (ex: Drawing I is taken before Drawing II).

### Applied Arts Program Philosophy (within the Family & Consumer Science Department)

The mission of Applied Arts is to encourage students to express and explore the arts in all aspects of their lives as well as prepare students for creative and innovative problem solving career responsibilities. This program allows students to apply their passion for design in three major focus areas – interior design, foods, and fashion design. Students will gain an understanding of current and historic trends in interior, fashion and food design.

- **Interior Design** – Learn about the important components of a well-designed room and demonstrate interior design skills using the elements and principles of design. Judge effective interior design and create a variety of interior design skills. Develop a portfolio of originally designed interiors while exploring careers in the field of interior design.
- **Fashion Design** – Explore clothing and accessory design and construction; textiles; costume history; and fashion design and construction; and career exploration
- **Foods** – Explore basic food preparation, garnishing and presentation, food styling and photography, and international trends in foods.

The Family & Consumer Sciences department at BHS believes that we are creators and consumers. We believe that art and beauty are a part of everyday life; in the clothing we wear, the food we eat, and the spaces we live and work in.

### **Class Schedule**

#### **REQUIRED COURSES for the concentration**

##### **Interior Design**

- Arts Infused Foundations (2 terms)
- Art 1 (2 terms)
- Drawing 1 (1 term)
- Introduction to CAD (1 term) (alternate housing project)

##### **Foods**

- Arts Infused Foundations (2 terms)
- Art 1 (2 terms)
- Visual Technology (1 term) (focus on photography)

##### **Fashion Design**

- Arts Infused Foundations (2 terms)
- Art 1 (2 terms)
- Drawing 1 (1 term)

#### **ELECTIVES**

##### **Interior Design**

- Creating Interior Spaces (1 term)
- Architectural Design (1 term)
- Independent Study (1 term) (Design the exterior and interior of a residential or commercial building)

##### **Foods**

- Creative Foods (1 term)
- Gourmet Foods (1 term)
- Mentorship (1 term) (working with a chef)

##### **Fashion Design**

- Clothing 1 (1 term)
- Clothing 2 (1 term)
- Independent Study (1 term)

#### **SENIOR PROJECT**

During their senior year students will select and complete one or more student and advisor developed projects.

##### **Interior Design**

- Design project with renderings and elevations of interior (and exterior) spaces.
- Portfolio presentations.
- Intern with interior design professional.

##### **Foods**

- Portfolio presentation.
- Intern with a chef.

##### **Fashion Design**

- Designed and constructed costume.
- Fashion illustrations of designs
- Internship/mentorship with theatre costume shop
- Exhibit your work.

# Dance Concentration

## Program Philosophy

The Dance Program is a place where students are free to explore, create, and perform the art of dance. Students will develop physically, intellectually, and imaginatively through their studies of dance technique, history, performance, and composition. Through these classes, students will gain a historical context, understanding, and deeper appreciation of dance as a form of art and entertainment.

## Class Schedule

### COURSES for the concentration

*You must take these classes before you take any of the electives listed below.*

9-11<sup>th</sup> grade

- Arts Infused Foundations (2 terms)
- Intro to dance

### ***ELECTIVES*** –

*Some classes are prerequisites to the others. All classes require that students take ARTS Foundations and Intro to Dance first.*

Grades: 9-12

Intro to Dance 1 term

Dance 1 1 term (pre-requisite: Intro to Dance)

Grades: 10-12

Dance II 1 term (pre-requisite: Dance 1)

Modern & Ballet Technique 1 term (pre-requisite Dance II)

Tap, Jazz & Musical Theater Technique 1 term (pre-requisite Dance II)

### **After School Activities:**

Dance Performance Workshop: Dance Company

Grades 9-12

- This after school activity is offered at 2 levels. There are required performances for both levels. Focus in these classes is on choreography and performance.
  1. *Apprentice Dance Company* requires no audition and is open to anyone enrolled in a dance class, art magnet program, or has a teacher recommendation.
  2. *Advanced Dance Company* requires an audition.

Pre-requisite: Intro to Dance, Dance I (either emphasis), or dance teacher approval.

### ***SENIOR PROJECT***

During their senior year students will complete a study of choreography and produce a senior dance. Students will also have the opportunity to work with professional artists in their area of interest. Internships and mentorship experiences will be arranged as available.

# Literary Arts Concentration

## Program Philosophy

The mission of creative writing is to cultivate students as creators, consumers, and publishers of literature. This program develops creative writing in all writing modes. The focus is on the individual student's growth as a writer. Students experience a variety of writing form – narrative, poetry, playwriting, print and television journalism, and essay. Students master their skills through print publications, the student newspaper, literary magazine and yearbook, and media productions.

## Class Schedule

### COURSES for the concentration

*You must take these classes before you take any of the electives listed below.*

- Arts Infused Foundations (2 terms)

*Some classes are prerequisites to the others. All classes require that students take ARTS Foundations first.*

***Take at least 2 of the following (you may choose more).***

- Creative Writing 1 – Poetry (10-12)
- Creative Writing 1 – Playwriting (10-12)
- Creative Writing 1 – Fiction (10-12)
- Creative Writing 1 – Creative non-fiction (10-12)

***In your junior or senior year you will take***

- Creative Writing II (11-12)

***Take at least 2 (you may choose more).***

- Stage acting and playwriting (10-12)
- Publications Writing (Yearbook) (11-12)
- Journalism (Newspaper) (9-12)
- College in the Schools writing practice (11-12) (*prerequisite, top 30% of senior class*)
- College Prep Writing (11-12)

**ELECTIVES for the major You must take at least 2 (you may choose more).**

- Classic Drama as literature (10-12)
- Women in literature (10-12)
- Short stories: seminar (11-12)
- Classic Novel (11-12)
- College in the Schools: Introduction to Literature (11-12)
- Contemporary Literature (11-12)
- American Literature and Composition (11-12)

## SENIOR PROJECT

During their senior year students will complete a series of works and produce a senior collection. Students will also have the opportunity to work with professional artists in their area of interest. Internships and mentorship experiences will be arranged as available.

# Media Arts Concentration

## Program Philosophy

This major offers students a unique opportunity to integrate their learning with courses from several departments. Students will begin with a firm foundation in the visual arts; developing drawing skills and an understanding of the principles of design. Courses in animation, web design, graphic design, photography, video and visual communications will enable to student to gain experience in various media formats. Students at all levels will master their skills through projects that will incorporate practical applications.

The Buffalo Arts Magnet Program (BAMP) Media Arts Program teaches analysis, creation, and appreciation of media arts. As students progress through the program, they will build upon their media arts knowledge to develop their personal voice within aesthetic, cultural, and historical contexts. The students will leave the BAMP with a well-rounded knowledge base in diverse areas of media arts.

The Media Arts Program ties together six focus concepts within each area:

1. Appreciation
2. Creation
3. Analysis
4. History
5. Technology
6. Career

## Class Schedule

### COURSES for the concentration

You must take these classes before you take any of the electives listed below.

9-12<sup>th</sup> grade

- Arts Infused Foundations (2 terms)
- Word Processing
- Art 1 (2 terms)

### ELECTIVES

*Take at least 4 (you may choose more). Some classes are prerequisites to the others. All classes require that students take ARTS Foundations, Art 1, and Word Processing first.*

- Computer Graphics (9-12)
- Graphic Design 1 (10-12) – prerequisite Computer Graphics
- Graphic Design 2 (10-12) – prerequisite Computer Graphics and Design 1
- Web 1: Design (10-12)
- Web 2: Multimedia (10-12) – prerequisite Web 1: Design
- Web 3: Applications (12) – prerequisite Web 2: Multimedia
- Visual Tech (11-12)
- Animation (11-12)
- Students should also consider the Computer Aided Drafting courses

### ENGLISH REQUIREMENTS

You must choose at least 1 of these classes for at least 2 terms.

- Yearbook – (11-12) 3 terms
- Mass Media A and B – (11-12) 2 terms
- Journalism – (11-12) 2 terms
- 

### SENIOR PROJECT

Senior year, students will have the opportunity to intern at a business. Students will be able to apply the skills they have learned in class to a build their resumes and college applications. Time commitment is negotiable dependent of the internship and student's interest

Students must take at least 4 of the electives for this concentration and one of the suggested English classes for at least 2 terms. Keep in mind that Mass Media and Journalism are 2 terms, while Yearbook is 3 terms. It is not required that students these courses in this exact order, however some courses are prerequisites to others (ex: Web Design is taken before Advanced Web Design.)

# Music Arts Concentration

## Program Philosophy

A variety of musical opportunities are available to students at BHS. Students participate in band, choir and full orchestra, large and small vocal and instrumental jazz ensembles. A variety of other performance opportunities are offered which include solo and ensemble contests, a variety show and an annual musical. Voice and instrumental private and small-group lessons are available. Students are challenged academically in such courses as Advanced Placement Music Theory, Classical Music Listening and American Popular Music. A state-of-the-art facility and music technology provide an inspirational space and the tools needed to encourage and develop high quality musicianship.

The music program at BHS is designed to promote the serious study of many different styles of music to all interested students. The objectives are to study and/or perform the finest music literature possible. Students in performance classes will perform at concerts, festivals, selected athletic events, civic and community functions and various other occasions. All bands and choirs are scheduled opposite each other so some students wishing to participate in both will have the opportunity to do so. **MUSIC PERFORMANCE CLASSES ARE A YEAR LONG COMMITMENT (Varsity Choir is Terms 2-4 only).**

## Class Schedule

### COURSES for the concentration

*You must take these classes before you take any of the courses listed below.*

- Arts Infused Foundations (2 terms)

Music majors are required to be in a performance ensemble all 4 years and for the full time commitment of each class. These include:

9<sup>th</sup> grade (must chose at least one of these)

- Orchestra
- Applied Contemporary Music (formerly garage band)
- Freshman Band and/ OR Freshman Choir

10<sup>th</sup> – 12<sup>th</sup> grade (must chose at least one of these)

- Orchestra
- Applied Contemporary Music (formerly garage band)
- Varsity Band and/ OR Choir

**OR**

- Concert Band and/ OR Choir

### Seniors are required to take

- Classical Music Listening
- Advance Placement (AP) Music theory

### ***ELECTIVE CHOICES***

- Music in America
- Applied Contemporary Music (formerly garage band) for those students also in another performance ensemble.

### ***SENIOR PROJECT***

During their senior year students will complete a series of works and produce a senior concert. Students will also have the opportunity to work with professional artists in their area of interest. Internships and mentorship experiences will be arranged as available.

# Theater Arts Concentration

## **Program Philosophy**

The Buffalo High School Theatre Program offers students a variety of opportunities to explore the world of drama. Its mission is to provide a comprehensive and intensive study of the theatre by focusing on the “process” rather than the “product.” Graduates will have the necessary training and skills to continue their studies at any professional training program in the country while also preparing for success in college, in the arts or in any discipline. Students learn both acting and technical theater skills. They are also exposed to professional artists and companies and will be involved in directing/design projects at the end of each season.

## **Class Schedule**

### **COURSES for the concentration**

*You must take these classes before you take any of the electives listed below.*

- Arts Infused Foundations (2 terms)

### **ELECTIVES – writing and literature**

*Take at least 2 (you may choose more). Some classes are prerequisites to the others. All classes require that students take ARTS Foundations first.*

- Creative Writing I – Playwriting (10-12)
- Creative Writing I – Fiction (10-12)
- Classic Drama as Literature (10-12)
- Creative Writing II (11-12)

### **ELECTIVES – acting**

*Some classes are prerequisites to the others. All classes require that students take Arts Infused Foundations first.*

- Stage Acting I (9-12)
- Stage Acting II (10-12)
- Theater Production (11-12)
- Stage Acting and Playwriting (10-12)

### **SENIOR PROJECT**

During their senior year students will complete one of more of the choices listed below.

- Internship with a professional theater company or other appropriate theater company
- Mentorship with theater professional, or
- Leadership position in the BHS extracurricular theater program.

**BUFFALO HIGH SCHOOL  
COURSE REQUESTS  
Grade 9**

Please complete this worksheet prior to registering online. Print clearly. Check carefully the course numbers & titles. Your choices will be available on the Student Portal for you and your parents to discuss. Classes listed have already been assigned.

**BHS STUDENTS**  
 3500/3501 English 9 A & B  
 6501/6502 American Experience A & B  
 6060/6061 Science 9  
 5502/5503 Physical Education 9  
 \_\_\_\_\_ 4522/4523 Algebra  
 OR (choose one)  
 \_\_\_\_\_ 4517/4518 Geometry  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective

**ARTS MAGNET STUDENTS**  
 0118/0119 Arts Infused Foundations  
 0142/0143 Arts Infused English 9  
 0144/0145 Arts Infused American Experience  
 0148/0149 Arts Infused Intro to Science  
 5502/5503 Physical Education 9  
 \_\_\_\_\_ 4522/4523 Algebra  
 OR (check one)  
 \_\_\_\_\_ 4517/4518 Geometry  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective

**BHS *Band/Choir* STUDENTS**  
 3500/3501 English 9 A & B  
 6501/6502 American Experience A & B  
 6060/6061 Science 9  
 \_\_\_\_\_ 4522/4523 Algebra  
 OR (check one)  
 \_\_\_\_\_ 4517/4518 Geometry  
 \_\_\_\_\_ 5017 Freshman Band  
 OR (check one)  
 \_\_\_\_\_ 5018 Freshman Choir  
 Alternating with  
 5036 Physical Education  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective  
 \_\_\_\_\_ Elective

**ALTERNATE CHOICES**  
 Please list alternates in priority order.  
 Course Number Title  
 1 \_\_\_\_\_  
 2 \_\_\_\_\_  
 3 \_\_\_\_\_

Parent signature \_\_\_\_\_ Date \_\_\_\_\_

Please hand in this worksheet when finished entering choices.

**BUFFALO HIGH SCHOOL  
COURSE REQUESTS  
Grade 10**

Please complete this worksheet prior to registering online. Print clearly. Check carefully the course numbers & titles. Your choices will be available on the Portal for you and your parents to discuss.

Classes listed have already been assigned.

**BHS STUDENTS**

3504/3505 English 10 A & B  
6503/6504 American History A & B  
6010/6011 Biology  
5500 Health

\_\_\_\_\_ PE choice  
\_\_\_\_\_ Math choice  
\_\_\_\_\_ Math choice  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective

**ARTS MAGNET STUDENTS**

0150/0151 Arts Infused American Literature  
0152/0143 Arts Infused American History  
0156/0157 Arts Infused Science II  
5500 Health

\_\_\_\_\_ Math choice  
\_\_\_\_\_ Math choice  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective  
\_\_\_\_\_ Elective

**ALTERNATE CHOICES**

Please list alternates in priority order.

Course Number	Title
1 _____	_____
2 _____	_____
3 _____	_____

**BUFFALO HIGH SCHOOL  
COURSE REQUESTS  
Grade 11**

Please complete this worksheet prior to registering online. Print clearly. Check carefully the course numbers & titles. Your choices will be available on the Portal for you and your parents to discuss.

Classes listed have already been assigned.  
WTC courses use all 4 numbers.

**BHS STUDENTS**

6514/6515 World Studies A & B

- \_\_\_\_\_ English choice
- \_\_\_\_\_ English choice
- \_\_\_\_\_ Science choice
- \_\_\_\_\_ Science choice
- \_\_\_\_\_ Math choice
- \_\_\_\_\_ Math choice
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective

**ARTS MAGNET STUDENTS**

0158/0159 Arts Infused World Literature 11

0160/0161 Arts Infused World Studies 11

- \_\_\_\_\_ Science choice
- \_\_\_\_\_ Science choice
- \_\_\_\_\_ Math choice
- \_\_\_\_\_ Math choice
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective
- \_\_\_\_\_ Elective

**ALTERNATE CHOICES**

Please list alternates in priority order.

- | Course Number | Title |
|---------------|-------|
| 1 _____       | _____ |
| 2 _____       | _____ |
| 3 _____       | _____ |

**BUFFALO HIGH SCHOOL  
COURSE REQUESTS  
Grade 12**

Please complete this worksheet prior to registering online. Print clearly. Check carefully the course numbers & titles. Your choices will be available on the Portal for you and your parents to discuss.

Classes listed have already been assigned.  
WTC classes use all 4 numbers.

**BHS STUDENTS**

6507	Economics	
_____		English choice
_____		English choice
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective

**ARTS MAGNET STUDENTS**

0003	Arts Infused Capstone	
6507	Economics	
_____		English choice
_____		English choice
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective
_____		Elective

**ALTERNATE CHOICES**

Please list alternates in priority order.

Course Number	Title
1 _____	_____
2 _____	_____
3 _____	_____

