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**BHS REQUIRES 30 CREDITS FOR GRADUATION**

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>CREDITS</th>
<th>BHS REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>1 credit</td>
<td>English 9</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
<td>English 10</td>
</tr>
<tr>
<td></td>
<td>2 credits</td>
<td>Student Choice</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hit all 5 standards</td>
</tr>
<tr>
<td>Math</td>
<td>3 credits</td>
<td>Algebra 1.5</td>
</tr>
<tr>
<td></td>
<td>*Sequence depends on student</td>
<td>Geometry</td>
</tr>
<tr>
<td></td>
<td>performance and ability.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Must include 1 credit of</td>
<td>Algebra 2</td>
</tr>
<tr>
<td></td>
<td>Algebra 2</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>1 credit</td>
<td>Science 9</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
<td>Biology</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
<td>.5 credit Chemistry/Physics &amp; .5 credit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>student choice</td>
</tr>
<tr>
<td>Social Studies</td>
<td>1 credit</td>
<td>American Government 9</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
<td>American History 10</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
<td>World Studies 11</td>
</tr>
<tr>
<td></td>
<td>1/2 credit</td>
<td>Economics</td>
</tr>
<tr>
<td>Humanities</td>
<td>1 credit</td>
<td><strong>ALL Art, Music &amp; Dance Courses</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stage Acting I &amp; II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Web I - Introduction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photoshop Editing &amp; Design</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Illustrations &amp; Animation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer Graphics II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Visual Technology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Video &amp; Multimedia Productions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts Foundations</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1 credit</td>
<td>Physical Education 9</td>
</tr>
<tr>
<td></td>
<td>1/2 credit</td>
<td>Physical Education 10 Elective Course</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>(students choose from a menu of options)</em></td>
</tr>
<tr>
<td>Health</td>
<td>1/2 credit</td>
<td>Health 10</td>
</tr>
<tr>
<td>Remaining Course Credits</td>
<td>13.5 credits</td>
<td>Chosen Courses</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30 credits</strong></td>
<td></td>
</tr>
</tbody>
</table>
GRADE 9 COURSE OPTIONS

AGRICULTURE
2015 Animal Science Technology
2016 Companion Animal Science
2017 FFA/Youth Leadership
2019 Horse Science & Management
2020 CIS Landscaping
2022 PAY Plants, Animals, & You

ART
2502/2503 Art 1

BUSINESS & COMPUTER TECH
3026 Introduction to Business
3004 STEEP
3003 STEM: Game It Programming
3018 Comp Apps: Word/Publisher
3019 Comp Apps: Excel/Data Analysis
3020 Photoshop Edit & Design
3023 Computer Illustrate/Animation

DANCE
0123 Dance I: Basic Movement
0124 Dance I: Basic Choreography
0125 Dance II: Performance and Presentation

ENGLISH
3530 Stage Acting I
3531 Stage Acting II
3516/3517 Journalism I
3515 English Grammar and Usage

FACS
4002 Sew Creative
4004 Creative Foods

MUSIC
5017 Freshman Band
5018 Freshman Choir
5019 Freshman Orchestra
5026 Music in America

PHYSICAL EDUCATION
5506 9th Grade Strength & Conditioning

SOCIAL STUDIES
6505 Current Events 1
6509 Minnesota History

TECHNOLOGY
7001 Introduction to CAD
7003 Introduction to Metals
7004 Energy, Power & Transportation
7005 Electricity/Electronics
7007/7008 Technology Exploration
7013 Wood Technology
7014 CIS Woods II
7017 Automotive Engineering and Design
7019 Metal Fabrication
7022 Robotics

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

All **BOLD** courses have a prerequisite course that must be fulfilled.
ATHLETIC ELIGIBILITY COLLEGE-BOUND STUDENT ATHLETE
FOR DIVISION I OR II & NJCAA information

If you intend to participate in Division I or II athletics as a college freshman, you must register and be certified by the NCAA Initial Eligibility Center. The NCAA Eligibility Center is the agency that handles all eligibility for Division I and II athletics.

REGISTRATION PROCESS
Eligibility materials are available on the website [http://www.eligibilitycenter.org](http://www.eligibilitycenter.org). The Eligibility Center maintains and processes all of the initial-eligibility certifications. Complete the online form at the website listed above or call the NCAA publications hotline at 800-638-3731 for a free copy of the Guide for the College-Bound Student-Athlete which contains the registration forms and an Eligibility brochure. This guide can also be viewed online in the Student-Athlete Eligibility and recruiting section of the website or on the link below under Resources.

*If you are on Free/Reduced lunch please see your counselor for a fee waiver. You will need to bring your counselor your NCAA ID#.

CORE COURSE GUIDELINES/NCAA INITIAL-ELIGIBILITY CLEARINGHOUSE
Students inquiring about approved core courses should consult with the NCAA Eligibility Center website the BHS school code for all NCAA documents is 240345. Students should see their counselor if they have questions about anything related to the NCAA or athletic eligibility.

ATHLETIC ELIGIBILITY COLLEGE-BOUND STUDENT-ATHLETE
FOR TWO-YEAR COLLEGE ATHLETES

The NJCAA serves as the national governing body for two-year college athletics in the United States and is the nation's second-largest national intercollegiate sports organization (second to the NCAA). Each year nearly 60,000 student-athletes from 525 member colleges compete in 28 different sports. See more at [http://www.njcaa.org/](http://www.njcaa.org/)

MINIMAL 4-YEAR COLLEGE ADMISSION RECOMMENDATIONS

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

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

**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.

*For students seeking admission to the University of Minnesota system: Four years of math are required!* This must include two years of algebra, one of which must be at the intermediate or advanced level (Algebra 2 or above), and one year of geometry.
### CIS (College in the Schools) Courses

**Courses that are in BOLD have a prerequisite course. Check the course description for more info.**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>PARTNER</th>
<th>COLLEGE COURSE</th>
<th>CREDIT</th>
<th>ELIGIBILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CIS Animal Science</strong></td>
<td>U of MN Twin Cities</td>
<td>ANSC 1101</td>
<td>4</td>
<td>Sophomore Top 20% Juniors &amp; Seniors Top 50%</td>
</tr>
<tr>
<td><strong>CIS Writing &amp; Critical Reading</strong></td>
<td>U of MN Twin Cities</td>
<td>WRIT 1301</td>
<td>4</td>
<td>Seniors Top 20%</td>
</tr>
<tr>
<td><strong>eCIS Writing Studio</strong></td>
<td>U of MN Twin Cities</td>
<td>WRIT 1201</td>
<td>4</td>
<td>Juniors Top 20% Seniors Top 50% &amp; Pass Reading MCA</td>
</tr>
<tr>
<td><strong>CIS Intro to Literature</strong></td>
<td>U of MN Twin Cities</td>
<td>ENGL 1001W</td>
<td>4</td>
<td>Juniors &amp; Seniors Top 30%</td>
</tr>
<tr>
<td><strong>CIS French IV &amp; V</strong></td>
<td>U of MN Twin Cities</td>
<td>FREN 1003</td>
<td>5</td>
<td>Seniors Top 30% Top 50% Eligible for Consideration</td>
</tr>
<tr>
<td><strong>CIS German IV &amp; V</strong></td>
<td>U of MN Twin Cities</td>
<td>GER 1003</td>
<td>5</td>
<td>Seniors Top 30% Top 50% Eligible for Consideration</td>
</tr>
<tr>
<td><strong>CIS Spanish IV &amp; V</strong></td>
<td>U of MN Twin Cities</td>
<td>SPAN 1003</td>
<td>5</td>
<td>Seniors Top 30% Top 50% Eligible for Consideration</td>
</tr>
<tr>
<td><strong>CIS College &amp; Career Prep</strong></td>
<td>St. Cloud State University</td>
<td>COLL 111</td>
<td>2</td>
<td>Juniors &amp; Seniors Top 50%</td>
</tr>
<tr>
<td><strong>CIS Marketing</strong></td>
<td>St. Cloud State University</td>
<td>MKTG 100</td>
<td>3</td>
<td>Sophomore Top 10% Juniors Top 33% Seniors Top 50%</td>
</tr>
<tr>
<td><strong>CIS Algebra</strong></td>
<td>St. Cloud State University</td>
<td>MATH 112</td>
<td>3</td>
<td>Sophomore Top 10% Juniors Top 33% Seniors Top 50% Pass Placement Test</td>
</tr>
<tr>
<td><strong>CIS Exercise Physiology</strong></td>
<td>St. Cloud State University</td>
<td>PESS 122</td>
<td>1</td>
<td>Sophomore Top 10% Juniors Top 33% Seniors Top 50%</td>
</tr>
<tr>
<td><strong>CIS Intro to Economics</strong></td>
<td>St. Cloud State University</td>
<td>ECON 201</td>
<td>3</td>
<td>Juniors &amp; Seniors Top 33%</td>
</tr>
<tr>
<td><strong>CIS Human Anatomy</strong></td>
<td>St. Cloud State University</td>
<td>BIOL 103</td>
<td>3</td>
<td>Sophomore Top 10% Juniors Top 33% Seniors Top 50%</td>
</tr>
<tr>
<td><strong>CIS Woods III</strong></td>
<td>St. Cloud State University</td>
<td>ETS 130</td>
<td>3</td>
<td>2.5 GPA &amp; Meet State Testing Requirement for Grade Level</td>
</tr>
</tbody>
</table>
### Requirements for Southwest MN State University are as Follows:

- **Sophomores** Top 10% and 90th Percentile on Standardized Test
- **Juniors** Top 33% and 70th Percentile on Standardized Test
- **Seniors** Top 50% and 50th Percentile on Standardized Test

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Institution</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS Chemistry I</td>
<td>Southwestern MN State</td>
<td>CHEM 231</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CIS Chemistry II</td>
<td>Southwestern MN State</td>
<td>CHEM 232</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CIS Intro to Psych I</td>
<td>Southwestern MN State</td>
<td>PSYCH 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS Intro to Psych II</td>
<td>Southwestern MN State</td>
<td>PSYCH 102</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### North Hennepin Community College Courses are Open to ALL Students

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Institution</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS Public Speaking (11-12)</td>
<td>North Hennepin Community College</td>
<td>COMM 1010</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS Finite Math (10-12)</td>
<td>North Hennepin Community College</td>
<td>MATH 1140</td>
<td>3</td>
<td>B or higher in Alg. 2 or passing PreCalc</td>
</tr>
<tr>
<td>CIS Statistics (10-12)</td>
<td>North Hennepin Community College</td>
<td>MATH 1130</td>
<td>3</td>
<td>B or higher in Alg. 2</td>
</tr>
<tr>
<td>CIS Introduction to Sociology (11-12)</td>
<td>North Hennepin Community College</td>
<td>SOC 1110</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS US History (10)</td>
<td>North Hennepin Community College</td>
<td>HIST 1200</td>
<td>3</td>
<td>A in Am. Gov’t &amp; A in English 9</td>
</tr>
<tr>
<td>CIS US History (10)</td>
<td>North Hennepin Community College</td>
<td>HIST 1210</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS Introduction to Theater (11-12)</td>
<td>North Hennepin Community College</td>
<td>TFT 1210</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS College Academic Prep (10-12)</td>
<td>North Hennepin Community College</td>
<td>FYE 1020</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

### Hennepin Technical College Courses are Open to ALL Students

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Institution</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS Woods II (10-12)</td>
<td>Hennepin Technical College</td>
<td>CBTG 1100</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CIS Auto Service &amp; Maintenance (10-12)</td>
<td>Hennepin Technical College</td>
<td>ATEC 1050</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CIS Landscaping (9-12)</td>
<td>Hennepin Technical College</td>
<td>LNDC 1110</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CIS Landscaping (9-12)</td>
<td>Hennepin Technical College</td>
<td>LNDC 1235</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CIS Introduction to Early Childhood Ed. (10-12)</td>
<td>Hennepin Technical College</td>
<td>CDEV 1105</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS Child Growth and Development (10-12)</td>
<td>Hennepin Technical College</td>
<td>CDEV 1500</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS Research &amp; Development (10-12)</td>
<td>Hennepin Technical College</td>
<td>ENGC 2075</td>
<td>3</td>
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</tr>
<tr>
<td>CIS 3D Mechanical Drawing (10-12)</td>
<td>Hennepin Technical College</td>
<td>ENGC 2100</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CIS Entrepreneurship (11-12)</td>
<td>Hennepin Technical College</td>
<td>BUSN 1510</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS Accounting II (10-12)</td>
<td>Hennepin Technical College</td>
<td>ACCT 1000</td>
<td>3</td>
<td>C or higher in Accounting I</td>
</tr>
</tbody>
</table>
Transcript request for CIS class

All requests are done online w/fee
Search “official transcript
U of MN www.onestop.umn.edu
SCSU www.stcloudstate.edu
Southwest State www.smsu.edu
North Hennepin Community College www.nhcc.edu
Hennepin Technical College www.hennepintech.edu

ADVANCED PLACEMENT (AP) COURSES
AP Calculus A/B
AP Calculus B/C
AP Music Theory
Advanced Biology & Biotechnology = AP Biology

POST SECONDARY ENROLLMENT OPTIONS ACT
Public school 10th, 11th and 12th grade students may be eligible to participate in this program. The purpose of the program is to promote rigorous educational pursuits, and provide a wider variety of options to high school students by enabling 10th, 11th and 12th graders to enroll full-time or part-time, without cost to them, in a non-sectarian course or program in any eligible Minnesota post-secondary institution. See your counselor for more information.
Agriculture

Agriculture courses at BHS include a wide variety of topic areas including: pets, livestock, landscaping, equine, 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.

2022 PAY Plants, Animals & You
The exploding world of agriculture is examined in this introductory class. “Learning by Doing” activities will provide exposure to various areas of agriculture. Areas to be covered include careers, FFA, SAE’s, plant science, horticulture, animal science, outdoor recreation, and natural resources. A special focus of this class is your importance and personal involvement in America’s #1 industry.

Grades: 9-10  Terms: 1

2023 Veterinary Science
Veterinary Science is an advanced animal science class. 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, Companion Animal Science and General Biology

Grades: 10-12  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. Time will also be spent studying alternative animals such as bees, llamas, and others. 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 CIS Landscaping
This course is designed to introduce students to the diverse field of plants and landscaping. Students will spend ½ the class period 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. Upon successful completion of the course, students who are eligible for
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. Upon successful completion of the course, students who are eligible for college credit will earn 4 credits from the University of Minnesota. See the CIS table on page 7 for eligibility criteria.
Prerequisite: Animal Science, biology, top 50% of class (if taken for U of MN credit)
Grades: 10-12  Terms: 2

2021  Natural Resources & 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
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 draw from real life and photographs. Various artists are studied for inspiration.  
**Prerequisite:** Art 1A & B

_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 an acrylic stylized animal painting, a cubist style still life, and a non-objective watercolor composition. Artists and their design styles will be used as inspiration for each project. 
**Prerequisite:** Art 1A & B

_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.
**Prerequisite:** Art 1A & B and Drawing I

_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 a variety of media and subject matter. Students will create an expressive self portrait, human figure composition, and a non-object composition. 
**Prerequisite:** Art 1A & B and Painting I

_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 including throwing on the pottery wheel.
**Prerequisite:** Art 1 A & B
**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 A & B and Ceramics & Sculpture I
**Grades:** 10-12  **Terms:** 2

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 1A & B & Ceramics & Sculpture I & II
**Grades:** 11-12  **Terms:** 1

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 A & B & Ceramics I
**Grades:** 10-12  **Terms:** 1

2501  Animation/Hybrid
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. Students will be able to leave during this block.
**Prerequisite:** Art 1A & B
**Grades:** 11-12  **Terms:** 1
Many people operate under the erroneous assumption that business education is only for students who expect to graduate and pursue a career in business. The information contained within the business education curriculum is not only valuable for all students in today's world, but also is critical for the success of our country. All students need to have a general understanding of how the American economy operates and the role business plays in the economic well being of this country. Not to mention, the absolute necessity for students to be able to understand and utilize technology in their personal and professional lives.

### Business Content Courses

**3012 Accounting I**

Money is the name of the game. We will work with a sample service business to discover how a business runs and makes a profit. If you can understand T accounts, debit and credit transactions, a balance sheet, income statement, and statement of cash flows, that will help you later in life when analyzing financial decisions. If you want to learn how to make money, be an entrepreneur, or if you are interested in a business degree after high school, this course is vital. Accounting courses are a must for every student.

Grades: 10-12  
Terms: 1

**3037 Accounting I - Hybrid**

Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from Hennepin Technical College. See the CIS table on page 8 for eligibility criteria.

*Students should not register for this course if they have successfully completed Accounting II.*

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

Grades: 10-12  
Terms: 1

**3013 CIS 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 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.

Control your finances. Don’t let your finances control you. Learn how to finance a car loan, get an apartment, and save for a house. Let’s not forget we need to understand taxes from work and how to use saving tools to grow our money. We will look at other life changes such as getting married, having children, and retirement. How will you pay for all this and college?

Grades: 10-12  
Terms: 1

**3008 Personal Financial Management**

Control your finances. Don’t let your finances control you. Learn how to finance a car loan, get an apartment, and save for a house. Let’s not forget we need to understand taxes from work and how to use saving tools to grow our money. We will look at other life changes such as getting married, having children, and retirement. How will you pay for all this and college?

Grades: 10-12  
Terms: 1

**3017 CIS College and Career Prep**

**3038 College & Career Prep**

**3033 College and Career Prep Hybrid**
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 resume. 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. Students also participate in a job shadow and mock interview. This course is designed for juniors and seniors who plan to enter the workforce after school or attend a post secondary educational institute. Upon successful completion of the course, students who are eligible for college credit will earn 2 credits from St. Cloud State University. See the CIS table on page 7 for eligibility criteria.

Grades: 11 or 12 Terms: 1

3007 Work Preparation Program
Are you ready for the workplace? Work on the “must have” skills and qualities employers look for. Work on communication skills and other soft skills. Prepare for the workplace whether it’s immediately after high school or after post-secondary. We will fine tune resumes and create a personal brand by utilizing web tools used during hiring. Students will participate in a book read for “7 Habits of Highly Effective People” and are required to participate in a mock interview as well as set up and complete a 20 hour mentorship in a field of interest which may be completed during our scheduled class time.

Recommended: College & Career Prep or Senior Strategies
Grade: 12 Terms: 1 (4th term)

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.

Grades: 9-10 Terms: 1

3028 CIS Entrepreneurship
Do you want to own your own successful business and be your own boss someday? If so, CIS Entrepreneurship is for you. This is a college-level course designed to provide you with a fundamental understanding of those basic concepts and procedures required to start your own business. This course will provide a sound base to the understanding of entrepreneurial activity and possibilities. Students will learn the process and skills needed for creating and developing a business venture. The course will explore the skills and characteristics of successful entrepreneurs; and cover key areas of new venture development including opportunity identification, feasibility analysis, business model design, business plan development, and execution strategy. In addition to learning the process, students will have the opportunity to apply the concepts by developing an idea for a new venture and creating a business plan.

Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from Hennepin Technical College. See the CIS table on page 8 for eligibility criteria.

Prerequisite: Introduction to Business
Grade: 11-12 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.

Grades: 10-12 Terms: 1

3011 CIS Marketing
This is an exciting, fast-paced course designed to introduce students to the many and varied facets of the business world. Real world examples, up-to-date videos, computer activities on the internet, guest speakers, and lectures may be used to further the student’s involvement in and understanding of the
business arena. Topic areas will include: business structure and environment, international and cultural considerations and influences, the major activities, and functional areas of business. In addition, students will have the opportunity to explore career opportunities in the world of business. Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from St. Cloud State University. See the CIS table on page 7 for eligibility criteria.

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.

3004 STEEP (Student Transition to Educational & Employment Portfolio)
This freshman course is designed to help students envision a future that is productive, achievable, and stimulating. It covers keys to succeeding in high school and beyond. This course offers students time to explore their interests and aptitudes. Instruction will include study skills, organization strategies, goal setting, and time management techniques to have a smooth transition into high school and to prepare for the next transition to postsecondary and workplace. Students will explore the culture of high school focusing on the traditions, activities, and services available and develop a high school plan, and explore post-secondary educational and career options.

Computer Science, Graphics, and IT Courses

3003 STEM: Game It Programming
This course is an intro level programming course using game design. Students will build real working games while learning and applying math and physics concepts used in game development, how the engineering cycle is used to design games, the components of a good game, color theory used in game design, how to create sprites and animation, and so much more. Games we may make include Ping Pong, Break Thru, Pinball, PacMan and Space Battle among others.

3018 Computer Applications: Word, Publisher, and Presentation Tools
Middle school computer usage is NOT the same as high school. Teachers in Phy Ed, Science, Social Studies, World Languages, etc. will expect you to be able to run programs quickly and efficiently for their classes. They will want you to make brochures and newsletter in desktop publishing software, such as Publisher, as well as produce 5-15 page essays quickly. This course will build on to the introduction you got in middle school and prepare you for the level high school teachers expect. We touch on programs such as PowerPoint and Word also with more advanced skills like doing justifications, indentations, text wrapping, tables, and tabs to name a few. We also explore over 30 Web 2.0 tools and work on increasing keyboarding speed and accuracy.

3019 Computer Applications: Excel & Data Analysis
Learn skills that are in high demand in the job market. Students will learn to manage and analyze data using Excel. Students who plan to major in business, accounting, engineering, and science will find Excel helpful in college. This course covers the creation and use of spreadsheets to make business decisions. Topics include spreadsheet formulas and functions, formatting, ranges, charts, and spreadsheet decision tools. Students will also be introduced to databases.
3016  Computer Applications II  
3031  Computer Applications II - Online  
**Computer Applications II** provides advanced study in Microsoft Office Professional Suite: Excel, Access, Publisher, PowerPoint, and Word, as well as Microsoft’s Online Services such as Office 365, OneNote, Sway and Sky Drive.  
**Computer Applications II Online** covers the same content as Computer Applications II, but through an online environment. Students will meet the first week and last week of the term in the classroom. The remainder of the time students will be required to complete curriculum outside of the classroom. This course covers Microsoft Office Professional suite. Students who register for this course must have access to a computer with Internet and this software outside of school.  
**Prerequisite:** Computer Applications: Excel & Data Analysis  
   Grades: 10-12  
   Terms: 1  

3020 Photoshop Editing & Design  
Use Photoshop to put yourself into a different picture. Learn how photo editors work on models to make them look flawless. Put your skills to the test when creating projects like your own graduation announcement, a magazine cover, and your favorite movies’ DVD cover.  
   Grades: 9-12  
   Terms: 1  

3023 Illustrations & Animations  
Ever watched Rick & Morty or Simpsons or Bob’s burgers and wondered how they draw and animate the characters? This course will allow you to explore how to draw characters and animate them or create flash ads for the web using Adobe Illustrator and Flash. Students will also get an introduction to designing a web page using Dreamweaver to hold their new creations.  
   Grades: 9-12  
   Terms: 1  

3010 Computer Graphics II  
Students will use drawing tablets to advance their skills in either Photoshop or Illustrator/Flash through a variety of tutorials and projects.  
**Prerequisite:** Either Photoshop Editing & Design OR Computer Illustrations & Animations  
   Grades: 10-12  
   Terms: 1  

3021  Web 1 - Introduction  
Want to do more than make a Google site? Web 1 is an introduction to the design, creation, and maintenance of web pages. Students will critically evaluate websites and learn how to create dynamic pages and sites. This course includes a Photoshop unit as well for adding those special features. Learn the fundamentals of editing images, of the HTML tagging language, and of graphic editing software.  
**Prerequisite:** Photoshop Editing & Design  
**Recommended:** Computer Applications: Word, Publisher & Presentations tools  
   Grades: 10-12  
   Terms: 1  

3022  Web 2 - Multimedia  
Want your own .COM? Come use Flash, Photoshop, and Dreamweaver to express your creative self. Throughout the course students utilize their planning and designing skills from Web 1 and build on with multimedia to enhance layout, navigation and interactivity. Students will delve more into HTML and will also work with CSS code to produce multi-page websites.  
**Prerequisite:** Web 1 with “C” or better  
   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
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.

Grade: 9  Terms: 2

3504/3505 English 10
This course is the study of effective writing and the study of 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

Grade: 10  Terms: 2

3530 Stage Acting I
Students are introduced to the fundamental skills of stage performance including basic improvisational acting, physical theater/movement, voice, character and story development, and group collaboration. Basic theater history, literature, and techniques will be explored and students will research a MN theater company. Performances for the class will include group physical theater, devised storytelling, weekly performance exercises, and a devised children’s theater piece that will be performed for students outside the class.

Grades: 9-12  Terms: 1

3531 Stage Acting II
Students further develop the skills of improvisational acting, physical theater/movement, voice production, character development, and storytelling. 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

3529 Speech Communications
This course introduces students to three different areas of speech communications: interpersonal communication, small group communication, and public speaking. In addition to receiving an introduction to speaking in front of groups, the course will include effective one-on-one communication and effective communication in groups, skills which will be applied to social as well as professional goals. This class presumes a willingness to speak publicly and with all members of the class individually and in groups.

Grades: 10-12  Terms: 1
3516/3517 Journalism I  
*All Standards*  
*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  
*All Standards*

Journalism II is designed to be an extension of the Journalism I and Publications Writing programs. 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  
*Literature, Informational, Language Standards*  
*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  
*Writing/Language/Speaking/Viewing Standards*

English Grammar and Usage is a rigorous examination of the underlying structures and guiding principles of language and writing. Students are required to demonstrate proficiency through leveled daily assignments and thematic weekly writing labs which culminate in a final portfolio. Student baseline skills are assessed: subsequent coursework, addresses skill deficiencies and usage issues which prohibit or mar effective writing. Course content includes, but is not limited to: sentence formulas, phrase and clause, identification, recognition and use of modifiers, root-word based vocabulary and punctuation control.

**Grades:** 9-12  
**Terms:** 1

3524/3525/3526 Publications Writing(Yearbook)  
*All Standards*

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 I  
*Informational, Writing, Speaking/View Standards*

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 II  SpeakingViewing Standard
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, documentaries, and advertising. Reading, writing, critical thinking, unit projects, research skills exams, and discussion are all significant parts of this course.
Prerequisite: Mass Media A
Grades: 11-12   Terms: 1

3522/3523  Classic Novel  All Standards   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: 1

3510  Short Stories Seminar  Literature 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  All Standards   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

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  All Standards   NCAA approved

20
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 CIS Writing and Critical Reading  All Standards  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. **Do not register for this class if you have successfully completed College Prep Writing. Upon successful completion of the course, students who are eligible for college credit will earn 4 credits from University of Minnesota Twin Cities. See the CIS table on page 7 for eligibility criteria.**

**Grade: 12  Terms: 2**

**3543/3544 CIS Introduction to Literature  Literature/Writing Standards  NCAA approved**

Introduction to Literature is a course primarily focused on 20th 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. **Upon successful completion of the course, students who are eligible for college credit will earn 4 credits from University of Minnesota Twin Cities. See the CIS table on page 7 for eligibility criteria.**

**Grades: 11-12  Terms: 2**

**3550/3551 eCIS Writing Studio  All Standards  NCAA approved**

This course will introduce you to basic writing strategies you will need for college-level courses. You will practice your writing frequently and get regular feedback from the instructor. The class meets in a computer lab, which means you will have the opportunity to write, both in class and outside of class; during class, we will emphasize active learning (discussing readings, writing during class, reading and responding to other students’ writing, and other activities designed to help you think critically about your writing).

The reading and writing in this class will focus on the topic of education. In our work, you will have opportunities to reflect on your personal experiences in education, the experiences of others, and the ideas that experts offer as they critique American education and make recommendations for changing it. By the end of the semester, you will have written papers which describe your personal experience, analyze the experiences of others, critique ideas in readings, argue for or against recommendations found in articles, and done library research on a topic related to education. All of this should give you a good foundation for college-level writing. **This is a good follow-up class for the AVID Senior Elective. Do not sign up for this class if you have completed OR plan to take College Prep Writing or CIS Writing. Upon successful completion of the course, students who are eligible for college credit will earn 4 credits from the University of Minnesota Twin Cities. See the CIS table on page 7 for eligibility criteria.**

**Grades: 11-12  Terms: 2  TEACHER RECOMMENDATION**

21
3534  Stage Acting and Playwriting  

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 I  

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

3540  Creative Writing II  

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

3560/3561  Integrated English 10  &  6535/6536  Integrated American History 10  

This course will coordinate the English 10 Language Arts curriculum with the American History 10 curriculum in a more inter-disciplinary approach to enhance learning opportunities and retention in both subject areas. This format allows the instructors to plan together and support each other’s curriculum and instruction. It will also allow students to use reading, writing, and discussion techniques learned in the English classroom and transfer that knowledge and experience to the Social Studies classroom. Our goal is to make students’ learning more relevant and connected throughout the semester.  

Grade: 10  
Terms: 2

3564/3565  CIS Public Speaking  

This course provides instruction and practical experience in the basics of public speaking. It will include the theory and practice of creating and presenting public speeches; research techniques; strategies in organization, outlining, and argumentation; audience analysis and adaption; and the evaluation of other public speakers. Students will be expected to create and deliver at least four major speeches during the course, including information and argumentative speech types. Other types of oral presentations may also be included. **Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from North Hennepin Community College. See the CIS table on page 8 for eligibility criteria.**  

Grades: 11-12  
Terms: 2

3566/3567  CIS Introduction to Theatre  

This course will involve students in a play’s production while they explore the roots of theatre as a reflection of culture and community. Students investigate major theatrical historical periods and
personalities, analyze dramatic literature for meaning and production considerations, and may create and perform their own scenes as a means of understanding the transformation of theater from page to stage. Students will examine the production unit: playwright, director, designers, and actors in both preparation for and performance of a theatrical production. Each student will create a production portfolio for a full-length play. Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from North Hennepin Community College. See the CIS table on page 8 for eligibility criteria.

Grades: 11-12 Terms: 2

Family and Consumer Sciences (FACS)  
...An Amazing Adventure
FACS courses help individuals and families meet the challenges of every-day living. Because of the complexity of living in a changing society and the challenge of coping with resulting problems, tomorrow’s adults urgently need skills and knowledge required of responsible individuals, family members, and productive workers. Knowledge of food and nutrition, family living and parenthood education, consumer and education management of resources, decision making, and interpersonal relationships is essential for quality family life.

3008 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 and follow a personal budget  
*Grow your money through compounding interest
*Rent an apartment   
*Get and use credit wisely
*Buy a car   
*Purchase a home
*File a tax return   
*Plan the future you want
Also, learn about insurance, banking services, payroll deductions, careers, how personal values impact financial decisions, and how money issues affect relationships and families.
Articulated college credit is available through St. Cloud Technical College when you earn a B or above.

Grades: 10-12 Terms: 1

<table>
<thead>
<tr>
<th>Career pathways:</th>
<th>Banking/Related Services</th>
<th>Financial &amp; Investment Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer Services</td>
<td>Insurance Services</td>
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</table>

4001 CIS Child Growth and Development
Do you work with children? Have nieces and nephews? Planning a career that associates with families and children? Learn about major developmental milestones from birth through adolescence in the areas of physical, emotional, social, intellectual and moral development of infants, toddlers, preschool, and school-age children. Experience the responsibility of parenting when you take home a computerized infant simulator. The class will combine classroom and on-line learning. Students must have a computer and internet access outside of class time. Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from Hennepin Technical College. See the CIS table on page 8 for eligibility criteria.

Grades: 10-12 Terms: 1

<table>
<thead>
<tr>
<th>Career pathways:</th>
<th>Early Childhood Development &amp; Services</th>
<th>Teacher/Training</th>
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</thead>
<tbody>
<tr>
<td>Family &amp; Community Services</td>
<td>Pediatrics Registered Nurse/MD</td>
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<tr>
<td>Pre-Medicine</td>
<td>Child Psychology</td>
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<tr>
<td>Juvenile Justice</td>
<td>Pediatric Nutrition</td>
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</table>

4014 CIS Introduction to Early Childhood NEW!
Thinking about a career working with children? You’ll be able to observe firsthand and compare different types of early childhood programs. Learn about the role and responsibilities of those who serve children and families in professional settings. What techniques work well for communicating with families and involving parents? What teaching practices support diversity? Explore the early childhood profession and search career opportunities where you can impact children and families. This course is designed by Hennepin Technical College faculty and taught by BHS teachers. Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from Hennepin Technical College. See the CIS table on page 8 for eligibility criteria.

<table>
<thead>
<tr>
<th>Grade: 10 - 12</th>
<th>Terms: 1</th>
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<tr>
<th>Career pathways:</th>
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<tbody>
<tr>
<td></td>
<td>Family Care Provider</td>
<td>Nanny</td>
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<td>Child Care Center Owner/Director</td>
<td>Camp Director</td>
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<td>Educational Assistant</td>
<td>Child Psychologist</td>
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<td>Coordinator</td>
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<td>Paraprofessional</td>
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4013 Senior Strategies

The responsibilities of living on your own for college or working full-time can be scary. Senior Strategies prepares 12th graders for “the real world”. Topics include: cooking simple healthy meals; finding a place to live and signing a lease; budgeting, saving for college, and reaching financial goals; dealing with roommate issues; designing your living space in a dorm or apartment; organizing important documents; time and stress management strategies; and taking care of your clothes. Start out on the right path to independence and you will face college life and beyond with confidence!

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<thead>
<tr>
<th>Grade: 12</th>
<th>Terms: 1</th>
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<tr>
<th>Career pathways:</th>
<th>All</th>
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4004 Creative Foods (Level 1)

If you enjoy cooking and eating, this class is for you. Learn basic cooking methods using nutritional ingredients in homemade cliff bars, pasta, stir fry, and omelets. Get a taste of baking basics and enjoy cookies, banana bars, apple muffins, and baked pancakes with sautéed apples. Explore a variety of vegetables that maybe you’ve never heard of. Be a savvy consumer when you understand the nutrition facts label to compare food products. Use the computer to analyze your food eating habits. You’ll enjoy the variety of experiences in this beginning level foods class.

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<thead>
<tr>
<th>Grades: 9-12</th>
<th>Terms: 1</th>
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<tr>
<th>Career Pathways:</th>
<th>Restaurants &amp; Food/Beverage Services</th>
<th>Food Science</th>
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<tbody>
<tr>
<td></td>
<td>Food Products &amp; Processing Systems</td>
<td>Health Science</td>
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<td></td>
<td>Consumer Services</td>
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4005 Gourmet Foods (Level 2)

This course is designed for students interested in continuing to learn food preparation methods and techniques. Continue developing your cooking and baking skills through a variety of regional favorites including soups, meats, poultry, cake decorating and pies. Class includes a study of healthy eating.

**Prerequisite:** Creative Foods recommended

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4011/4012 Hospitality Foods (Level 3)
Do you have a passion for food? Learn the art and science of cooking and baking when you prepare sandwiches, appetizers, specialty breads, pastries, fondant-decorated cakes, and specialty desserts. Through a food project competition you will identify food trends and create an original recipe. When you complete this course, you will have completed the hospitality industry approved Serv-Safe Food Safety Certification program and can take the exam in class. When you pass the college exam you can earn articulated college credit through St. Cloud Technical College.

**Prerequisites:** Creative Foods or Gourmet Foods

*Grades: 11-12  Terms: 2 (must register for both terms)*

<table>
<thead>
<tr>
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### 4002 Sew Creative

Did you know that when you sew you are actually developing engineering skills? Use basic sewing skills to create current clothing fashions, bags, and accessories. Personalize your project using the computerized Embroidery Sewing Machine and Embellisher. Use a Serger to professionally finish seams. Students should be creative, patient and have an eye for detail. **Project materials are provided by the student.**

*Grades: 9-12  Terms: 1*

<table>
<thead>
<tr>
<th>Career Pathways</th>
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</thead>
<tbody>
<tr>
<td>Consumer Services</td>
<td>Apparel Technologies</td>
</tr>
<tr>
<td></td>
<td>Fashion Design</td>
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## General Courses

### 3562 Senior Inquiry

This course is designed for seniors to design and control their own learning by providing them all opportunity to fully explore topics of their own choosing. Students will select their personal research projects and present their learning to their peers. In addition, they will also be responsible for collaborate research and seminar discussions focused on complex issues, such as educational reform, the power of happiness, and the future of technology (as examples).

**TEACHER APPROVAL**

*Grades: 12  Terms: 1*

### 6541 CIS College Academic Prep

Learn to succeed in college while earning college credit. College level courses are rigorous and require more study strategies to succeed. This NHCC Concurrent Enrollment course will teach students study skills such as note taking, reading strategies, class discussion strategies, and writing skills to handle college level rigor and expectations. Students will also develop advocacy skills, collaboration skills, and time-management skills necessary to be successful in college and the workplace. One college visit to North Hennepin Community College will allow students to see these strategies in action and experience college academic support options. **Upon successful completion of the course, students who are eligible for college credit will earn 2 credit from North Hennepin Community College. See the CIS table on page 8 for eligibility criteria.**

*Grades: 10-12  Terms: 1*
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
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.

  Grade: 10  Terms: 1

OR

5519/5520 Integrated 10th Health-PE
This is a two term course that will link the concepts from 10th Grade Health and 10th Grade PE. Individual fitness and team fitness will be introduced and applied with the physical, mental, social and emotional well being of students in mind. The class will focus on overall wellness and how nutrition, responsible choices, and disease are affected by activity and lifestyle choices. Students will have an opportunity to become CPR certified upon successful completion of the CPR unit. Heart Rate Monitors, resistance exercises and cardiovascular training will be used to assess fitness levels. Options to participate in team sport and/or individual sport with skill acquisition and improvement will take place throughout the two quarters. This course covers graduation requirements for 10th Grade Health and 10th Grade PE.

  Grade: 10  Terms: 2

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

4535/4536 Algebra 1.5
Intermediate Algebra is designed for students who wish to deepen and extend the concepts of Algebra. Topics from Algebra 2 and Geometry will be introduced.

  Grades: 9-10  Terms: 2  TEACHER RECOMMENDATION

4517/4518 Geometry
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 1.5
  Grades: 9-12  Terms: 2  TEACHER RECOMMENDATION

NCAA approved
4519/4520  Algebra 2
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 1.5
Grades:  9-12  Terms:  2

4533/4534  Pre-Calculus
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.  
Do not register for this course if you have successfully completed or plan to take CIS College Algebra.
Prerequisites:  Algebra 2
Grades:  10-12  Terms:  2

4510/4511  CIS College Algebra
This course is for students who have successfully completed Algebra 2 and want college credit for pre-calculus math. Topics include: graphs and functions; polynomial, radical, rational, exponential, logarithmic functions; equations, inequalities, systems of equations and inequalities; applications.
Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from St. Cloud State University. See the CIS table on page 7 for eligibility criteria.
Prerequisite:  Algebra 2
Grades:  11-12  Terms:  2

4521  Trigonometry
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:  Algebra 2
Recommended: B or above in Algebra 2 
Grades:  10-12  Terms:  1

4524/4525/4526  Advanced Placement (AP) Calculus A/B
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 or College Algebra before registering for this course.
Prerequisites:  Pre-Calculus or CIS College Algebra, Trigonometry
Grades:  10-12  Terms:  3

4512/4513  Advanced Placement (AP) Calculus B/C
This is a continuation of AP Calculus AB beginning with a brief review of volumes of revolutions and area between curves, are length and surface areas of revolutions. Integration techniques, L’Hospital’s Rule and improper integrals followed by a thorough study of series, including the Taylor and Maclaurin series with the different tests for convergence will be investigated. Slope fields, parametric equations, polar coordinates, vectors and vector-valued functions will also be studied.
Prerequisites:  AP Calculus A/B
4531  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.
   Grade:  12 or teacher approval       Terms:  1

4530  Statistics
This course will focus on statistics concepts such as collecting, organizing, and analyzing data. It will also introduce probability and statistical inference. Students will be participating in activities and projects involving surveys and experimental design. We will also explore many real world applications of statistics including the US Census Bureau and opinion polls.
   Grades:  11-12       Terms:  1

4541/4542 CIS Statistics
This is a concurrent enrollment course through NHCC. It is a college statistics course that has replaced 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. Not only is this course useful to students pursuing studies in math, science and engineering, but also in the health fields and social sciences, including economics, business and psychology. Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from North Hennepin Community College. See the CIS table on page 8 for eligibility criteria.
Prerequisite: Algebra 2
Recommended: B or above in Algebra 2
   Grades:  10-12       Terms:  2

4539/4540 CIS Finite Math
This course is designed primarily for the non-science major. Several business and financial applications are covered. These applications may include systems of equations, linear programming (maximizing profit, and minimizing cost), the interdependence of different sectors in an economy, and interest rates as they pertain to credit cards, short-term loans, and mortgages. Additional topics may include: introductory statistics and probability, combinatorics (the number of ways of arranging objects), game theory, coding, and Markov chains (multi-step games/decisions). Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from North Hennepin Community College.
See the CIS table on page 8 for eligibility criteria.
Prerequisites: Algebra 2 or Pre-Calculus
Recommended: B or above in Algebra 2 or passing grade in Pre-Calculus
   Grades:  10-12       Terms:  2
Music & Dance

The music and dance program at BHS is designed to promote the serious study of many different styles of music and movement to all interested students. The objectives are to study and/or perform the finest music and dance 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, orchestras 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.

    Grade: 9  Term: 4 (Alternate Days with PE 9)

5027/5028/5029/5030 Varsity Band
All 10th 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

5019 Freshman Orchestra
All 9th grade orchestra students will register for Freshman Orchestra. There will be two orchestras of equal instrumentation who study the same curriculum and perform the same music together as one ensemble at concerts. Each group will meet every other day all year, alternating with PE 9 or Freshman Choir. Students in Freshman Orchestra will study and perform a wide variety of orchestral literature. In addition to practice and performance, this course includes an overview study of music history and theory.

    Grade: 9 Terms: 4 (Alternates days with PE 9)

5056/5057/5058/5059 Varsity Orchestra
All 9th grade orchestra students, and those in grades 10-12 who are not in Concert Orchestra will be in Varsity Orchestra. This group will meet every day all year. Students in this group will study and perform a wide variety of orchestral literature. In addition to practice and performance, this course includes an overview study of music history and theory.

    Prerequisite: Teacher Approval
    Grade: 10 - 12 Terms: 4
5013/5014/5015/5016  Concert Orchestra
Students in grades 10-12 are eligible for Concert Orchestra by audition only. This group will meet every
day all year. Students in this group 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: Audition
  Grades: 11-12    Terms: 4

5018  Freshman Choir
The Freshman Choir is a large group choral ensemble designed for 9th grade students. Students will meet
for a full block for a full year, alternating days with PE 9 or with Freshman 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.
  Grade: 9    Terms: 4 (Alternate Days with PE 9)

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 2& 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 History of
Classical Music class 1st term. 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 The History of Classical Music
This course will focus on listening to and studying classical music from the Medieval through the 20th
Century periods. This course is designed to be taken during 1st term so that students in AP Theory may
take both courses.
  Grades: 11-12    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

0123 Dance I: Basic Movement
The focus of this class is learning the basic movement skills used in western concert dance. The skills will be drawn from a variety of disciplines including modern, jazz, and ballet. A multi-level approach is used to accommodate a variety of skill levels.
Grades: 9-12 Terms: 1

0124 Dance I: Basic Choreography
This class is focused on artistic principles used to create dances. Students will learn about the lives and styles of well-known choreographers both past and current and apply this knowledge to develop their own style. Students will create dances as solos, duets and small groups. Students will have the opportunity for in-house performances.
Grades: 9-12 Terms: 1

0125 Dance II: Performance & Presentation
This class assumes good movement skills and requires either both Dance 1 classes or 4 years of dance training at a recognized studio. The students will spend the term creating and producing dances for a concert at the end of the term. Students will work in groups and alone and with the teacher and guest artists to create their works.
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.
5502/5503 Physical Education 9
5036 PE 9 (Band, Orchestra & Choir students)
9th 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.

Grade: 9  Terms: 2

**CHOSE 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.

**OR**

5517 PE 10 Fitness Online
This course is an online course with 4-6 face to face meetings throughout the quarter. Students will have an individual face to face meeting with the instructor once a week. The PE10 curriculum will be administered through a Google site and e-mail communication with the instructor. The student’s fitness level will be measured during a pre and post fitness assessment. Each individual will use a Heart Rate monitor to assess and record resistance and cardiovascular workouts completed off campus. Some topics covered will be nutrition, personal fitness habits, chronic disease prevention, basic physiology and others.

**OR**

5519/5520 Integrated 10th Health-PE
This is a two term course that will link the concepts from 10th Grade Health and 10th Grade PE. Individual fitness and team fitness will be introduced and applied with the physical, mental, social and emotional well being of students in mind. The class will focus on overall wellness and how nutrition, responsible choices, and disease are affected by activity and lifestyle choices. Students will have an opportunity to become CPR certified upon successful completion of the CPR unit. Heart Rate Monitors, resistance exercises and cardiovascular training will be used to assess fitness levels. Options to participate in team sport and/or individual sport with skill acquisition and improvement will take place throughout the two quarters. This course covers graduation requirements for 10th Grade Health and 10th Grade PE.

Grade: 10  Terms: 2
5506  9th 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.
   Grade: 9     Terms: 1

5507  10th 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 9th grade PE
   Grade: 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

5508  Aerobics and Body Toning I
This class is designed for students who wish to improve/maintain their physical fitness through a regular exercise schedule with routines in step aerobics, taebo, 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. For an end of the term project students will design and lead a rhythmic workout which will keep themselves and their classmates moving in the target heart zone.
   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  **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 and complete original student led research. 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. Upon successful completion of the course, students who are eligible for college credit will earn 1 credit from St. Cloud State University. See the CIS table on page 7 for eligibility criteria.
**Grades:** 10-12  **Terms:** 1

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**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. 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.

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 their 9th grade year should speak with their counselor about this opportunity.

6060/6061  **Science 9**  
NCAA approved
Science 9 is a two-term physical/earth science course in which students are introduced to basic concepts in physics, chemistry and earth science. This course provides hands-on activities in the laboratory and opportunities for problem solving. Topics covered in this course include: science skills, motion, force and energy; matter, energy and earth; matter and its changes; electricity and magnetism; earth’s structure; and waves. This course is a fundamental class that is required before taking other courses of study in science.
**Grade:** 9  **Terms:** 2
6010/6011 General Biology  
This is a required 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, 9th 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 knowledgeable, thoughtfully and critically about observations, data and scientific discoveries and theories.  
Prerequisites: Science 9 or General Chemistry  
Grades: 10-12  Terms: 2

6018/6019 CIS Human Anatomy  
This course covers the chemistry of life, the structure and physiology of cells and tissues, body organizations and homestasis. The skeletal, muscular, and digestive systems are investigated along with issues such as anorexia. The sensory systems of sight and hearing, the endocrine systems as well as the respiratory system and issues related to smoking will be covered. The second term of Human Anatomy will be a continuation of the information presented during the first term. In this portion of the 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 discussed on a weekly basis in this course. Throughout the term, a variety of guest speakers representing multiple medical fields will present information from their field of expertise. Upon successful completion of the course, student who are eligible for college credit will earn 3 credits from St. Cloud State University. See the CIS table on page 7 for eligibility criteria. 
Grades: 10-12  Terms: 2

6022 Wildlife Biology  
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

2021 Natural Resources  
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

6007 Astronomy  
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
This course will discuss meteorological 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. Occasional readings from a college level textbook is required along with small and large group discussion that will focus on current events and trends that affect the changes and reporting of weather.
Grades:  10-12   Terms:  1

6027 Basic Physics
This course will introduce topics of the workings of the natural world. We will study motion as it relates to everyday life, music from a wave perspective, visual changes to light and common electricity concerns. This course will meet the Minnesota state standards for physics.
Prerequisites: Geometry
Grades:   11-12            Terms:  1

6020/6021 Physics
This course is recommended for all students that are college bound. Physics is the study of matter that is in motion. We will explore the forces that are involved in moving that matter and the energy that is associated with it. Hands-on activities will utilize Hot Wheels, roller coasters and various sports equipment. A field trip to an amusement park is all included for real-world application. This course meets the Minnesota state standards for physics.
Prerequisites: Algebra 2 & Trigonometry recommended
Grades: 11-12  Terms: 2

6026 Advanced Topics in Physics
This course is an extension of Physics. Content will be rotational dynamics, electromagnetic forces, modern physics as well as any other topics that are of an interest to the students. Students will be prepared to take the AP Physics test and they will have time exploring career options as well. Grading for this course is standards based and will be a Pass or No Pass in the grade book.
Prerequisites: Physics and Calculus
Grades: 11-12  Terms: 1

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. This course will meet the Minnesota state standards for chemistry.
Grades: 10-12  Terms: 1

6073/6074 General Chemistry
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: Science 9
Grades:  10-12   Terms:  2
6014/6015 CIS Chemistry I  
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. **Upon successful completion of the course, students who are eligible for college credit will earn 4 credits from Southwest MN State University.** See the CIS table on page 8 for eligibility criteria.  
**Prerequisite:** General Chemistry or Arts Chemistry 11  
**Grades:** 11-12  
**Terms:** 2  

6094/6095 CIS Chemistry II  
CIS Chemistry II is a one semester science elective, intended for juniors and seniors who are college bound and wish to obtain a strong chemistry background. **Upon successful completion of the course, students who are eligible for college credit will earn 4 credits from Southwest MN State University.** See the CIS table on page 8 for eligibility criteria.  
**Prerequisite:** CIS Chemistry I  
**Grades:** 11-12  
**Terms:** 2  

6005/6006 Advanced Biology  
Advanced Biology is a course for students with a serious interest in the biological sciences. Advanced Biology will focus primarily on three of the four Big Ideas developed by the AP College Board for Biology. **Big Idea #1** explores the driving force of evolution. **Big Idea #2** covers energy utilization and life’s processes. **Big Idea #4** will look at biological systems and their complex interactions. Specific topics include, evolution, ecology, diversity of life, molecules and cells, cell processes and genetics. 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 or Arts Biology 10  
**Grades:** 11-12  
**Terms:** 2  

6008 Biotechnology  
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. The course will also explore applications for biotech in the medical and agricultural areas and social issues related to biotechnology. Hands-on laboratory activities will provide opportunities for problem solving through practical application. One issue analysis project 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
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.

6501/6502 American Government
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.

Grade: 9  Terms: 2

6509 Minnesota History
Designed as a one term elective for 9th and 10th 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 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 the 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.

Grade: 10  Terms: 2

6535/6536 Integrated American History 10 & 3560/3561 Integrated English 10  All Standards
This course will coordinate the English 10 Language Arts curriculum with the American History 10 curriculum in a more inter-disciplinary approach to enhance learning opportunities and retention in both subject areas. This format allows the instructors to plan together and support each other’s curriculum and instruction. It will also allow students to use reading, writing, and discussion techniques learned in the English classroom and transfer that knowledge and experience to the Social Studies classroom. Our goal is to make students’ learning more relevant and connected throughout the semester.

Grade: 10  Terms: 2

6516/6517 CIS US History
This course focuses on the major cultural, social and political issues in United States History. The first quarter will look at the ideas that led to the revolution, how the thirteen colonies assembled themselves
into a republic, the consequences of the slave culture to the course of American History, the Civil War and the promises and failures of Reconstruction. The second quarter will look at the influence of the industrial revolution, the impact of immigration, the Great Depression, World War II, the Cold War and the impact of United States foreign and domestic policy. The students will gain insight into the aspects that are the most crucial for a solid understanding of the nation’s history. Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from North Hennepin Community College. See the CIS table on page 8 for eligibility criteria.

Prerequisites: American Government & English 9 with an A

Grade: 10 Terms: 2

6514/6515 World Studies
This course will allow students to study a combination of world history, geography, and cultures. Subjects studied range from ancient civilizations to modern day events and places from around the world.

Grade: 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. Current Events I is not a prerequisite for this course.

Grades: 11-12 Terms: 1

6510 Social Issues & Diversity
This course will address some of the contemporary issues and controversies in society. Students will be exposed to the sociology perspective to develop an understanding of issues related to inequality, deviance and the justice system, sexuality, drugs, mental and physical health, and the environment. A special focus of the course will be the American experience for minorities in society related to the issues and controversies studied in class.

Grades: 11-12 Terms: 1

6532 World Religions
Ever wonder what karma, nirvana, yin and yang, jihad, kosher, and the holy trinity really are? What do they have in common? Find out in this class! This class provides an introduction to the world’s major religions. Some religions might be familiar, some strange and some you may never have heard about. We will discuss some of the major world religions: Hinduism, Buddhism, Judaism, Christianity, and Islam plus brief descriptions of other religions and religious practices. Primary sources, speakers from the various traditions, and class discussions will be used to explore questions common to the human experience. This course will teach the history and practices about the major religions of the world, not promote or celebrate one religion over another. Join this course and learn about the diverse spiritual paths humanity has taken.

Prerequisite: World Studies

Grades: 11-12 Terms: 1

6507 Economics
6508 Economics Hybrid
Economics is a one term survey course that covers both Microeconomics and Macroeconomics. Microeconomics looks at economic decision making by individuals, households, and businesses. We will compare and contrast different economic systems, and discuss how Capitalism in America functions.
Macroeconomics focuses on the working of the economy as a whole. Students will also create their own personal finance knowledge throughout the term. The class features many hands on activities and simulations. Discover why economics is called the science of decision making.

Grades: 11-12   Terms: 1

6522/6523 CIS Intro to Economics  
Economics is a social science seeking to understand society. Economics students investigate choice under conditions of scarcity. Microeconomics 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. **Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from St. Cloud State University.** See the CIS table on page 7 for eligibility criteria.

**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

6511 Psychology A  
This course will introduce students to the interesting world of psychology. We will cover the history of psychology, how the brain affects 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  
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

6533 Psychology A Hybrid  
The Psychology A hybrid class blends the same curriculum as a face-to-face classroom setting with an online learning environment. This class will mix "online days" with "in class" days to give students scheduling flexibility while preparing students to be successful in college and university online learning environments. During online days, student requirements can be completed from home or anywhere there is an Internet connection. Web 2.0 enhancements and Google Docs are employed during online days to achieve communicative goals. Moodle and or Google chat functions and instructor office hours will be open during online days for student questions.
This course is designed specifically for students in grades 11-12 and is only offered blocks 1 and 4. The course will cover the History of Psychology, How the Brain Affects Behavior, Abnormal Psychology/Mental Illness, Dreams/Hypnosis/Meditation, and Memory.

Grades: 11-12    Terms: 1

**6534 Psychology B Hybrid**
The Psychology B hybrid class blends the same curriculum as a face-to-face classroom setting with an online learning environment. This class will mix "online days" with "in class" days to give students scheduling flexibility while preparing students to be successful in college and university online learning environments.

During online days, student requirements can be completed from home or anywhere there is an Internet connection. Web 2.0 enhancements and Google Docs are employed during online days to achieve communicative goals. Moodle and or Google chat functions and instructor office hours will be open during online days for student questions.

This course is designed specifically for students in grades 11-12. The course will cover the Personality, Human Development, Social Psychology, Operant and Classical Conditioning, and Experimental Research.

Grades: 11-12    Terms: 1

**6518/6519 CIS Introduction to Psychology 101**  
*NCAA approved*
The course will cover the principles, 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.

**Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from Southwest MN State University.** See the CIS table on page 8 for eligibility criteria.

**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 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. **Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from Southwest MN State University.** See the CIS table on page 8 for eligibility criteria.

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

Grades: 11-12    Terms: 2

**6537/6538 CIS Introduction to Sociology**
Sociology is the study of human society focusing on the social and cultural aspects of human behavior. Students will analyze society through the sociological perspective, which looks for general patterns and behaviors of a particular group. Topics include society and culture, roles and norms, groups and organizations, deviance, inequality, social and cultural change, and research methods. This course is designed by North Hennepin Community College taught by BHS teachers. The rigor and assessments will align with the corresponding class taught at NHCC. **Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from North Hennepin Community College.** See the CIS table on page 8 for eligibility criteria.

Grades: 11-12    Terms: 2
Technology Education

The Technology Education department 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.

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

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 Technology Exploration (formerly Goals 2000)
This class explores technologies used today. The class offers 16 different stations which students rotate through during the term (8 each term). Examples of 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/3D Modeling, 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 technological problem-solving/design projects during the course. This 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 design 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 in which they produce a model using the 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

7016 CIS 3-D Mechanical Drawing
Students who enjoyed working with AutoCAD in Introduction to CAD will find this class entertaining. Students will use a 3-Dimensional software called CREO to draw mechanical objects in 3-D. Students will learn how to draw exploded views, threaded bolts, and much more. Students will also produce actual models of their drawings using the laser and the 3-D printer. Upon successful completion of the course, students who are eligible for college credit will earn 4 credits from Hennepin Technical College.

See the CIS table on page 8 for eligibility criteria.

Prerequisite: Introduction to CAD
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  CIS Woods II
For those of you who enjoyed working with your hands in Wood Technology, this class is for you. Students will build a pre-assigned project. Woods II will continue to teach you skills that will make you a better craftsperson with your hands. Please note, students are responsible for their extra material. Upon successful completion of the course, students who are eligible for college credit will earn 2 credits from Hennepin Technical College. See the CIS table on page 8 for eligibility criteria.

*Students should not register for this course if they have successfully completed Woods II.
Prerequisites: Wood Technology
Grades: 10-12  Terms: 1
Why stop at two? Go for three. Students will be able to continue developing craft and building skills. Students will build a pre-assigned project. (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.) **Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from St. Cloud State University.** See the CIS table on page 7 for eligibility criteria.

**Prerequisites:** CIS Woods II

**Grades:** 11-12  **Terms:** 1

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**CIS Woods III**

This class is for students who are creative, thinking about becoming engineers, or like to work with their hands. Students have to find creative solutions to problems they’re given in class. Examples of problems are catching eggs using only cardboard and duct tape, building a catapult, and making a “wire racer”. If it sounds fun and interesting…then this class is for you. Students will follow a research and development process for solving the problems. Students keep a daily journal but do not write research papers. Students will also be eligible for 3 college credits through Hennepin Technical College after completion of BOTH terms. **Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from Hennepin Technical College.** See the CIS table on page 8 for eligibility criteria.

**Grades:** 10-12  **Terms:** 2

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**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

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**Visual Technology**

Interested in computer graphics, digital photography/imagery, and digital video? Then this is the class for you! This class offers the opportunity to: produce photo collages/montages from scanned and digital photos, produce digital video projects, and produce color page layouts. During the production process students will learn how to put together interesting and creative photo and video projects by adding cool effects. Students will learn to use a few different software programs and have the opportunity to work with a variety of photo and video equipment. This is a fun class that allows you to be creative. This class is excellent for those involved with yearbook and the school newspaper.

**Grades:** 10-12  **Terms:** 1

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**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

7020 CIS Auto/Maintenance for Girls
This class is designed for just females at BHS. Most of you will have your driver’s license when you graduate. As a driver, you should know the simple maintenance and upkeep of your vehicle. The field of auto mechanics is a growing field and there are many opportunities for females. This class will be a good class for you to see if you are interested in having a career in the automotive world. This class won’t make you an expert in the field, but it will make you more informed on how to maintain your vehicle. This class will also make you a better consumer when looking at buying and selling vehicles.

All students with a car available are strongly encouraged to bring their car in to perform routine service and maintenance checks. However, students must then provide any parts/fluids needed to perform service/repair. Upon successful completion of the course, students who are eligible for college credit will earn 2 credits from Hennepin Technical College. See the CIS table on page 8 for eligibility criteria.

*Students should not register for this course if they have successfully completed Auto Service & Maintenance for Girls.

Grades: 10-12  Terms: 1

7021 CIS Auto Service & Maintenance
Most of you will have your driver’s license when you graduate. As a driver, you should know the simple maintenance and upkeep of your vehicle. The field of auto mechanics is a growing field. This class will be a good class for you to see if you are interested in being an auto mechanic. This class won’t make you an expert in the field of auto mechanics, but it will make you more informed on how to maintain your vehicle. This class will also make you a better consumer when looking at buying and selling vehicles.

Sophomores. All students with a car available are strongly encouraged to bring their car in to perform routine service and maintenance checks. However, students must then provide any parts/fluids needed to perform service/repair. Upon successful completion of the course, students who are eligible for college credit will earn 2 credits from Hennepin Technical College. See the CIS table on page 8 for eligibility criteria.

*Students should not register for this course if they have successfully completed Auto Service & Maintenance.

Grades: 10-12  Terms: 1

7022 Robotics
This curriculum leverages the “coolness” of robotics, and the excitement of head to head competition to inspire and engage students. During this class students will learn key STEM principles, and robotics concepts. At the culmination of this class, students will compete head-to-head against their peers in the classroom on a class designed competition. This modular and project-based curriculum teaches the design process in an engaging, hands-on manner to help challenge, motivate, and inspire students. The curriculum is created to ensure that students with varying learning styles and levels can accomplish the lesson goals. **No prior robotics experience is required**. Beginners are able to advance sequentially through the units to gradually increase their knowledge and skill level.

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.

7531 World Cultures and Communities
As we move forward into the 21st 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

**LEVEL I**
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 daily outside of the classroom.

**Grades:** 9-12  **Terms:** 2

**LEVEL II**
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
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
7517/7518 CIS French IV
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.
Upon successful completion of the course, students who are eligible for college credit will earn 5 credits from University of Minnesota Twin Cities. See the CIS table on page 7 for eligibility criteria.
Prerequisite for BHS credit: Successful completion of French III with a C or above.
Prerequisite for University of Minnesota credit: Grades 11-12 only, successful completion of French 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 for BHS credit Terms: 2
11-12 for U of M credits

7527/7528 CIS German IV
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. Upon successful completion of the course, students who are eligible for college credit will earn 5 credits from University of Minnesota Twin Cities. See the CIS table on page 7 for eligibility criteria.
Prerequisite for BHS credit: Successful completion of German III with a C or above.
Prerequisite for University of Minnesota credit: Grades 11-12, 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 for BHS credit Terms: 2
11-12 for U of M credits

7507/7508 CIS Spanish IV
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. **Upon successful completion of the course, students who are eligible for college credit will earn 5 credits from University of Minnesota Twin Cities.** See the CIS table on page 7 for eligibility criteria.

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

**Prerequisite for college credit:** Grades 11-12, 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 for BHS credit  *Grade 10 needs instructor permission  

**Terms:** 2

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**LEVEL V**

7529/7530  **CIS German V**

**NCAA approved**

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. **Upon successful completion of the course, students who are eligible for college credit will earn 5 credits from University of Minnesota Twin Cities.** See the CIS table on page 7 for eligibility criteria.

**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

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7519/7520  **CIS French V**

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. **Upon successful completion of the course, students who are eligible for college credit will earn 5 credits from University of Minnesota Twin Cities.** See the CIS table on page 7 for eligibility criteria.

**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

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7509/7510  **CIS Spanish V**

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 21st century. **Upon successful completion of the course, students who are eligible for college credit will earn 5 credits from University of Minnesota Twin Cities.** See the CIS table on page 8 for eligibility criteria.

**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

Arts Magnet Program

“Academic Excellence through Artistic Inquiry”

The Buffalo High School Arts Magnet Program educates students to become producers and consumers of the arts. Students will be compelled to Plan, Prepare and Produce, approaching learning from an artist’s perspective and embracing artistic study as a skill for problem solving. Students will have the opportunity to interact with professional working artists and arts organizations to enrich their learning while completing rigorous, standards based curriculum that challenges both intellectually as well as artistically. In addition to class work, students will create an e-portfolio that will represent their best works. It will be added to and evaluated yearly.

We offer concentrations in Visual Arts (painting, drawing, ceramics, sculpture), Performing Arts (music, theater, dance), Literary Arts (journalism, creative writing,) and Media Arts (video, photography, animation, graphic & web page design) and Applied Arts (jewelry, industrial technology, fashion design, hospitality). We also offer academically focused programs that provide a solid education in mathematics, the sciences, social studies, physical education, English and foreign languages.

The BHS Arts Magnet Program 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 have performed nationally, and student literary art is published in national journals, wins national awards and is exhibited in a variety of locations. A strong community of teachers & students will support and encourage your growth as both an artist and an individual.

PLEASE NOTE – 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.

Arts Infused Core Courses

0118/0119 Arts Infused Foundations
The Arts Foundations course focuses on the creative process and production. The class is designed to engage you in an intensive collaborative process that will create a multi-disciplined arts event. You will work with professionals from various artistic disciplines to create original works of visual and performing art. You will explore what it means to be an artist, study the foundations of art, develop your critiquing skills, and create a variety of artistic works. The class will build on your individual artistic interests.

Grade: 9  Terms: 2

0162/0163 Arts Infused Biology 10  NCAA approved
This course is structured around the Minnesota Academic Science Standards, primarily Life Science, but including some of the History and Nature of Science strand as well. 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. Learning activities are designed specifically to give students opportunities for inquiry, discovery and problem solving. Students will have many opportunities to express themselves artistically, whether through exploration for knowledge or displaying what they’ve already learned with drama, drawing, creative writing, and model design and construction, as well as oral presentations.

Grade: 10  Terms: 2

0156/0157 Arts Infused Chemistry 11  
Arts Chemistry is for students in the Art Magnet program. This course in science will focus on the chemistry topics of measurement, atomic theory, bonding, molecular shapes, physical and chemical properties, chemical reactions, kinetic theory of gases, solution chemistry, and acids and bases. These topics will be infused with various labs and projects. Students will learn the chemistry involved in various art forms as well as demonstrate their understanding of chemistry through a range of art forms.

Grade: 11  Terms: 2

0144/0145 Arts Infused American Government 9  
Students are exposed to the responsibilities citizens share in a democratic society. Students will investigate the political roots of our country and also current political and social issues. National, state, local government and the 3 branches of government will also be covered. The teachers provide an interdisciplinary learning environment 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 Government 9.

Grade: 9  Terms: 2

0152/0153 Arts Infused American History 10  
Students explore their country’s heritage with particular attention to our nation’s great events, and to the people who experienced those moments. Students will also apply basic social studies skills, such as the reading of charts, graphs, and maps. The second half of the course is devoted to the United States, its people and government, since 1900. The teachers provide an interdisciplinary learning environment 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.

Grade: 10  Terms: 2

0160/0161 Arts Infused World Studies 11  
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.

Grade: 11  Terms: 2

0142/0143 Arts Infused English 9  
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.

Grade: 9        Terms: 2

**0150/0151 Arts Infused American Literature 10**  
*NCAA approved*  
This course introduces students to our literary, historical, cultural and social heritage using historical texts, original documents, short stories, essays, poetry, novels and drama—framed within a survey of four important themes: American History, American Society, Nature and The Frontier. This course will provide an interdisciplinary learning environment where students use shared inquiry, arts and performance in learning about themselves and their relationship to the Multicultural American story. This course meets the same state academic standard and core outcomes as American Literature.

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 inquiry and writing processes and artistic performance to learn about themselves and their relationship to other cultures. Four key themes will structure the course: 1.) Myth and Symbol; 2.) Moral Courage 3.) Genocide and Oppression; 4.) Taking Perspective. The skills of writing, rhetoric and composition are emphasized as well as used as tools for learning.

Grade: 11        Terms: 2

**0003 Senior Capstone Project**  
The Capstone class is required for all Arts Magnet seniors. During the Capstone class students will work on their final art project. It is a significant project in a specific area of artistic study. Student art piece(s) or work(s) will be reviewed by a team of three, including a teacher in the area of your work, a professional artist from that area and the director(s) of the Arts Magnet program.  
In addition to the work, students will be required to submit an annotated bibliography [https://owl.english.purdue.edu/owl/resource/614/01/](https://owl.english.purdue.edu/owl/resource/614/01/) of three sources (reviewed articles or books, interviews, etc) significant to their area of study. **Students will also be required to submit a written one page artist’s statement explaining their project and its process. This requirement must be fulfilled in order to have the Arts Magnet designation on your Transcript regardless of any other course work you may have done.**

Grade: 12        Terms: 1
Buffalo High School *Arts Magnet* Graduation Requirements

To graduate with an Arts Magnet designation you must be making yearly progress toward the BHS Standards for graduation. Thirty Credits are required. For a student to graduate with an Arts Magnet Designation the following course work is prescribed. Arts Infused classes are designed to encourage artistic skill in problem solving and also meet the standards and rigor of the Minnesota Department of Education and are NCAA approved. In addition to class work students will create an e-portfolio where you will upload evidence of your best works. It will be added to and evaluated yearly.

<table>
<thead>
<tr>
<th>Program</th>
<th>Credits</th>
<th>Arts Magnet Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>1 credit</td>
<td>AI English 9</td>
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<tr>
<td></td>
<td></td>
<td>AI American Literature 10</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
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<tr>
<td></td>
<td>2 credits</td>
<td>Student choice Can Include: AI World Literature 11</td>
</tr>
<tr>
<td>Math</td>
<td>3 credits</td>
<td>Algebra 1.5 Geometry Algebra 2</td>
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<tr>
<td></td>
<td></td>
<td>*sequence depends on student performance and ability. Must include 1 credit of Algebra 2</td>
</tr>
<tr>
<td>Science</td>
<td>1 credit</td>
<td>Science 9</td>
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<tr>
<td></td>
<td></td>
<td>AI Biology 10</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
<td>Choice of Physics or AI Chemistry 11</td>
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<tr>
<td>Social Studies</td>
<td>1 credit</td>
<td>AI American Government 9</td>
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<tr>
<td></td>
<td>1 credit</td>
<td>AI American History 10</td>
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<tr>
<td></td>
<td>1 credit</td>
<td>AI World Studies 11</td>
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<tr>
<td></td>
<td>.5 credit</td>
<td>Economics</td>
</tr>
<tr>
<td>Humanities</td>
<td>1 credit</td>
<td>AI Arts Foundations is required for all Arts Magnet students.</td>
</tr>
<tr>
<td>Physical Ed.</td>
<td>1 credit</td>
<td>Physical Education 9</td>
</tr>
<tr>
<td></td>
<td>.5 credit</td>
<td>Physical Education 10 Elective Course</td>
</tr>
<tr>
<td>Health</td>
<td>.5 credit</td>
<td>Health 10</td>
</tr>
<tr>
<td>Senior Capstone</td>
<td>.5 credit</td>
<td>Capstone* is your senior project class and is required for all arts magnet students.</td>
</tr>
<tr>
<td>Remaining classes</td>
<td>13 credits</td>
<td>It is expected that you will participate in classes that are directly related to your chosen field of art and encouraged to take some from other art fields as well.</td>
</tr>
</tbody>
</table>
The Capstone requirement only applies to the Arts Magnet designation. It does not affect your graduation provided you have met the BHS 30 credit requirement as stated above.

WRIGHT TECHNICAL CENTER
CAREER & TECHNICAL EDUCATION PROGRAMS

8100/8101/8102/8103 Automotive Technology
The Automotive Technology program offers students an opportunity to train in a state of the art, industry equipped automotive shop. Time will be divided between classroom instruction and hands-on training in the shop using professional tools and equipment. All classroom and shop instruction is provided by industry certified ASE technicians.

Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate. All second year students will take the ASE Student Certification test, which is the first step in building a career as a service professional in the automotive industry.

Program Highlights
You will be trained in the following four areas:

- Brakes
- Steering and suspension
- Basic electricity and electronics
- Engine performance

Skills Needed for Success
- Must be able to work independently
- Mechanical aptitude
- Good problem solving skills
- Detail oriented
- Manual dexterity
- Strong technical reading, writing, math and computer skills
- Team player, responsible, and good communicator

College Credit Opportunities & Professional Certifications
In the Automotive Technology course, you can earn ASE certifications and college credits. Students will need to earn a “B” or better grade in their course work. College credits are available at the following schools: Hennepin Technical College, St. Cloud Community and Technical College, Anoka Technical College, and St. Cloud State University.

8117/8118/8119/8120 Construction Technology
Students who enroll in the Construction Technology course will become members of the construction crew, which builds a house from layout and framing, to final trim work. You will assist in the construction of various school and community projects based on current industry standards and practices. You will also develop skills using carpenter’s hand tools, and stationary and portable tools used in the construction industry. There is a required deposit of $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 must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate.

Program Highlights
You’ll also learn:

- Construction terminology
- Tool identification, safety and use
- Blueprint reading, layout and framing,
• Exterior sheathing, roofing, siding, window and door installation
• Interior finishing - insulating, drywall and taping, painting
• Concrete and masonry
• Wood manufacturing and cabinetry
• Commercial construction

Skills Needed for Success
• Must be able to work independently
• Manual dexterity
• Hand and eye coordination
• Physical stamina
• Strong math skills and problem solving skills
• Dependability and strong work ethic

College Credit Opportunities
College credits can also be earned if you maintain a “B” or better average in the course. Credits are available at the following schools: Hennepin Technical College, St. Cloud Community and Technical College, Anoka Technical College, and St. Cloud State University.

8136/8137/8138/8139 Cosmetology Careers
The Cosmetology Careers course introduces students to the professional beauty industry. As a cosmetology student you will study the basic laws & rules of Minnesota and practice hands-on skills in a modern salon setting. You will also explore the various career opportunities available in the cosmetology field. There is a required non-refundable fee of $45 for the purchase of your own mannequin head. Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and fulfill second year student requirements.

Program Highlights
Students with an interest and passion for Cosmetology will focus on the areas of:
• Cosmetology theory
• Infection control and safety
• Nail care, manicures, and pedicures
• Hair design and hair shaping
• Hair coloring, foiling, and color techniques
• Chemical texture & perming
• Skin care and basic gentle cleansing facials

Skills Needed For Success
• Must be able to work independently
• Hand and eye coordination
• Positive friendly personality
• Basic math, reading and writing skills
• Dependability and a strong work ethic
• Manual dexterity

College Credit Opportunities
College credits and/or hours can be transferred to following cosmetology colleges: St. Paul Technical College, Aveda Institute, Regency Beauty Institute, Empire Schools, Minnesota School of Cosmetology, Ridgewater Technical College and PCI Academy.

8113/8114/8115/8116 Early Childhood & Elementary Careers
If you enjoy working with young children and are considering a career in teaching, social work, or child psychology, enroll in Early Childhood and Elementary Careers. You’ll be able to put your classroom knowledge to work by having hands-on experiences with the preschool children in the Head Start
classroom. Internships are also required in community-based day care centers, Head Start programs, special needs programs and elementary schools.

Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate.

Program Highlights
Throughout the course you will:
- Work hands-on with preschool children weekly
- Study early child development
- Learn classroom behavior management techniques
- Create hands-on learning projects
- Experience caring for an electronic baby
- Have the opportunity to compete in State Leadership Conference
- Intern in elementary schools, preschools, or day care center

Skills Needed for Success
- Excellent communication and social skills
- Professional behavior
- Proficient reading and math skills
- Being alert and aware of what’s going on around you
- Ability to handle on-the-job experiences in public settings

College Credit Opportunities
College credits can also be earned if you maintain a “B” or above grade in the class. Credits are available from the following schools: Hennepin Technical College, St. Cloud Community and Technical College.

8001/8002/8003/8004 Engineering I & II
The Project Lead the Way (PLTW) program is a sequence of courses which introduces students to the scope, rigor and discipline of engineering prior to entering a technical college or a four year program. Students will learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical thinking and problem solving skills. Students use the same industry leading 3D design software used by companies like Intel, Lockheed Martin and Pixar. Students will also spend time on career research with the intent of having an action plan for their future career in the manufacturing or engineering fields.

Introduction to Engineering Design – IED – Semester I
Students use the design process and industry standard 3D modeling software to design solutions to solve proposed problems

Principles of Engineering – POE – Semester II
Students are exposed to major concepts like mechanisms, energy, statics, materials and kinematics.

Program Highlights
- Learn and apply the design process
- Realistic application of math, science, and engineering standards
- Hands-on projects
- Work both individually and in teams
- Design solutions to a variety of problems
- Use 3D CAD modeling software

Skills Needed for Success
- High interest in Mathematics and Science
- Utilize more Science to solve problems
- Self motivation
- Work through difficult problems with rewarding results
- Knowledge of computer basics
• Interest in earning high salary in a future career

**College Credit Opportunities**

College credits can also be earned if you maintain a “B” or above grade in the class. Credits are available from the following schools: Normandale Community College, St. Cloud State University, St. Cloud Technical & Community College, and South Central College - Mankato.

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

This course is designed to give the students an overview of the graphic communications industry. You will develop and enhance your creative skills and artwork through visual presentations. You will complete projects which simulate industry standards. You will gain entry-level knowledge and skills required of this fast-paced graphic industry. Throughout the class, you will have the opportunity to participate in field trips, industry tours, and hear from classroom guest speakers.

*Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate.*

**Program Highlights**

Throughout the course you will learn:

- Electronic Publishing
- Adobe Photoshop & Illustrator
- Adobe In-Design
- Package Design
- Vinyl Sign and Apparel Design
- Screen Printing
- Google Sketch Up
- Digital Portfolio

**Skills Needed for Success**

- Ability to organize information visually
- Ability to read and follow directions
- Hand-eye coordination
- Ability to work quickly and accurately
- Creative ability and problem solving skills
- Basic math and reading skills

**College Credit Opportunities**

College credits can also be earned if you maintain a “B” or better grade at the following schools: St. Cloud Community and Technical College, and Central Lakes College.

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

The Health Science Technology course is an excellent foundation for all students interested in entering the medical profession. You will explore a wide variety of medical careers through research, guest speakers, and field trips. You will learn over 350 medical terms, study anatomy & physiology, and practice with medical equipment; such as automated external defibrillators (AEDs), stethoscopes, sphygmomanometers, plus many more. After completing the course you will be eligible to become a nursing assistant.

You have the option of becoming certified in BLS (Basic Life Support) for the Healthcare Provider and First Aid. You will perform hands-on medical skills in simulated hospital rooms. After completing the medical skills, you will have an opportunity to participate in an on-the-job training at a local nursing home. You will be studying the MN Dept. of Health Nursing Assistant Curriculum which will prepare you for the state nursing assistant exam and will complete the nursing assistant prerequisite for various nursing programs.

**Program Highlights**

This year long program teaches you;

- The variety of medical career options
• Medical terminology & abbreviations
• Anatomy & physiology through dissection
• Nursing Assistant training (NAR)
• Leadership skills by participating in a professional student organization (HOSA)
• Job seeking skills
• CPR and First Aid for the Healthcare Provider

Skills Needed for Success
• Strong math, technical reading and writing skills (minimum of 6th grade reading level)
• Identify and solve problems quickly
• Good hand-eye coordination
• Good communication skills
• Excellent people and teamwork skills
• Demonstrate patience, understanding and ability to be empathic
• Honest and trustworthy
• Conscientious, dependable and responsible
• Courteous and respectful

College Credit & Certification Opportunities
Students can earn up to nine college credits and are available through the following schools: Anoka-Ramsey Community College, Anoka Technical College, Central Lakes College, Normandale Community College, North Hennepin Community College, St. Cloud Technical & Community College, and Hennepin Technical College and most other MN colleges & universities. Students will have the opportunity to take the state examination to become a licensed nursing assistant registered (NAR).

8044/8045/8046/8047 Law Enforcement & Emergency Medical Responder
In the Law Enforcement and Emergency Medical Responder course you will receive academic instruction with hands-on training needed to develop the knowledge and skills for a future career in the criminal justice field or as a professional rescuer. 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 used by law enforcement and first responder professionals.

Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate.

Program Highlights
Areas of study for Law Enforcement will 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
Areas of study for First Responder will include:
• First responder certification
• CPR & AED certification
• Advanced First Aid
• Blood borne pathogens training

Skills Needed For Success
• Must be able to work independently
• Writing and reading skills
• Critical thinking skills
• Detail orientated

• Fingerprinting and booking
• Criminal & traffic statutes
• Report writing
• Computerized firing range
• Defensive tactics
• Military obstacle & climbing wall
• DUI driving course
• Computerized criminal cases
• Decisiveness
• Listening & public speaking skills
• Time management skills
**College Credit Opportunities**
College credits can also be earned if you maintain a B or above grade at the following schools: Hibbing Technical College, and Alexandria Technical & Community College.

**8132/8133/8134/8135 Welding Technology**
In the Welding Technology course, you will be introduced to world of welding. This hands-on course will focus on the various welding processes used in today’s industries. You will learn to weld mild steel, carbon steels, stainless steels, alloy steels and non-ferrous metals. You will have the opportunity to demonstrate your welding skills by completing individual projects. Students will use state of the art equipment to work towards completing an American Welding Society (AWS) certification. It is recommended that each student purchase his/her own welding leathers, gloves, safety glasses and welding helmet –at an approximate cost of $80.

*Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate.*

**Program Highlights**
This hands-on course will teach you:
- Welding safety and equipment use
- Arc, wire feed, and TIG welding
- Oxyacetylene and flame cutting
- Blue-print reading
- CNC plasma cutting

**Skills Needed for Success**
- Must be able to work independently
- Mechanical aptitude
- Manual dexterity
- Eye-hand coordination
- Detail oriented
- Ability to problem solve
- Strong Math and Reading Skills

**College Credit Opportunities**
College credits can also be earned if you maintain a “B” or above grade in the course. Credits are available from the following schools: Anoka Technical College, Central Lakes College, Dakota County Technical College, Hennepin Technical College, Ridgewater Technical College, Riverland Community College, Rochester Community & Technical College, St. Cloud Technical & Community College, and South Central College.

**8121/8122/8123/8124 On-The-Job Training - Grade 12 only**
This unique program allows students the opportunity to make the workplace their classroom. Students are allowed to leave school to go to their job and earn money while learning people skills, technical knowledge and countless other workplace competencies which can’t be taught in the classroom. Students also attend class one afternoon per week at Wright Technical Center. Students are required to work at least 10 hours/week and bring their paystubs to class. The primary objective of OJT is to provide students with the necessary skills and knowledge to enable them to be successful in the workplace.

**Program Highlights**
- Personal finance
- Safety-on-the-job
- Interviewing skills
- Career exploration
- Soft skill development
• Job shadowing
• Work site visits

Skills Needed for Success
• Dependability and a strong work ethic
• Ability to work as a team member
• Excellent written and verbal skills
• Basic reading, writing and math skills
• Work-readiness skills
• Willingness to improve your people skills

Program Requirements
Each student must agree to:
• Attend a required class at WTC one day a week.
• Cannot quit or change jobs without first discussing the issue with the instructor.
• Provide photocopies of all pay stubs for every day of work.

9930/9931/9932/9933 - CREATING ENTREPRENEURIAL OPPORTUNITIES - CEO
*Offered Mornings Only (7:30 – 9:00 am)

This program is different from the traditional classroom instruction. The classroom is not located in a school facility, but rather in local businesses. You attend class onsite and learn from exposure to real-world experiences provided by business leaders in the community. Over this year-long course, you will have the opportunity to start real businesses and learn from your successes and failures. This experience will expose you to an environment you’ve most likely not yet seen and provide skills that will benefit you for the rest of your life.

Students must apply for acceptance into this program. Applications are available mid-year in your high school guidance office.

Program Highlights
• Provide opportunities for students to be engaged, curious, and ready to learn about modern business practices
• Educate students on the opportunities in their communities
• Create new and innovative businesses
• Provide real-world, real-life experiences for students
• Connect students with business professionals
• Transform the way young people view the world and their future
• Inspire and encourage young people to return to their communities to live, work, raise families, and start businesses.
• Provide the opportunity for each student to start their own business
• Provide a mentor from the business community for each CEO student

Program Requirements
• Students must be able to dress and act professionally
• Students must be extremely punctual
• Students must provide their own transportation

Terms: 4
Youth Apprenticeship takes career exploration to the next level and allows high school students an opportunity to learn highly technical skills from a trained worksite mentor and get paid. Student spend a designated amount of time learning the skill from the mentor and are then allowed to progress on their own until they reach the industry standard for that skill. It is the goal of youth apprenticeship to expose students to a wide variety of workplace departments and maximize their career exposure. Wright Tech’s program will provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students work 10+ hours per week during the school year and are encouraged to work during the summer, depending on business needs. Availability is dependent on the local employer needs and mentoring capability. Contact your high school counselor for additional details.

Program Highlights
- Industry-developed skill standards
- Exposure to multiple aspects of the industry
- Skilled mentors assigned to train the students
- Paid on-the-job work experience
- Related classroom instruction concurrent with work-based learning
- Curriculum guidelines for all programs
- Performance evaluation of demonstrated competencies
- State-issued skill certificate

Skills Needed for Success
- Dependability and a strong work ethic
- Ability to work as a team member
- Excellent written and verbal skills
- Basic reading, writing and math skills
- Work-readiness skills
- Willingness to improve your people skills
- Completion of online safety training

Terms: 4