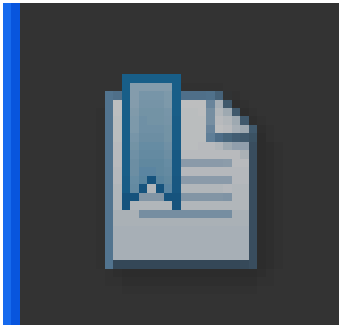


# **BEDFORD HIGH SCHOOL**

## **CURRICULUM GUIDE**

**2012 – 2013 SCHOOL YEAR**

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# BEDFORD HIGH SCHOOL

## CURRICULUM GUIDE

2012 – 2013 SCHOOL YEAR

### GENERAL INFORMATION

#### BEDFORD HIGH SCHOOL ADMINISTRATION

**Mr. Scott Stalker**

Principal

[Scott.Stalker@bedford.k12.mi.us](mailto:Scott.Stalker@bedford.k12.mi.us)

734.850.6101

**Mrs. Alice Murphy**

Career Technical Director

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734.8750.6109

**Mr. Mickey Avalos**

Assistant Principal – Students' last names H - O

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734.850.6107

**Mr. Mark German**

Athletic Director

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734.850.6080

**Mr. Andy Rousselo**

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734.850.6178

**Mrs. Jacqueline Schultz**

Assistant Principal – Students' last names P – Z

[Jacqueline.Schultz@bedford.k12.mi.us](mailto:Jacqueline.Schultz@bedford.k12.mi.us)

734.850.6107

#### BEDFORD HIGH SCHOOL COUNSELING OFFICE

**Mrs. Linda Beuhler**

Students' last names G – L

[Linda.Beuhler@bedford.k12.mi.us](mailto:Linda.Beuhler@bedford.k12.mi.us)

734.850.6114

**Mrs. Lea Etts**

Students' last names M – R

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734.850.6112

**Mrs. Renee Fettig**

Students' last names F + S – Z

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734.850.6115

**Mrs. Brenda Michalak**

Director of Counseling

Students' last names A – E

Open Door Students

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734.850.6113

## Michigan Merit Exam

All students are required to take the MME (Michigan Merit Exam) test during their junior year of high school.

## Graduation Requirements

### Credits Required to Graduate – 27.5

- 4.0 Credits in English/Language Arts
- 4.0 Credits in Mathematics
  - 1.0 credit of Algebra 1
  - 1.0 credit of Geometry
  - 1.0 credit of Algebra 2
  - 1.0 credit of additional math in the final year\*
- 3.0 Credits in Science
  - 1.0 credit of Biology
  - 1.0 credit of Chemistry or Physics
  - 1.0 credit of additional science
- 3.0 Credits in Social Studies
  - 1.0 credit of U.S. History and Geography
  - 1.0 credit of World History and Geography
  - 0.5 credit of Civics
  - 0.5 credit of Economics
- 1.0 Credit in Health and Physical Education
- 1.0 Credit in Visual, Performing, Applied Arts
- 1.0 Credit in Online Learning Experience
- 10.5 Credits in Electives

\* Students are required to earn one math or math related credit in the final year of high school. Math related credit refers to the following programs

- Accounting
- Construction
- Drafting/CAD

Credit will be awarded after successful completion of 4 trimesters or a minimum of 2 years, and the student must be enrolled in the program during his/her senior year of high school.

## College Credit Opportunities

College credit may be awarded for completion of the following programs through an CTE Articulation Agreement and Dual Enrollment opportunities.

### CTE ARTICULATION AGREEMENT

- Accounting Technology
- Business Management Technology
- Automotive Technology
- Broadcasting Technology
- Construction Technology
- Drafting Technology
- Machine Technology

## DUAL ENROLLMENT OPPORTUNITIES

In an effort to meet students' needs and interests, school districts have allowed their students to attend courses at local college or universities in addition to their own high school. This is called "dual enrollment."

Public Act 160 created the Postsecondary Enrollment Options Act which directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:

1. Students are in grade 11 or grade 12.
2. Students must have taken and received scores for one of the following four tests: PLAN, PSAT, ACT, or the MME.
3. Students must be enrolled in both the school district and postsecondary institution during the local school district's regular academic year.
4. The college courses must not be offered by the district. An exception to this could occur if a scheduling conflict exists, which is beyond the student's control or the student has already taken the district's course.
5. The college courses cannot be a hobby, craft or recreation course, or the subject areas of physical education, theology, divinity or religious education.

School districts are required to pay the lesser of: (a) the actual charge for tuition, mandatory course fees, materials fees and registration fees, or (b) the state portion of the students' foundation allowance, adjusted to the proportion of the school year they attend the post secondary institution.

## Visual, Performing, Applied Arts

Students are required to earn 1.0 credits in courses that address visual, performing, or applied arts. Following is a list of current classes that satisfy this requirement.

For example: if a student is taking Freshmen Choir for all three terms, they will have met the requirements with Freshmen Choir A and Freshmen Choir B, with Freshmen Choir C being counted as an elective.

### Art Classes

Art History 1, 2, 3  
Basic Jewelry Making  
Black & White Photography – Introduction  
Black & White Photography – Intermediate  
Ceramics - Introduction  
Ceramics Hand Building – Advanced  
Digital Photography – Beginning  
Digital Photography & Cyber Art - Intermediate  
Digital Photography & Cyber Art – Advanced  
Drawing – Basic, Life, or Advanced  
Foundations in Art 1, 2  
Painting – Basic  
Painting – Advanced  
Painting – College Prep  
Sculpture – Introduction  
Wheel Throwing – Introduction  
Wheel Throwing – Intermediate  
Wheel Throwing – Advanced

### Business Classes

Computer Graphic Layout & Design 1, 2  
Marketing  
Web Page Design 1, 2

### English Classes

Speech & Theatre

### Family & Consumer Science Classes

Interior Decorating 1  
Interior Decorating 2

### Industrial Technology Classes

Engineering & Architecture Fundamentals B  
Construction Fundamentals  
Machine Technology 1, 2, 3

### Music Classes

Band – Jazz  
Band – Varsity  
Band – Symphonic  
Choir – Freshmen  
Choir – Varsity  
Choir - Concert  
Music Theory & History  
Orchestra  
Popular Music  
Soiree Singers  
Theatre and stagecraft

## **ART DEPARTMENT**

### **FOUNDATIONS IN ART 1 – COURSE 5804**

Grades: 9, 10, 11, 12

Prerequisite: None

Here's where it all begins! The foundations course serves as an introduction to the world of art through the development of a solid foundation of basic theories and concepts associated with both dimensional and 3-dimensional art. Students will explore the following art principles: Line, Line Quality, Shading/Shade Quality, Shading Techniques, Perspective (one and two-point), Composition, Basic Compositional Drawing (still-life), Design Balance, Color Theory, and Art History (Impressionism).

### **FOUNDATIONS IN ART 2 – COURSE 5808**

Grades: 9, 10, 11, 12

Prerequisite: Foundations in Art 1

This course is an extension of Foundations in Art 1. It serves as a means of taking more art at the high school level without a long-term commitment to the arts, as well as a means of solidifying skill before moving into intermediate and advanced classes. Students will explore the following media/subject matter: Sculpture (Soapstone/Alabaster), Portraiture, Linoleum Block Printing, Compositional Still Life in Color (Colored Pencil/ Oil Pastel), Intermediate Color Theory, and Career Exploration in Art.

### **ART HISTORY 1 – COURSE 5814**

Offered even years - 2012-2013

Grades: 9, 10, 11, 12

Prerequisite: None

Students will complete projects based on the history of art and artists explored from Prehistoric through Medieval times. Students will explore various types of media and techniques including but not limited to: Pencil, Colored Pencil, Clay, Charcoal, Pastel, and Sculpture.

### **ART HISTORY 2 – COURSE 5818**

Offered odd years – 2013-2014

Grades: 9, 10, 11, 12

Prerequisite: None

Students will complete projects based on the history of art and artists explored from the Renaissance through the 19<sup>th</sup> century. Students will explore various types of media and techniques including but not limited to: Pencil, Charcoal, Watercolor, Printmaking, Pastel, and Sculpture.

### **ART HISTORY 3 – COURSE 5824**

Offered even years – 2012-2013

Grades: 9, 10, 11, 12

Prerequisite: None

Students will complete projects based on the history of art and artists explored from the 20<sup>th</sup> century through Post Modern Art. Students will explore various types of media and techniques including but not limited to: Pencil, Paint, Pastel, Collage, Mixed Media, Found Object, and Sculpture.

### **INTRODUCTION TO CERAMICS – COURSE 5828**

Grades: 9, 10, 11, 12

Prerequisite: None

Students will achieve a basic understanding of clay, glaze, and firing processes. Students will explore hand building methods to create functional and non-functional forms. The following construction methods will be explored: Pinch, Coil, Soft Slab, Stiff Slab and Drape.

### **INTRODUCTION TO WHEEL THROWING – COURSE 5834**

Grades: 9, 10, 11, 12

Prerequisite: Introduction to Ceramics

Students will develop beginning and basic skill in the use of the potter's wheel with regards to traditional thrown forms. Students will explore the techniques for creating the following forms: Bowls, Cylinders, Cups, and Vases. In addition to throwing, students will expand upon basic hand built knowledge, and create new forms.

### **INTERMEDIATE WHEEL THROWING – COURSE 5838**

Grades: 9, 10, 11, 12

Prerequisite: Introduction to Wheel Throwing

Students will expand upon basic wheel throwing, as taught in the beginning course and introduce multi-piece construction of wheel thrown forms, and introduce glaze experimentation. The following forms and techniques will be explored: Bowls, Cylinders, Vases, Manipulation of Forms, and Stacking/Sectioning. In addition to throwing, students will expand upon basic hand built knowledge, and create new forms.

### **ADVANCED WHEEL THROWING – COURSE 5844**

Grades: 10, 11, 12

Prerequisite: Intermediate Wheel Throwing

This course will delve deeper into the creation of larger-scale forms and the manipulation of basic thrown forms in order to create ceramic artwork. Techniques covered in this course include: Stacking, Manipulation of Large and Small forms, and Teapots (traditional and sculptural). In addition to throwing, students will expand upon basic hand built knowledge, and create new forms.

### **POTS THAT POUR – COURSE 5848**

Grades: 10, 11, 12

Prerequisite: Advanced Wheel Throwing

This course will cover the functionality and the application of useful/functional pottery. Techniques and processes covered will include: Teapots (traditional and non-traditional), Teacups, and Pitchers. In addition to throwing, students will expand upon basic hand built knowledge, and create new forms.

### **ADVANCED CERAMICS HAND BUILDING – COURSE 5854**

Grades: 9, 10, 11, 12

Prerequisite: Introduction to Ceramics

Students will enter the area of structural dynamics and advanced hand building techniques in creating large-scale sculptural as well as functional pieces. Students will explore an advanced level of the following techniques: coil, soft slab, stiff slab, and pinched forms.

### **ALTERNATIVE FIRING TECHNIQUES – COURSE 5858**

Grades: 10, 11, 12

Prerequisite: Advanced Wheel Throwing

Students in this class will participate in finishing ceramic art in methods other than traditional glaze firing. Students will explore the following techniques: Smoke Firing, Raku, Wood Firing, and Saggar Firing. In addition to throwing, students will expand upon basic hand built knowledge, and create new forms.

### **ADVANCED RAKU FIRING – COURSE 5864**

Grades: 10, 11, 12

Prerequisite: Advanced Wheel Throwing

Students will become an active participant in the Raku firing process, including controlling combustible material and understanding and recognizing when a piece is ready to come out of the kiln, as well as creating Raku artwork. Techniques and processes covered in this course include: Glaze Reaction and Experimentation, Taping and Masking, Wax Uses, Thrown Pieces. In addition to throwing, students will expand upon basic hand built knowledge, and create new forms.

### **INTRODUCTION TO SCULPTURE – COURSE 5868**

Offered odd years – 2013-2014

Grades: 9, 10, 11, 12

Prerequisite: Foundations in Art 1

Students will learn the basics of three-dimensional form, while exploring both subtractive and additive sculpture. Students will explore the following techniques: Modeling, Casting, Assemblage, Relief, Clay, Wire, Plaster, and Soapstone.

### **ADVANCED SCULPTURE – COURSE 5874**

Offered even years – 2012-2013

Grades: 10, 11, 12

Prerequisite: Introduction to Sculpture

Students will create three-dimensional forms, while exploring both subtractive and additive sculpture on a larger and more difficult scale. The following techniques include: Modeling, Casting, Assemblage, Relief, Clay, Wire, Plaster, and Soapstone.

### **BASIC DRAWING – COURSE 5878**

Grades: 9, 10, 11, 12

Prerequisite: Foundations in Art 1

Basic Drawing will enable the student to improve their drawing and rendering skills with a variety of methods and techniques explored. The Basic Drawing course will explore the following media/subject matter: Perspective Review (one and two-point), Contour Drawing, Shading/Gradation, Compositional Still-life, Gesture Drawing, Portraiture, Pen and Ink.

### **LIFE DRAWING – COURSE 5884**

Offered even years – 2012-2013

Grades: 10, 11, 12

Prerequisite: Basic Drawing

Life Drawing will center on the human form and portraiture. Students will learn various techniques for drawing the figure and portraiture while developing an effective, expressive, and meaningful interpretive style. The Life Drawing course will cover the following: Positive/Negative Shape, Line/Line Quality, Form/Shape, Balance/Movement, Gestural Drawing Techniques, Portraiture, Self-Portraiture, and Life Drawing with alternative materials (pen + ink, pastel, etc.).

### **ADVANCED DRAWING – COURSE 5888**

Grades: 11, 12

Prerequisite: Basic Drawing

Advanced Drawing students want to be challenged. The course is designed for serious art students desiring post-secondary study in art who would like to explore their creative limits in the rendering method. Students will create portfolio quality work for college admission and/or scholarship consideration. The course will cover the following: Exploratory Gestural Drawing, Large-Scale Drawing, Experimental Drawing, Thematic Drawing (emotion, opinion, etc.) Mixed Media, and Portfolio Development.

### **BASIC PAINTING – COURSE 5894**

Grades: 9, 10, 11, 12

Prerequisite: Foundations in Art 1

Basic Painting is for students that would like to learn intermediate painting skills beyond the Foundations course. Students who take Basic Painting will develop mastery of basic and advanced color theory as well as a variety of media. The course will cover the following: Color Theory, Advanced Color Theory, Color Theory Application, Tempera/Gouache Painting, Introduction to Acrylics, Still Life Painting, and an Introduction to Oil Pastels.

### **ADVANCED PAINTING – COURSE 5898**

Grades: 10, 11, 12

Prerequisite: Basic Painting

Advanced Painting is for the serious art student that is looking for portfolio-quality work and desires post-secondary study in art. The course will cover the following: Chalk Pastel, Oil Painting, Portraiture Painting, Figurative Painting, Experimental Painting/Mixed Media, Expressionism and Portfolio Development.

### **COLLEGE PREP PAINTING – COURSE 5904**

Grades: 11, 12

Prerequisite: Advanced Painting

College Prep Painting is for the most serious of art students. Their work will be created in an individual environment that is tailored for not only their strengths, but their areas needing further study before heading to post-secondary study. The Advanced Painting structure will rely on personal artistic growth and development of individual style/technique in a series of specifically designed and tailored pieces. This will be accomplished through a cooperative effort on the part of the individual and the instructor, designing an individual outline of the type and number of projects required depending on level of talent and breadth of existing work.

### **INTRODUCTION TO BLACK & WHITE PHOTOGRAPHY – COURSE 5908**

Grades: 10, 11, 12

Prerequisite: None

Students will learn traditional black and white photography including film and photo development. Students will explore the following techniques: Pinhole Camera, Photograms, Manual Camera, Lighting, Composition, Darkroom Development, Cropping, Dodging, and Burning.

### **INTERMEDIATE BLACK & WHITE PHOTOGRAPHY – COURSE 5914**

Grades: 10, 11, 12

Prerequisite: Introduction to Black and White Photography

Students will further their knowledge of black and white photo development and learn how to manipulate photos in and out of the darkroom. The following techniques/methods will be explored: Manual Camera, Lighting, Composition, Darkroom Development, Negative Layering, Antiquing/Sepia Toning, Hand Coloring, and Collage.

### **ADVANCED BLACK & WHITE PHOTOGRAPHY – COURSE 5924**

Grades: 10, 11, 12

Prerequisite: Intermediate Black and White Photography

Students will further their knowledge of black and white photography, and learn how to manipulate photos at the time the film is taken. The following methods/techniques will be explored: Manual Camera, Lighting, Composition, Darkroom Development, Night Photography (Long Exposures), Painting with Light, Ghost-like Images, and Emulsion Transfers.

### **INTRODUCTION TO DIGITAL PHOTOGRAPHY/CYBER ART – COURSE 5928**

Grades: 9, 10, 11, 12

Prerequisite: None

Lay a foundation for your digital arts projects by exploring the technology and creative applications of digital imaging and photography. Explore the interaction of photography techniques and environmental factors to create powerful digital images. Get a thorough grounding in Adobe Photoshop, the premier digital imaging program for graphic designers and photographers. Students will explore various techniques including but not limited to Point of View, Composition, Line, Shape, Form, Texture, Photo-editing, and the Early History of Photography.

### **INTERMEDIATE DIGITAL PHOTOGRAPHY/CYBER ART – COURSE 5934**

Grades: 9, 10, 11, 12

Prerequisite: Introduction to Digital Photo/Cyber Art

A deeper exploration of digital photographic techniques and environmental affects merged with advanced methods of electronic and traditional image manipulation. The course builds upon basic level of Photoshop knowledge and experience. Whether you're interested in fine art, graphic design, or developing web sites, a mastery of digital photography gives you creative control of the medium. The following techniques will be explored: Color Theory Dominance and Subordination, Coherence, Balance, Positive and Negative Space, Rhythm, Unity, Introduction of Layers, Creating Special Effects, and the Modern History of Photography.

### **ADVANCED DIGITAL PHOTOGRAPHY/CYBER ART – COURSE 5938**

Grades: 9, 10, 11, 12

Prerequisite: Intermediate Digital Photography/Cyber Art

Students explore professional approaches to compositing, retouching, image correction, and masking. Brushes, lighting, texture, and special effects are explored as creative ways of producing high-impact images for print or Web media. The course builds upon an intermediate level of Photoshop knowledge experience and offers custom designed projects that are challenging on both technical and artistic levels. Students will have the opportunity in this course to explore individual interests and create a photography portfolio ready to be presented over the web, sent via email, or distributed on a CD to potential "clients". The following techniques/methods will be explored: Advanced Special Effects and Manipulation, Working with Layers, Combining Images/Photomontage, Experimentation with Type, Development of Personal Criteria for Evaluating works-in-process and final products, Building your Portfolio and Current Trends in Digital Photography-

### **PRINTMAKING – COURSE 5944**

Grades: 10, 11, 12

Prerequisite: Foundations in Art 1

Printmaking will explore the methods associated with creating single (mono) and multiple images in a variety of techniques. Printmaking students will work in the following areas: Line/Line Value, Shade/Shading Techniques, Monoprint, Linoleum Block Print, Mixed Media Print, and Silkscreen.

### **BASIC JEWELRY MAKING – COURSE 5948**

Grades: 10, 11, 12

Prerequisite: Foundations in Art 1

Basic Jewelry Making will offer students the opportunity to learn the basics of metal manipulation and techniques associated with metalworking. Students will explore the following: Basic Metalworking Tooling, Metalworking Methods (drilling, forming, sawing), Found Object Projects, Lost Wax Casting, Mold Making, and Polishing.

**PORTFOLIO PREP – COURSE 5954**

Grades: 10, 11, 12

Prerequisite: Advanced Drawing and Painting

Portfolio Prep is for the student who will be attending a college/university for post-secondary study in art. The Portfolio Prep student will leave with a portfolio of work suitable for admission and scholarship consideration at the school(s) of their choice. The Portfolio Prep class structure will rely on individual artistic goals. These goals will be determined by a number of factors including: type of post-secondary institution desired, current inventory of work suitable for a portfolio, emphasis on mastery of weaker areas in art, and the development of student voice, breadth, sensitivity, and knowledge in art.

Students will have a portfolio examination and conference prior to starting this course to determine type and number of projects required.

# **BUSINESS TECHNOLOGY DEPARTMENT**

## **ACCOUNTING - Levels 1, 2, and 3**

Accounting is an essential part of every successful business institution and organization. This curriculum is designed to provide students a strong foundation in accounting principles by using the double-entry accounting method to complete an accounting cycle. Realistic accounting simulations are completed in each course. Students who finish the program will be better prepared to make economic decisions that affect a business, community, and themselves.

### **ACCOUNTING 1 A – COURSE 4511**

### **ACCOUNTING 1 B – COURSE 4512**

Grades: 10, 11, 12

Prerequisite: None

This class introduces students to the manual and computerized accounting skills used in a small business, organized as a proprietorship or a corporation. Students will learn duties that assist the accountant in recording, sorting, and filing financial data such as: journalizing and posting transactions; reconciling a bank statement; completing a worksheet; preparing financial statements; determining adjusting and closing entries; and implementing petty cash and payroll procedures. Emphasis will also be placed on ethics and business writing.

### **ACCOUNTING 2 A – COURSE 4521**

### **ACCOUNTING 2 B – COURSE 4522**

Grades: 11, 12

Prerequisite: Accounting 1

Students will expand their knowledge of computerized accounting procedures with continued emphasis on corporate accounting practices, ethics, and business writing. Decision-making skills in adjustments and valuation (uncollectible accounts, plant assets, depreciation, inventory, notes, and accrued revenue and expenses), budgeting, departmental accounting systems, and payroll procedures will be emphasized. Accounting procedures related to partnerships, international and internet sales will also be introduced.

### **ACCOUNTING 3 A – COURSE 4531**

### **ACCOUNTING 3 B – COURSE 4532**

Grades: 12

Prerequisite: Accounting 1 and 2

Emphasis in this course is placed on various aspects of corporate, management, and manufacturing cost accounting. Students will participate in The Stock Market Game and learn the basics of investing. Accounting career opportunities will also be explored. Students will prepare an electronic portfolio as a final project.

### **BUSINESS MANAGEMENT TECHNOLOGY A – COURSE 4611**

### **BUSINESS MANAGEMENT TECHNOLOGY B – COURSE 4612**

Grades: 10, 11, 12

Prerequisites: Online Experience A and B

Are you interested in owning your own business, working in business management, pursuing a career in human resource management, finance, marketing, communications or accounting; then this is the course for you. Business Management & Technology (BMT) students will gain practical experience in all aspects of today's technology driven global business environment. This course emphasizes the very foundation of all aspects of business. All business activities revolve around business management. Have you ever wondered how a company makes decisions about hiring and paying employees, determining what products to make or how a company determines when to expand or how a company makes a profit or breaks-even; then BMT is the course for you. No matter where you plan to work or go to college, BMT will give you an edge over the competition by developing your leadership, computer, decision making, creative thinking, business ethics, teamwork and problem solving skills. These are skills that will open

new opportunities for students in the business world and college. **All** business decisions are made from the data we work with in BMT and everyone needs the skills we build. This course builds *survival skills* that fine tune your time management, written communication, interpersonal and technology knowledge. Students will learn how decisions are made based on that all-important company 'bottom line'. Real-life business simulations and case studies are used to show how companies collect and use financial, market research, and product data. This course teaches students how to use business models to make decisions.

Students will gain intermediate and advanced MS Office skills used in colleges and businesses today. Most colleges require students to have MS Office and digital technology skills, regardless of the degree pursued. This course will not only prepare students for college but also entry-level job placement. Students will learn the most up-to-date digital communication tools, social networking sites, file management, and cloud computing methods.

Students are encouraged to participate in Business Professionals of America (see BHS Activity Catalog)

**ADVANCED BUSINESS MANAGEMENT TECHNOLOGY A – COURSE 4621**  
**ADVANCED BUSINESS MANAGEMENT TECHNOLOGY B – COURSE 4622**

Grades 11, 12

Prerequisite: Business Management Technology A and B

Students who complete the Business Management and Technology program will have taken both Business Management & Technology and Advanced Business Management & Technology.

Students taking this class are expected to utilize the skills learned in Business Management & Technology and be able to work in a self-starting environment using case studies, business simulations and teamwork. Students will be expected to take their skills to 'the next level'.

Each Advanced Business Management & Technology student will be expected to create a digital portfolio as a capstone project that includes a clearly written resume, personal mission statement, clear set of documented goals, documented plans to reach the goals and any industry certifications earned during the course of the program. Advanced BMT students will be expected to accept the challenge of attaining an industry certification and a work based learning experience. Many Advanced BMT students have been placed in entry-level jobs in the community. Students have secured these jobs as a direct result of taking the BMT classes.

**Industry Certifications:** BMT students have the opportunity to gain the necessary skills for earning MOS (Microsoft Office Specialist) certification and IC3 certification which more and more colleges are requiring. Also students who complete the BMT program will be taking the 'General Management' NOCTI certification test. [http://www.nocti.org/PDFs/JobReady/1103\\_General\\_Management.pdf](http://www.nocti.org/PDFs/JobReady/1103_General_Management.pdf)  
This state approved technical competency assessment provides successful students with a nationally recognized certification.

Students are encouraged to participate in Business Professionals of America (see BHS Activity Catalog)

**INTERNATIONAL BUSINESS – COURSE 4714**

Grades: 11, 12

Prerequisite: 1 term computer experience recommended. World language background helpful, but not necessary.

International trade is rapidly growing and exciting! This course is designed for the student who has a strong interest in business/international business. Time will be spent exploring the culture, history, key business phrases and differences/similarities of business practices of several countries. Students will learn international business operations. Membership in the Business Professionals of America Club is encouraged. (Areas emphasized include the following: Basic Economics, Government Roles, US and World Economy, Importing/Exporting and Trade Relations, International Career Planning, Current Affairs, International Marketing, and Culture Influences on Global Business.)

**MARKETING A – COURSE 4681****MARKETING B – COURSE 4682**

Grades: 10, 11, 12

Prerequisite: Some computer and internet knowledge.

Marketing develops future leaders for marketing through learning fundamentals of retail, wholesale, and service selling. Marketing focuses on enabling students to develop the knowledge, skills, and abilities needed in marketing jobs at the entry level.

Areas emphasized include the following: Marketing Basics, Salesmanship, DECA, Business Basics, Selling Techniques, Pricing, Merchandising Techniques, Promotion, Fundamentals of Retail, Personality Development, Wholesale and Service Selling, and Human Relations.

**SPORTS AND ENTERTAINMENT MARKETING A – COURSE 4691****SPORTS AND ENTERTAINMENT MARKETING B – COURSE 4692**

Grades: 11, 12

Prerequisite: Marketing A/B

Sports & Entertainment Marketing enables the students to actively participate in sports & entertainment activities through organizing and managing sporting and entertainment events for the senior high school athletic teams and special events. The concepts learned in Marketing are used and fine-tuned. In class projects help reinforce concepts learned through in class discussions, and class work.

Areas emphasized include the following: Marketing Information, Fashion Merchandising, Product Planning, Tourism Marketing, Human Resources, Promotion and Pricing, DECA, Risk Management, Marketing Information Management, and Advanced Economics.

**ENTREPRENEURSHIP A – COURSE 4701****ENTREPRENEURSHIP B – COURSE 4702**

Grades: 12

Prerequisite: None

Entrepreneurship enables students to work directly with area businesses promoting their products and services using a variety of computer software, and creative imagination. The students will learn such skills as teamwork, interpersonal communication, and what it takes to manage and run a business. Co-op related experience at the job site are available and encouraged for qualified students in Grade 12.

During first term, this instructional program incorporates small business ownership and details the management functions, policies, and procedures characteristic of small business. Second term this course incorporates small business ownership to prepare individuals to form and operate small business enterprises (including franchise operations) for the purpose of marketing a product line. Co-op related experience at the job site is available and encouraged for qualified students in Grade 12.

Areas emphasized include the following: Human Relations, Pricing, Economics, Product Planning, Business Basics, Risk Management, Management, Promotion, DECA, and Marketing Basics.

**ONLINE EXPERIENCE A – COURSE 4821**

Grades: 9, 10, 11, 12

Prerequisite – None

This course is designed to give students practical experience using microcomputer and the internet as occupational tools in order to complete a variety of office and business-related tasks and simulations. Students will learn beginning to moderate skills in file management, email, internet use, word processor, electronic spreadsheet, and presentation programs as applied in the workplace and their personal lives. Also, components of the WorkKeys: Applied Math, Reading for Information and Business Writing will be emphasized. **A minimum of 12 hours will be spent fulfilling part of Online Learning Experience requirements in addition to Michigan Educational Technology Standards and Expectation requirements.**

### **ONLINE EXPERIENCE B – COURSE 4822**

Grades: 9, 10, 11, 12

Prerequisite – None

This course is the 2<sup>nd</sup> level of the Online Experience. It is designed to give students more practical experience using microcomputer and the internet as occupational tools in order to complete a variety of office and business related tasks and simulations. Students will learn more advanced skills in word processing, electronic spreadsheet, and presentation programs in addition to beginning to moderate skill level in database software and integration. Continued emphasis in WorkKeys: Applied Math, Reading for Information, and Business Writing, will be utilized. Microsoft Office Certification is also an option for students. Each Certification exam fee is \$48. **After completing both Online Experience A and B, students will have fulfilled all of the Online Learning Experience requirements in addition to Michigan Educational Technology Standards and Expectation requirements.**

### **WEB PAGE DESIGN 1 – COURSE 4834**

Grades: 10, 11, 12

Prerequisite: One term computer experience or instructor's signature.

This is an advanced computer course designed to give students the knowledge and skills necessary to develop and maintain web pages that are: 1) navigationally efficient; 2) effectively convey information; and 3) appealing to the user. Students will receive a solid foundation in tools, technologies, and concepts needed to begin designing web pages that not only look great, but work. Students will learn to design web pages that could meet a variety of needs for commercial and academic purposes. The course will provide a strong foundation in HTML programming and progress to cover automated web-authoring software use. Membership in Business Professionals of America (BPA) is encouraged.

### **WEB PAGE DESIGN 2 – COURSE 4836**

Grades: 10, 11, 12

Prerequisite: Web Page Design 1

An advanced Web Page Design class designed to give students knowledge and skills necessary to sell products and services using web sites and the Internet. Web Page Design skills combined with effective marketing techniques would be used to create effective, affective, and efficient commercial B-to-B web sites. Students explore surveying the competitive environment online, ethics of doing business online and protecting consumer privacy online. Membership in the Business Professionals of America (BPA) is encouraged.

### **COMPUTERIZED GRAPHIC AND LAYOUT DESIGN 1 – COURSE 4844**

Grades: 10, 11, 12

Prerequisite: One term computer experience or instructor's signature.

This is an advanced computer course designed to give students the knowledge and skills in the field of graphic design, technical writing and desktop publishing. Students will use several design Adobe Macromedia Professional applications such as InDesign, Illustrator, Photoshop, Bridge, and Adobe Live Paint to learn the basics of artwork, graphic design, editorial decisions, and color and type design. Students should bring their artistic talents to this class and watch your ideas transform into digital masterpieces. Students will learn to use various graphic design tools such as Wacom Bamboo digital drawing tablets and Wacom Inkling digital drawing pens

Students are encouraged to participate in Business Professionals of America (see BHS Activity Catalog)

## **COMPUTERIZED GRAPHIC AND LAYOUT DESIGN 2 – COURSE 4846**

Grades: 10, 11, 12

Prerequisite: Computerized Graphic and Layout Design 1

A second-level course designed to give students advanced skills and knowledge in the field of computerized graphic design and desktop publishing. Students will create a variety of business documents and original graphic art designs using Adobe Photoshop, Illustrator, and InDesign software. Students who complete the Graphic and Layout Design program often find entry-level graphic design jobs in the community. Also students will be given the opportunity to compete in several graphic design events that could lead to scholarships.

Students are encouraged to participate in Business Professionals of America (see BHS Activity Catalog)

## **ANIMATION – COURSE 4850**

Grades 10, 11, 12

Prerequisite: One computer experience class such as Online Experience A and Online Experience B.

This is an advanced computer course designed to give students the knowledge and skill in creating computer animations. Students will design and publish a variety of animations such as public service announcements, commercials, web ads, and movie shorts using Adobe Photoshop and Flash programs.

## **COMPUTER SCIENCE 1 – COURSE 4914**

Grades: 10, 11, 12

Prerequisite: Completion of Geometry and at least enrolled in an additional math class (Algebra 2, Pre-Calculus, or Calculus). Recommend 1 term of Online Experience A and Online Experience B or equivalent.

This course is designed to introduce computer programming through a variety of programming languages. The course has an overview of microcomputer systems and different programming languages, using and developing algorithms, the use of variables in programming, functions used in programming, Boolean algebra and the “if” selection structure, and the repetition structure.

Students are encouraged to participate in Business Professionals of America (see BHS Activity Catalog)

## **COMPUTER SCIENCE 2 – COURSE 4924**

Grades: 10, 11, 12

Prerequisite: Computer Science 1

This course continues with an expansion on topics from Computer Science 1. The course covers sequential access files, arrays, two-dimensional arrays, sorting, searching, control breaks, classes and an introduction to game programming. Students are expected to work independently and in a team environment. Students will also be expected to utilize various industry social networking sites and blogs.

Students are encouraged to participate in Business Professionals of America (see BHS Activity Catalog)

## **ENGLISH DEPARTMENT**

**HONORS ENGLISH 9, 10, 11** (See Honors Section) - **AP ENGLISH** (See AP Section)

### **ENGLISH 9 A - COURSE 0111**

### **ENGLISH 9 B - COURSE 0112**

Grade: 9

Prerequisite: None

This class integrates reading, writing, listening, and speaking to increase literacy in its approach to language arts instruction. Freshmen will read books from several genres and time periods, in addition to the Holt Rinehart Winston anthology, to increase their understanding of literature, especially through the study of literary elements. They will engage in writing-to-learn activities and write processed compositions, including a research paper, to improve the clarity, logic, and vitality of their writing. Grammar study will review the basic parts of speech as well as phrases and clauses.

### **ENGLISH 10 A - COURSE 0141**

### **ENGLISH 10 B - COURSE 0142**

Grade: 10

Prerequisite: English 9

This class integrates reading, writing, listening, and speaking to increase literacy in its approach to language arts instruction. Sophomores will read books from several genres and time periods in addition to the Holt Rinehart Winston anthology to increase their understanding of literature, especially through the study of literary elements. They will engage in writing-to-learn activities and write processed compositions, including a research paper, to improve the clarity, logic, and vitality of their writing. Grammar and vocabulary development are integral parts of the curriculum.

### **ENGLISH 11 A - COURSE 0171**

### **ENGLISH 11 B - COURSE 0172**

Grade: 11

Prerequisite: English 10

This class integrates reading, writing, listening, and speaking in its approach to language arts instruction. Students will read a variety of literature in various genres to increase their understanding of literature, especially through their study of literary elements. They will engage in writing-to-learn activities, writing a minimum of two processed essays per term. Grammar and writing conventions will be taught and adhered to. Juniors are expected to write with relatively few errors in usage, spelling, and grammar. Outside reading may be required.

### **ENGLISH 12 A - COURSE 0201**

### **ENGLISH 12 B - COURSE 0202**

Grade: 12

Prerequisite: English 11

This course offers students the opportunity to sharpen their writing and speaking skills to prepare them for the workforce. Students will read a variety of novels, plays, short stories, poems, and nonfiction. Various writing assignments will enhance this class, and students will be required to write a processed research paper.

### **COLLEGE PREP ENGLISH A - COURSE 0231**

### **COLLEGE PREP ENGLISH B - COURSE 0232**

Grade: 12

Prerequisite: English 11

This course is designed for the two-year or four-year college-bound student who has achieved a B average or better in previous English classes. World and British literature is featured with extensive writing exercises. A research paper is required.

**SPEECH AND THEATRE 1 A - COURSE 0251**  
**SPEECH AND THEATRE 1 B - COURSE 0252**

Grades: 9, 10, 11, 12

Prerequisite: None

The student will participate in various speaking exercises including: informative, persuasive, or entertainment speeches, group panel discussions, conversation, as well as impromptu and extemporaneous speeches. Beginning theater skills are taught, such as pantomime, oral interpretation, stage movement, and improvisation, along with an introduction to technical aspects of the theater. This course is an elective and cannot replace required English courses to meet graduation requirements.

**SPEECH AND THEATRE 2 A - COURSE 0261**  
**SPEECH AND THEATRE 2 B - COURSE 0262**

Grades: 10, 11, 12

Prerequisite: Speech and Theater 1

The course will offer training in advanced speaking skills, acting, and theater science study. This course is an elective and cannot replace required English courses to meet graduation requirements.

**WRITING FOR PUBLICATION YEARBOOK 1 A - COURSE 0271**  
**WRITING FOR PUBLICATION YEARBOOK 1 B - COURSE 0272**

Grades: 9, 10, 11, 12

Prerequisite: This is a writing intensive class. Interested students need their English teacher's signature and must submit a writing sample.

This course is open high school students interested in being a part of our yearbook staff. The first part of Term 1 will be spent learning the basic skills necessary to create an award winning yearbook. Writing in correct journalistic style and photography will be covered. Computer skills will include word processing and desktop publishing. Students will learn both Adobe InDesign and Adobe Photoshop programs, standards in the publishing world. Students will be using these skills to create layouts for the yearbook and the final publishing of the yearbook

**WRITING FOR PUBLICATION YEARBOOK 2 A - COURSE 0281**  
**WRITING FOR PUBLICATION YEARBOOK 2 B - COURSE 0282**

Grades: 10, 11, 12

Prerequisite: B or better in Writing for Publication Yearbook 1

This class is open only to students who have completed Yearbook 1 or were a member of last year's yearbook staff. Students will be involved in the planning and production of the yearbook as well as the creation of layouts. They will also be responsible for ad sales and design. Editor positions are possible in this class. Second year students will learn more advanced skills in Photoshop and PageMaker.

**WRITING FOR PUBLICATION YEARBOOK 3 A – COURSE 0291**  
**WRITING FOR PUBLICATION YEARBOOK 3 B – COURSE 0292**

Grades: 11, 12

Prerequisite: B or better on Writing for Publication Yearbook 2

This class is for third and fourth year students who have a serious interest in yearbook. They will work in the same class as the Yearbook 2 students. Most editors will come from this class. Advanced students will make major decisions concerning cover, theme, and section design. They also will be responsible for the most challenging layout designs.

**WRITING FOR PUBLICATION NEWSPAPER 1 A – COURSE 0311**  
**WRITING FOR PUBLICATION NEWSPAPER 1 B – COURSE 0312**

Grades: 9, 10, 11, 12

Prerequisite: Interested students need their English teacher's signature and must submit a writing sample.

This course is open to students interested in being a part of our newspaper staff. Students will learn skills necessary to create an award-winning newspaper. Writing in correct journalistic style and photographic skills will be covered. Computer skills will include word processing and desktop publishing. Students will become proficient in the Adobe InDesign programs, standards in the publishing world. Students will use these skills to write stories and create layouts for the newspaper.

**WRITING FOR PUBLICATION NEWSPAPER 2 A – COURSE 0321**  
**WRITING FOR PUBLICATION NEWSPAPER 2 B – COURSE 0322**

Grades: 10, 11, 12

Prerequisite: B or better in Writing for Publication Newspaper 1

This class is open only to students who have completed Newspaper 1 or were a member of last year's newspaper staff. Students will be involved in the planning and production of the newspaper as well as the creation of layouts. They will also be responsible for ad sales and design. Editor positions are possible in this class. Second year students will learn more advanced skills in Photoshop and PageMaker.

**WRITING FOR PUBLICATION NEWSPAPER 3 A – COURSE 0331**  
**WRITING FOR PUBLICATION NEWSPAPER 3 B – COURSE 0332**

Grades: 11, 12

Prerequisite: B or better in Writing for Publication Newspaper 2

This class is for third and fourth year students who have a serious interest in newspaper. They will work in the same class as the newspaper two students. Most editors will come from this class. Advanced students will make major decisions concerning section design, story assignments and editorial policy. They also will be responsible for the challenging and in-depth stories.

**MYTHOLOGY – COURSE 0376**

Grades: 9, 10, 11, 12

Prerequisite: None

This course introduces students to ancient mythology with an emphasis on Greek and Roman traditions. It considers how these myths were shaped by these cultures and the role of these myths in Western society, including their place in contemporary Western life. Students will read, discuss, and write about literature and other artistic media.

**CREATIVE WRITING – COURSE 0377**

Grades: 11, 12

Prerequisites: Completion of English 9 and English 10

This course in creative writing will focus on the writing of short stories and poetry. Students will write in both forms and will create a portfolio of their best work as a capstone to this class. The course will also be a survey of literature that demonstrates exemplary writing styles. This is a writing intensive class that will require critiquing the work of fellow students and will help students develop keen revision techniques. Students will learn how to develop meaningful characters, imagery, diction, plots, settings, and other techniques of effective creative writing.

## **FAMILY AND CONSUMER SCIENCE DEPARTMENT**

### **FOOD SERVICE 1 A – COURSE 5611**

### **FOOD SERVICE 1 B – COURSE 5612**

Grades: 11, 12

Prerequisite: Basic Foods & Nutrition Science or Exploring Foods & Nutrition Science

This course is designed for students interested in the hospitality industry. The students run the Silver Spoon Cafe restaurant twice a week during the second term.

Areas emphasized include: Careers, Catering, Cost Control, Customer Service, Equipment, Food Service Industry, Napkin Folding, Promotions, Quantity Control, Safety, Sanitation, Table Service, and Various Cookery Techniques.

### **BASIC FOODS & NUTRITION SCIENCE – COURSE 5624**

Grades: 9, 10, 11, 12

Prerequisite: None

This course stresses basic food and nutrition skills that students can use in a variety of settings and situations.

Areas emphasized include: Beverages, Breakfast, Food Math, Food Preparation Skills, Foods and Fitness, Foods and Sweets, Fruits/Vegetables, Grain, Products, Nutrient Groups, Quick Breads, Recipe/Ingredient Skills, Salads, Soups, Wellness.

### **EXPLORING FOODS & NUTRITION SCIENCE – COURSE 5634**

Grades: 9, 10, 11, 12

Prerequisite: None

This course stresses nutrition and food preparation skills which students can use in a variety of settings and situations.

Areas emphasized include: Carbohydrates, Cholesterol, Digestion, Fats, Food Math, Food Preparation Techniques, Foreign Cuisine, Minerals, Protein, and Vitamins.

### **PARENTING – COURSE 5644**

Grades: 9, 10, 11, 12

Prerequisite: None

This course covers the skills needed for the parenting of the infant from conception through the first year of life. Students experience important parenting skills through the use of the *Empathy Belly* and the *Baby Think It Over Dolls*.

Parenting issues addressed include;

- STI/AIDs
- Birth Defects
- Reproduction
- Pregnancy
- Labor
- Infant Care, Infant/Child Health
- Infant CPR
- Safety
- Expense of raising a baby

**FAMILY LIVING – COURSE 5654**

Grades: 10, 11, 12

Prerequisite: None

Why do my parents drive me crazy? What's the secret to a lasting, happy marriage? How will I ever be able to pay my bills if I have children? If you've ever asked yourself questions like these, this class is for you!

Areas emphasized include: Dating, Death and Dying, Decision Making, Divorce, Engagement, Marriage, Parenthood, Wedding Planning.

**CHILD DEVELOPMENT – COURSE 5648**

Grades: 9, 10, 11, 12

Prerequisite: None

This course covers the skills needed for the parenting of the child from ages one to six. Students will interact with children from each age group as part of this course. Parenting skills are taught throughout.

Areas emphasized include: Birth Order, Children's Play Activities, Discipline, Development (Physical, Social and Intellectual), Reading and Media, Safety.

**CRAFTS – COURSE 5664**

Grades: 9, 10, 11, 12

Prerequisite: None (Fee charged for each project)

Students will learn creative hand skills. Areas emphasized include:

Embroidery/crewel samples, Haan Crafts Catalog (animal kits), Knitting and Crochet, Needle Arts, Seasonal Crafts, Wood Projects for Holidays (hearts, witches, bunnies, etc.).

**INTERIOR DECORATING 1 – COURSE 5674**

Grades: 10, 11, 12

Prerequisite: None

This course is for students interested in creating a pleasing home environment. Students will learn a variety of techniques to turn a dull room into a dynamic room! Students will work and complete their own portfolio in this class.

Areas emphasized include: Color Schemes, Decorating Ideas, Elements of Design, Furniture Styles, Interior/Exterior House Plans.

**INTERIOR DECORATING 2 – COURSE 5694**

Grades: 10, 11, 12

Prerequisite: Interior Decorating 1

Students will expand on knowledge gained in Interior Decorating 1 as well as explore new housing dilemmas and decorating techniques.

Areas emphasized include: Choosing Backgrounds, Current Design Trends, Finishing Touches, Furniture Construction, Home Construction, Home Maintenance, Lighting, Planning Work Spaces, Renting vs. Buying, Storage, and Textiles.

**CONSUMER AWARENESS – COURSE 5684**

Grades: 9, 10, 11, 12

Prerequisite: None

This is a course on consumerism. Students learn about consumer survival techniques needed in our world.

Areas emphasized include: Automobile Ownership, Consumer Movement, Credit, Financial Institutions, Financial Services, Fraud, Marketing Techniques, Money Management.

**RELATIONSHIPS – COURSE 5704**

Grades: 11, 12

Prerequisite: None

This class looks at the many roles and “Relationships” that people of all ages in our society have today. Our success in life is very dependent on how we interact with our family, peers, employers, and the many number of individual relationships we encounter in daily living. Gaining an understanding of these relationships can help to better prepare students when entering life after school.

Topics covered in this class include: Abstinence, Career Preparation, Communication, Decision-making, Families, HIV, AIDS, and other STDs, Parenting, Safer Choices, Types of Relationships, Wellness Practices.

## **WORLD LANGUAGE DEPARTMENT**

### **CONVERSATIONAL FRENCH – COURSE 4044**

Grades: 9, 10, 11, 12

Prerequisite: None

Students in this course will learn everyday French phrases and expressions taught orally through mimicry, commands, and storytelling. There will be minimal focus on grammar and composition, so the course will not meet the world language requirement for college admission. Open to any student.

### **FRENCH 1 A – COURSE 4011**

### **FRENCH 1 B – COURSE 4012**

Grades: 9, 10, 11, 12

Prerequisite: None

Students taking this course will acquire the basic language skills (listening, speaking, reading, and writing) in the target language. Instruction will be via dramatic and tape presentations, written exercises, oral drills, basic reading, audio visual aids and games. The students will gain an insight into the culture of French speaking countries through various activities including films, music, and experiences with foreign cuisine.

Student participation in the language classroom activities is essential. It is strongly recommended that students have a grade of a C or better in English courses before attempting the study of a world language.

### **FRENCH 2 A – COURSE 4021**

### **FRENCH 2 B – COURSE 4022**

Grades: 10, 11, 12

Prerequisite: French 1 – It is strongly recommended that students planning to take French 2 achieve a grade of C or better in French 1.

Students taking French 2 will further develop and improve the language skills of listening, speaking, reading, and writing through intensified grammar study and wider experiences in writing and verbalization. Readings will be selected from more advanced material. Students will participate in activities designed to promote cultural awareness. A second year of French is recommended for students planning on attending college.

### **FRENCH 3 A – COURSE 4031**

### **FRENCH 3 B – COURSE 4032**

Grades: 11, 12

Prerequisite: Completion of the previous language course with a grade of B or better or teacher recommendation.

Students in the regular third-year language classes will expand and develop their target language vocabulary through short readings, story-telling, and oral comprehension activities. Refinement of previously learned grammar will continue with wider practice, and new grammar concepts will be taught with emphasis on real-life situational use. Cultural experiences will enhance understanding of language and beginning literature. A third or fourth year of world language is recommended for students planning to attend selective colleges or universities.

**FRENCH 4 A – COURSE 4041**  
**FRENCH 4 B – COURSE 4042**

Grade: 12

Prerequisite: At least 3 years of previous language study with an A in French 3.

Students who elect this course will be working at the college level. The grammar, writing, literature, comprehension, and speaking components will be those that prepare the students for college placement tests. The teacher will conduct the class entirely in the target language, and students will be expected to communicate entirely in the target language.

**CONVERSATIONAL GERMAN – COURSE 4084**

Grades: 9, 10, 11, 12

Prerequisite: None

Students in this course will learn everyday German phrases and expressions taught orally through mimicry, commands, and storytelling. There will be minimal focus on grammar and composition, so the course will not meet the language requirement for college admission. Open to any student.

**GERMAN 1 A – COURSE 4051**  
**GERMAN 1 B – COURSE 4052**

Grades: 9, 10, 11, 12

Prerequisite: None

Students taking this course will acquire the basic language skills (listening, speaking, reading, and writing) in the target language. Instruction will be via dramatic tape presentations, written exercises, oral drills, basic readings, audio visual aids, and games. The students will gain an insight into the culture of German speaking countries through various activities including films, music, and experiences with foreign cuisine.

Student participation in the language classroom activities is essential. It is strongly recommended that students have a grade of C or better in English courses before attempting the study of a world language.

**GERMAN 2 A – COURSE 4061**  
**GERMAN 2 B – COURSE 4062**

Grades: 10, 11, 12

Prerequisite: German 1 - It is strongly recommended that students planning to take German 2 achieve a grade of C or better in German 1.

Students taking German 2 will further develop and improve the language skills of listening, speaking, reading, and writing through intensified grammar study and wider experiences in writing and verbalization. Presentations will be selected from more advanced material. Students will participate in activities designed to promote cultural awareness.

**GERMAN 3 A – COURSE 4071**  
**GERMAN 3 B – COURSE 4072**

Grades: 11, 12

Prerequisite: Completion of the previous language course with a grade of B or better or teacher recommendation

Students in the regular third-year language classes will expand and develop their target language vocabulary through short readings, storytelling, and oral comprehension activities. Refinement of previously learned grammar will continue with wider practice, and new grammar concepts will be taught with emphasis on real-life situational use. Cultural experiences will enhance understanding of language and beginning literature. A third or fourth year of world language is recommended for students planning to attend selective colleges or universities.

**GERMAN 4 A – COURSE 4081**  
**GERMAN 4 B – COURSE 4082**

Grade: 12

Prerequisite: At least 3 years of previous language study with an A in German 3.

Students who elect this course will be working at the college level. The grammar, writing, literature, comprehension, and speaking components will be those that prepare the students for college placement tests. The teacher will conduct the class entirely in the target language, and students will be expected to communicate entirely in the target language.

**CONVERSATIONAL SPANISH – COURSE 4404**

Grades: 9, 10, 11, 12

Prerequisite: None

This course emphasizes communication and proficiency through storytelling and reading. Emphasis will be on understanding before producing the target language. This course is designed for students who might have trouble in a traditional grammar based world language class. Students will be required to participate actively in acting out stories, reading, and developing their understanding and proficiency. This class is open to students who want to build a foundation before attempting Spanish 1 or students who have taken any Spanish and want to focus on communication.

**SPANISH 1 A – COURSE 4091**  
**SPANISH 1 B – COURSE 4092**

Grades: 9, 10, 11, 12

Prerequisite: None

Students taking this course will acquire the basic language skills (listening, speaking, reading, and writing) in the target language. Instruction will be via tape presentations, oral drills, written exercises, basic readings, audio visual aids, and games. The students will gain an insight into the culture of Spanish speaking countries through various activities including films, music, and experiences with foreign cuisine.

Student participation in the language classroom activities is essential. It is **strongly recommended** that students have a grade of C or better in English courses and a **solid understanding of English grammar** before attempting the study of a world language.

**SPANISH 2 A – COURSE 4101**  
**SPANISH 2 B – COURSE 4102**

Grades: 10, 11, 12

Prerequisite: It is recommended that students planning to take Spanish 2 achieve a grade of C+/B- or better in Spanish 1.

Students taking Spanish 2 will further develop and improve the language skills of listening, speaking, reading, and writing through **intensified grammar study** and wider experiences in writing and verbalization. Readings will be selected from more advanced material. Students will participate in activities designed to promote cultural awareness.

**SPANISH 3 A – COURSE 4111**  
**SPANISH 3 B – COURSE 4112**

Grades: 11, 12

Prerequisite: Completion of the previous language course with a grade of B or better or teacher recommendation

Students in the regular third-year language classes will expand and develop their target language vocabulary through short readings, story-telling, and oral comprehension activities. Refinement of previously learned grammar will continue with wider practice, and new grammar concepts will be taught with emphasis on real-life situational use. Cultural experiences will enhance understanding of language and beginning literature. A third or fourth year of world language is recommended for students planning to attend selective colleges or universities.

**SPANISH 4 A – COURSE 4131**

**SPANISH 4 B – COURSE 4132**

Grades: 11, 12

Prerequisite: Spanish 3 or permission of instructor after Spanish 2

This course is the preparation for studying Spanish at the college level. Emphasis will be placed on refining understanding and usage of grammar in order to do well on college placement tests, and reading comprehension and essay composition for work at the college level. Students will read short stories, Spanish novellas, plays, and nonfiction work in Spanish, and will write full length essays.

**SPANISH CULTURE – COURSE 4304**

Grades: 9, 10, 11, 12

Prerequisite: None

Students in this course will explore various aspects of the cultures of Spanish-speaking countries. The broad facts of history and geography, industry, music, art, food, dance, and special traditions of Spain, Mexico, and Spanish-speaking nations will be explored along with pertinent expressions in the Spanish language. Open to any student. This course does not fulfill the language requirement for college admission.

# **INDUSTRIAL TECHNOLOGY**

## **BROADCASTING TECHNOLOGY**

### **GENDER EQUITY**

Radio and Television classes are available for both males and females.

### **RADIO AND TELEVISION BROADCASTING FUNDAMENTALS – COURSE 8245**

Grades 9, 10, 11, 12

Prerequisite: None

This is an introduction into two of the most powerful medias of information and the influence on its audience they create. Radio will cover how to handle being a radio DJ by doing broadcasts on our campus radio station WMLZ-LP, Z-108 (107.9 FM) along with streaming worldwide. Students will produce radio commercials, cover promotions and the history and respect for radio. FCC guidelines will be enforced. Television will cover camera work, editing, lighting and give the students a respect for TV production. The history of television and FCC guidelines will be enforced.

### **INTERMEDIATE RADIO AND TELEVISION BROADCASTING A – COURSE 8250**

### **INTERMEDIATE RADIO AND TELEVISION BROADCASTING B – COURSE 8251**

### **INTERMEDIATE RADIO AND TELEVISION BROADCASTING C – COURSE 8252**

Grades: 10, 11, 12

Prerequisite: Radio and Television Broadcasting Fundamentals, along with Instructor's signature.

Intermediate Radio and Television Broadcasting builds on the principles learned in Radio and Television Broadcasting Fundamentals. The class serves to allow the student to expand his or her area of expertise by offering a choice of various projects. The students will be responsible for completing their own project each term while also being involved in many team projects. The team projects will include live and taped radio broadcasts. Educational Access Channel television programs including public affairs programming, sports programming, special interest programming, and the digital environment. Periodic class sessions will be devoted to "Current Technology and Events". These in-class discussions and presentations will encourage students to stay alert to rapidly developing technology.

### **ADVANCED RADIO AND TELEVISION BROADCASTING A – COURSE 8260**

### **ADVANCED RADIO AND TELEVISION BROADCASTING B – COURSE 8261**

### **ADVANCED RADIO AND TELEVISION BROADCASTING C – COURSE 8262**

Grades: 11, 12

Prerequisite Radio and Television Broadcasting Fundamentals and Instructor's signature.

This advanced-level class will operate more as a preparation for the workplace than as a traditional classroom environment. By the time students reach this class, they are expected to be proficient at operating all the equipment and software in the program. They will also be proficient at teaching others on the equipment. They will be, therefore, tasked and graded in supervisory roles. In addition, the students at this level will be required to develop, in teams, their own "programming". The programming will be aired on the Educational Access Channel and the school radio station. Advanced subjects on news reporting, videography, editing, radio actualities, commercials, and multimedia projects will be taught as well.

**RADIO AND TELEVISION PRODUCTION A – COURSE 8270**  
**RADIO AND TELEVISION PRODUCTION B – COURSE 8271**  
**RADIO AND TELEVISION PRODUCTION C – COURSE 8272**

Grades 11, 12

Prerequisite: Intermediate or Advanced Radio and Television Broadcasting A, B, C

This advanced-level class will operate as more of a preparation for the workplace than as a traditional classroom environment. Class projects and the full development of real-world projects will be stressed. Employment and rules will be reviewed. After school projects will be involved in this course.

## **AUTOMOTIVE TECHNOLOGY**

### **GENDER EQUITY**

Automotive classes are available for both males and females.

### **AUTOMOBILE FUNDAMENTALS A – COURSE 8318A**

### **AUTOMOBILE FUNDAMENTALS B – COURSE 8318B**

Grades 9, 10, 11, 12

Prerequisite: None

This course will introduce students to the automobile and the automotive industry. This class is designed to provide students with the opportunity to explore the basics of automobile construction, operation, and maintenance. Students will combine class work, online work, and lab work to explore career opportunities in the automotive industry. This course also benefits students who are interested in learning how to maintain their own automobile. Successful completion of this course is required for advancement into additional automotive technology courses.

### **NATEF BRAKES A – COURSE 8320A**

### **NATEF BRAKES B – COURSE 8320B**

Grades 10, 11, 12

Prerequisite: Automobile Fundamentals and Instructor approval.

This course will introduce students to automobile brake systems including antilock brakes. The class is designed to provide students with hands on opportunity to service and maintain a variety of automobile brake systems. Students will combine class work, online work, and lab work to prepare for a career in the automotive industry. This course also benefits students who are interested in learning how to maintain their own automobile. **The course is an Automotive Service Excellence (ASE) certified training program. The focus will be on automotive brake systems.**

### **NATEF STEERING AND SUSPENSION SYSTEMS A – COURSE 8322A**

### **NATEF STEERING AND SUSPENSION SYSTEMS B – COURSE 8322B**

Grades 10, 11, 12

Prerequisite: Automobile Fundamentals and Instructor approval.

This course will introduce students to automobile steering and suspension systems including wheel alignment. This class is designed to provide students with hands-on opportunity to service and align a variety of automobile steering and suspension systems. Students will combine class work, online work, and lab work to prepare for a career in the automotive industry. This course also benefits students who are interested in learning how to maintain their own automobile. **The course is an Automotive Service Excellence (ASE) certified training program. The focus will be on automotive steering and suspension systems.**

**NATEF AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS A – COURSE 8324A**  
**NATEF AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS B – COURSE 8324B**  
**NATEF AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS C – COURSE 8324C**

Grades 11, 12

Prerequisite: Automobile Fundamentals and Instructor approval.

Offered 2013-14 school year

This course will introduce students to automobile electrical and electronic systems including computer controlled systems. This class is designed to provide students with hands-on opportunity to service and repair a variety of automobile electrical systems. Students will combine class work, online work, and lab work to prepare for a career in the automotive industry. This course also benefits students who are interested in learning how to maintain their own automobile. **The course is an Automotive Service Excellence (ASE) certified training program. The focus will be on automotive electrical and electronic systems.**

**ADVANCED AUTOMOTIVE PRINCIPLES A – COURSE 8326A**

**ADVANCED AUTOMOTIVE PRINCIPLES B – COURSE 8326B**

Grades 11, 12

Prerequisite: Automobile Fundamentals and one of the following: NATEF Brakes, NATEF Steering and Suspension, or NATEF Electrical and Electronic Systems and Instructor approval.

Offered 2012-13 school year

This spring term only course is designed to provide students with the opportunity to participate in automotive engine performance activities and the repair of automobile heating and air conditioning systems. Students will combine class work, online work, lab work, and visits to local race tracks to prepare for a career in the automotive industry. **The course is an Automotive Service Excellence (ASE) certified automotive heating and air conditioning training program.**

## **CONSTRUCTION TECHNOLOGY**

### **GENDER EQUITY**

Construction classes are available for both males and females.

### **CONSTRUCTION FUNDAMENTALS A – COURSE 8300A**

### **CONSTRUCTION FUNDAMENTALS B – COURSE 8300B**

Grades 9, 10, 11, 12

Prerequisite: None

This class will allow students to prepare for a career in construction. The students will create, design, and construct selected projects while learning many basic wood skills and techniques. Emphasis is placed on shop safety and use of power equipment. Areas emphasized: layout and design, wood joints, scroll work, fasteners, finishes, hand tools, power tools, building materials, and career awareness. Students wishing to take more construction classes are required to take Construction Fundamentals.

### **CONSTRUCTION 1 A – COURSE 8199**

### **CONSTRUCTION 1 B – COURSE 8200**

### **CONSTRUCTION 1 C – COURSE 8201**

Grades 10, 11, 12

Prerequisite: Construction Fundamentals

This class will look at different trades that are involved in constructing a house. It will include surveying and foundations and students will gain experience as a carpenter constructing floors and walls. Interior finish work such as insulating, drywalling, painting and trim work will be done.

**CONSTRUCTION 2 A – COURSE 8209**  
**CONSTRUCTION 2 B – COURSE 8210**  
**CONSTRUCTION 2 C – COURSE 8211**

Grades 11, 12

Prerequisite: Construction 1

Areas emphasized in residential construction include building ceilings, rafters, roofing, window and siding installation, and decking. Students will explore green technologies that are being incorporated into modern home building. In civil construction, students will learn about the building of roads and bridges.

**CONSTRUCTION 3 A – COURSE 8219**  
**CONSTRUCTION 3 B – COURSE 8220**  
**CONSTRUCTION 3 C – COURSE 8221**

Grade 12

Prerequisite: Construction 2

This is an independent study class that will allow each student to pick a career pathway and explore it in greater detail. Areas of study include preconstruction residential building, civil construction, skilled trades, green technology, and heavy equipment. A variety of careers and the skills needed for those careers will be looked at. Business management skills will also be discussed.

**CABINETMAKING 1 A – COURSE 8312A**  
**CABINETMAKING 1 B – COURSE 8312B**

Grades 10, 11, 12

Prerequisite: Construction Fundamentals

This class is designed for the student who wants to develop skills in the finish cabinetry area. Emphasis will be placed on the following: advanced design and plan development, carcass construction, advanced joinery and lathe turning. Projects include an end table, night stand and bowl.

**CABINETMAKING 2 A – COURSE 8314A**  
**CABINETMAKING 2 B – COURSE 8314B**

Grades 11, 12

Prerequisite: Construction Fundamentals and Cabinetmaking 1

This class is for students who wish to further their woodworking skills. Areas to be emphasized include: raised panel doors, natural and synthetic materials, and furniture joinery.

**CABINETMAKING 3 A – COURSE 8316A**  
**CABINETMAKING 3 B – COURSE 8316B**

Grades 12

Prerequisite: Cabinetmaking 2

Got sawdust for brains? Are you someone who can't get enough of woodworking? This class allows students to advance their woodworking skills. Emphasis will be placed on improving your skills and exploring new wood processes.

**HOME MAINTENANCE – COURSE 8224**

Grades 10, 11, 12

Prerequisite: None

This one-term class is designed to teach future homeowners some basic maintenance of their home. The more knowledge a homeowner has, the better he/she will be prepared to handle problems that arise in the future. Areas of study will include, but not limited to, hands-on experiences with electrical, telephone and computer cable installation, drywalling, painting, locks, hinges, deadbolts, and furniture repair.

## **DRAFTING AND DESIGN TECHNOLOGY**

### **GENDER EQUITY**

Drafting and Design classes are available for both males and females.

### **ENGINEERING & ARCHITECTURE FUNDAMENTALS A – COURSE 8328A**

### **ENGINEERING & ARCHITECTURE FUNDAMENTALS B – COURSE 8328B**

Grades 9, 10, 11, 12

Prerequisite: None

This course will introduce students to the world of engineering and architecture. Creative sketching and drawing skills will be developed. Students will learn both function and beauty of engineering and architectural features. Students will sketch single view objects, houses, floor plans including 3-dimensional drawing. The final project in this course is to creatively design a product such as a car or house and build a model using the skills developed in this class. .

### **ARCHITECTURAL DESIGN A – COURSE 8330A**

### **ARCHITECTURAL DESIGN B – COURSE 8330B**

Grades 10, 11, 12

Prerequisite: Engineering and Architecture Fundamentals or teacher approval

Architectural Design A/B will be a continuation of the exploring architecture portion of the Engineering and Architecture Fundamentals A/B course. The focus will be on the creative design of residential architecture with added emphasis on the engineering portion of architecture such as the foundation, details, and sections. Students will be introduced to CAD (Computer-Aided Drafting). The final project in this course is to select, design, draw, and build a model house.

### **ENGINEERING DESIGN A – COURSE 8332A**

### **ENGINEERING DESIGN B – COURSE 8332B**

Grades 10, 11, 12

Prerequisite: Engineering and Architecture Fundamentals or teacher approval

This course will be a continuation of the exploring engineering portion of the Engineering and Architecture Fundamentals A/B course. The focus will be on the geometric designs of engineering. Students will learn the geometric construction of engineering designs such as hexagons, pentagon, tangents to circles, radii, arcs, curves, and other geometric figures. Engineering Design A/B students will be introduced to CAD (Computer-Aided Drafting). Students will learn engineering print reading, arrangement of views, and 3-dimensional drawing.

### **COMPUTER-AIDED DRAFTING & DESIGN A – COURSE 8334A**

### **COMPUTER-AIDED DRAFTING & DESIGN B – COURSE 8334B**

Grades 11, 12

Prerequisite: Engineering & Architecture Fundamentals and Architectural Design and/or Engineering Design or teacher approval.

Students will use their introductory CAD experience and advance to engineering and architectural print reading, design problem solving, and complete engineering and architectural working drawings. This course is essential for all students interested in engineering and/or architecture.

### **3-DIMENSIONAL ARCHITECTURAL DESIGN A – COURSE 8336A**

### **3-DIMENSIONAL ARCHITECTURAL DESIGN B – COURSE 8336B**

Grades 11, 12

Prerequisite: Engineering & Architecture Fundamentals and Architectural Design and/or Engineering Design or teacher approval.

Students will use their drafting, design, and CAD skills to develop 3-dimensional drawings of houses, cars, roller-coasters, and architectural and mechanical components. Students will advance their skills to convert various engineering and architectural print views into 3-dimensional views.

### **MODEL DESIGN & BUILDING A – COURSE 8338A**

### **MODEL DESIGN & BUILDING B – COURSE 8338B**

Grades 11, 12

Prerequisite: Engineering & Architecture Fundamentals and Architectural Design and/or Engineering Design or teacher approval

Students will utilize their drafting and 3-dimensional design skills to design and build models. Students will choose a variety of designs and models such as roller coasters, houses, building, and other creative ideas. The emphasis of this course is to be able to design and draw a set of working drawings and build a model of it. Students will be able to see their drawings become a reality.

### **STRUCTURAL DESIGN & DETAILING A – COURSE 8340A**

### **STRUCTURAL DESIGN & DETAILING B – COURSE 8340B**

Grades 11, 12

Prerequisite: Engineering & Architecture Fundamentals and Architectural Design and/or Engineering Design or teacher approval.

This advanced course will offer students in depth challenges for problem solving. Students will learn formulas, mathematical functions and design components for gears, spurs, structural design & detail and basic strength of materials such as stress, strain, safety factors, and design safety. Students will utilize their CAD skills for design and calculations for problem solving. Students will choose to draw their designs on the drafting board or CAD.

## **MACHINE TECHNOLOGY**

### **GENDER EQUITY**

Machine technology classes are available for both males and females.

### **WELDING/FABRICATION A- COURSE 8000**

### **WELDING/FABRICATION B- COURSE 8001**

Grade : 9, 10, 11, 12

Prerequisite: None

Students will learn about ARC welding, MIG welding, flux cored welding, TIG welding and torch welding along with soldering and brazing processes. Students will use: hand tools, metal bending fixtures, pipe benders, metal cutting saws, plasma cutters and oxy-fuel torches to form and shape metal projects. Many modern production welding practices are covered through hands-on projects, textbooks and lectures. Students will use their newly formed skills to produce projects. Students will also explore the career options for welding.

### **CNC/ROBOTIC MANUFACTURING - COURSE 8005**

Grades: 10, 11, 12

Prerequisite: None

Are you interested in robotics? In this class we will explore what a robot is made of. Also the many different forms of motion and controls will be explored. Many of the different interfaces that are used in industry to control this advanced equipment, mechanical controls such as: hydraulics, pneumatics, stops, limits switches, stepper motors, motion transfers and various other aspects of control pieces used

in robotic manufacturing will be explored. Through lab project and various resources, students will gain a better understanding of the basic principles used in the CNC/Robotic field. Students will use programs such as Mastercam, to create programs for computer numerical controls, robotic languages will be explored and different forms of programming will be explored.

**MACHINE TECHNOLOGY 1 A – COURSE 8009**

**MACHINE TECHNOLOGY 1 B – COURSE 8010**

**MACHINE TECHNOLOGY 1 C – COURSE 8011**

Grades: 9, 10, 11, 12

Prerequisite: None

Have you ever wondered how an engine is machined or how just about anything else can be produced from metal? Then you need to be in this class. The student will explore the metal working field through many hands-on projects, lecture and book work. The students will become familiar with metal saws, mills, lathes, grinders, engravers, hand tools, welding equipment and computer controlled equipment used in many modern shops. Many students are given the opportunity to co-op with local employers after taking this course. Areas emphasized include the following: Shop Safety, Precision Machining, Bench Work, Power and Hand Tools, Metal Forming, Blueprint Reading, Metal Fasteners, Applied Math, Welding Safety.

Note: Students are allowed to take any section that is available even if a preceding section is missed.

**MACHINE TECHNOLOGY 2 A – COURSE 8019**

**MACHINE TECHNOLOGY 2 B – COURSE 8020**

**MACHINE TECHNOLOGY 2 C – COURSE 8021**

Grades: 10, 11, 12

Prerequisite: Machine Technology 1 and instructor's approval.

This is a more advanced course designed for students who successfully complete Machine Technology 1. Many co-op programs have been available and suggested for advanced students with instructor's approval. Mastercam software is introduced to students to design and create projects of an advanced level. Students will learn more advanced levels of tooling, fixtures and metallurgy used in industry and learn many techniques in producing metal working projects. Areas emphasized include the following: Shop Safety, Basic Metallurgy, CNC (Computer Numerical Control), grinding, welding, and advanced individualized projects. Students may enter projects in M.I.T.E.S. competition. Students are encouraged to compete in Skills USA machining technologies competitions. Note: Students are allowed to take any section that is available even if a preceding section is missed.

**MACHINE TECHNOLOGY 3 A – COURSE 8025**

**MACHINE TECHNOLOGY 3 B – COURSE 8026**

**MACHINE TECHNOLOGY 3 C – COURSE 8027**

Grades: 11, 12

Prerequisite: Machine Technology 1 and 2 with instructor's approval.

This class is for the student who is thinking of a career in the engineering or machining field. Machining processes and designs are deeply explored in this class. The use of Mastercam, and advanced technology used by industry will be explored and used to enable students to produce individualized projects. Students will be expected to design and produce a project, while looking at ways in which they can better the process of producing their project. Students will explore career goals and job skills needed for a career in industry. Job skills emphasized during this course are work ethics, hygiene of work area, proper workplace communications, resume writing and lifelong learning. Many students of the program at this level can be placed with local employers and are given the opportunity to have full time jobs and paid schooling after high school.

## **MATHEMATICS DEPARTMENT**

**HONORS ALGEBRA 2** (See Honors Section)  
**HONORS GEOMETRY** (See Honors Section)  
**HONORS PRE-CALCULUS** (See Honors Section)  
**AP CALCULUS** (See AP Section)  
**AP STATISTICS** (See AP Section)

### **ALGEBRA 1 A – COURSE 3021**

### **ALGEBRA 1 B – COURSE 3022**

Grades: 9, 10, 11, 12

Prerequisite: None

Algebra 1 is a course designed to provide the elementary foundation for higher level classes in mathematics. The student will develop the ability to reason abstractly using the following concepts: polynomials, inequalities, solving equations, linear and quadratic equations, exponents, and functions.

### **GEOMETRY A – COURSE 3031**

### **GEOMETRY B – COURSE 3032**

Grades: 9, 10, 11, 12

Prerequisite: Algebra 1

The goal of geometry is to acquaint students with basic geometric concepts as they relate to the field of mathematics. Students will be exposed to concepts in the following areas: components of logic, reasoning, formal proof, area, perimeter, and volume of various geometrical shapes; the properties of polygons including triangles, parallelograms, and trapezoids, develop spatial reasoning skills. Students will also develop skills with transformations and the relationship between figures.

### **COLLEGE PREP ALGEBRA 2 A – COURSE 3051**

### **COLLEGE PREP ALGEBRA 2 B – COURSE 3052**

Grades: 11, 12

Prerequisite: Algebra 1 and Geometry

This course will build on the concepts mastered in Algebra 1. The course covers topics such as linear, quadratic, rational, polynomial, trigonometric, exponential and logarithmic functions in addition to inequalities, sequences, and probability. This course is not considered an honors level course. This course is meant for students who have good math skills and don't mind moving at a fast pace.

### **ALGEBRA 2 A – COURSE 3055**

### **ALGEBRA 2 B – COURSE 3056**

### **ALGEBRA 2 C – COURSE 3057**

Grades: 11, 12

Prerequisite: Algebra 1 and Geometry

This course will build on the concepts mastered in Algebra 1. The course is spread out over three terms to help students who struggle with math and need to move at a slower pace. Students must complete all three trimesters of this course. The course covers topics such as linear, quadratic, rational, polynomial, trigonometric, exponential and logarithmic functions in addition to inequalities, sequences, and probability.

**PRE-CALCULUS A – COURSE 3071****PRE-CALCULUS B – COURSE 3072**

Grades 11, 12

Prerequisite: Algebra 2 with a C or better

Precalculus is a college preparatory course presenting topics that continue the study of linear, polynomial, exponential, trigonometric, logarithmic functions, conic sections, sequences and series. Additional topics include vectors, matrices, and polar graphing. It is strongly recommended that a student enrolled in Precalculus have at least a C average in Algebra 2.

**STATISTICS AND PROBABILITY A – COURSE 3524**

Grades: 11, 12

Prerequisite: Algebra 1 and Geometry

This one term course is designed to be an introduction to the field of statistics. Because today's technology makes statistics more accessible, it is important that students have an understanding of this subject and its many applications. This course will cover the basic concepts of statistics, including the normal curve, analyzing data with charts and graphs, elementary probability, and sampling techniques.

**STATISTICS AND PROBABILITY B – COURSE 3525**

Grades: 11, 12

Prerequisite: Statistics and Probability A

This one term course is designed to continue concepts learned in Statistics and Probability A. Because today's technology makes statistics more accessible, it is important that students have an understanding of this subject and its many applications.

**PERSONAL FINANCE A – COURSE 3526**

Grades: 11, 12

Prerequisite: Algebra 1 and Geometry

Personal finance is a subject that will affect all students for the rest of their lives, regardless of age, education level, or income. This course will prepare students for success in a fast paced global economy. It will teach students how to harness their spending power and plan for their future. Students will have a firm understanding of how the financial choices they make will affect their lives and the community. Personal Finance A focuses on an individual and the personal financial choices they make. Checking and saving accounts, interest rates, credit cards, loans and budgets will be addressed.

**PERSONAL FINANCE B – COURSE 3527**

Grades: 11, 12

Prerequisite: Personal Finance A

This course will prepare students for success in a fast paced global economy. Students will have a firm understanding of how the financial choices made in the business world affect the individual business, the community, and the global market. This class will help students make a successful transition into the adult workplace.

## **MUSIC DEPARTMENT**

### **FRESHMEN CHOIR A – COURSE 5500**

### **FRESHMEN CHOIR B – COURSE 5501**

### **FRESHMEN CHOIR C – COURSE 5502**

Grade: 9

Prerequisite: None

Students will learn the basics of music and singing good choral literature. Each student will begin to learn and develop the human voice through the use of correct vocal technique. Students will also be challenged to memorize, understand, and perform various choral pieces at the scheduled choral concerts.

Throughout the course of the year, Freshman Choir will emphasize many different aspects of choral music through performing, rehearsing, singing and listening. The student will learn how music works, and an overall history from the early music through the present. In addition to rehearsals, each student is required to perform at the scheduled choral concerts and choral festivals.

### **VARSITY CHOIR A – COURSE 5510**

### **VARSITY CHOIR B – COURSE 5511**

### **VARSITY CHOIR C – COURSE 5512**

Grade: 10, 11, 12

Prerequisite: By audition

Each student will begin to establish a solid and permanent relationship with a wide variety of choral music. Also each student will begin to develop the human voice and use the correct vocal techniques to produce a good choral sound. Students will also be challenged to memorize, understand and perform various choral pieces at choral concerts, and choral festivals.

Throughout the course of the year, this chorus will establish many different aspects of choral music through singing, performing and listening. Varsity Choir is especially designed for students who enjoy singing and performing. This course will cover many different choral styles and genres: traditional choral music, sacred, secular, popular, contemporary, and Broadway. Singing with the correct vocal technique, projecting the voice, learning to sight-read music using solfege and a chance to perform for a live audience are all parts of this course. Varsity Choir is also a social group with many exciting activities planned throughout the year. Each student will hopefully use this course to develop his/her aesthetic potential, to create an outlet for creativity and self expression, and to give that student a source of life-long enjoyment.

### **CONCERT CHOIR A – COURSE 5530**

### **CONCERT CHOIR B – COURSE 5531**

### **CONCERT CHOIR C – COURSE 5532**

Grades: 10, 11, 12

Prerequisite: By audition – this group is strictly an SSAA Women's Choir

Each student will establish a solid and permanent relationship with a wide variety of choral music. Also each student will begin to develop the human voice and use the correct vocal techniques to produce a good choral sound. Students will be challenged to memorize, understand, and perform various choral pieces at the scheduled choral concerts.

Throughout the course of the year, Concert Choir will emphasize many different aspects of choral music through performing, rehearsing, singing, and listening. Each student will develop the human voice, learn to sight read choral music using the solfege technique, learn to sing in front of groups of people small and large, and learn the basics of music through the choral literature. Choral literature presented will include traditional choral music, sacred, secular, popular, contemporary, Broadway, and more. In addition to rehearsals, each student is required to perform at the scheduled choral concerts. As well as performing, this is a social group with many exciting activities planned throughout the year with Varsity Choir and Soiree.

**SOIREE SINGERS A – COURSE 5551**  
**SOIREE SINGERS B – COURSE 5552**

Grades: 10, 11, 12

Prerequisite: By audition

The Soiree Singers are the elite singers of Bedford chosen by audition. This class challenges the students with more difficult choral pieces and a chance to sing with students of their own caliber.

The Soiree Singers' main objective is to perform and entertain as well as learn and sing advanced choral literature. Two objectives during rehearsals are to maintain vocal technique and to introduce basic dance movements. Performing is highly emphasized and is what the group is all about. Students are encouraged to use their creativity and self-expression as they perform with the group or as soloists. Soiree performs on various occasions throughout the year as well as the scheduled choral concerts. All performances are mandatory. Soiree members are challenged to memorize all Soiree music and those members not in Varsity Choir are required to prepare all Varsity Choir music as well.

**MUSIC THEORY/HISTORY APPRECIATION – COURSE 5573**

Grades: 10, 11, 12

Prerequisite: This course is open to any student involved in the choral or band program at Bedford or who has the equivalent private study in piano, strings, or guitar. At least one year of private study is required

This is a class offered to teach the basics of music theory and the progression of music through history. This course is developed mainly for students who have a strong interest in music and possibly plan to major in this area at the college level.

This course will increase knowledge and appreciation for students enrolled in performing groups in order to increase the quality of these performing ensembles. The theory aspect of the course will cover basic musical concepts, terminology, symbols, and writing of music. The history appreciation aspect will cover the basic evolution of music from the Middle Ages to the present day. Also, the class will utilize available high tech music equipment such as computers, synthesizers and recording equipment.

**POPULAR MUSIC STUDIES – COURSE 5584**

Grades: 9, 10, 11, 12

Prerequisite: None

In this one term course, students will explore what makes today's music what it is. To gain insights about today's music, students will learn about early American music and progress into the music of the 90's and today. Through class instruction, readings, listening, viewing and out of class assignments, students will learn the basic principles of the variety of musical styles that make up American popular music.

**JAZZ BAND A – COURSE 5441**

**JAZZ BAND B – COURSE 5442**

Grades: 9, 10, 11, 12

Prerequisite: Audition and/or director's signature, membership in Varsity or Symphonic Band

Students will broaden their musical skills and knowledge through the study of and performance of jazz. Students will learn the styles, performance techniques, theory, and history of music through performance, lecture, and listening to representative performances of each style.

Jazz Ensemble is an active performance group. Students will be expected to perform as many as ten times per year outside the school day.

**VARSITY BAND A – COURSE 5460**

**VARSITY BAND B – COURSE 5461**

**VARSITY BAND C – COURSE 5462**

Grades: 9, 10, 11, 12

Prerequisite: (1) satisfactory audition demonstrating musical knowledge and skill at intermediate to advanced level depending on instrument and grade level or Director's signature and recommendation of previous director (2) demonstration of interest and attitude assuring a positive contribution to this ensemble.

Intermediate instrumental students in this class will broaden their musical skills and knowledge through the study and performance of selected compositions. Students will learn the styles, performance techniques, theory, and history of music through performance, lecture and listening to representative performances of several styles and works. Students will become more competent and knowledgeable performers and will gain a richer appreciation and understanding of music. Individual evaluation will be by solo performance, observed class performance/participation, and written test.

Because of the nature of the subject and class, students will be required to perform in public both at home and out-of-town during the year. Performances are scheduled for late October, early December, early March, late April, and mid-late May.

**SYMPHONIC BAND A – COURSE 5420**

**SYMPHONIC BAND B – COURSE 5421**

**SYMPHONIC BAND C – COURSE 5422**

Grades: 9, 10, 11, 12

Prerequisite: (1) satisfactory audition demonstrating musical knowledge and skill at intermediate to advanced level depending on instrument and grade level (2) Director's signature and recommendation of previous director (3) demonstration of interest and attitude assuring a positive contribution to this ensemble.

Advanced instrumental students selected for this class will broaden their musical skills and knowledge through the study and performance of selected compositions. Students will learn the styles, performance techniques, theory, and history of music as well as reviewing the basic literature for band through performance, lecture, and listening to representative performances of several styles and works. Students will become competent and knowledgeable performers and will gain a richer appreciation and understanding of music. Individual evaluation will be by solo performance, observed class performance/participation, and written test.

Students will be required to participate in performances locally and out-of-town during the year. Performances are scheduled for late October, early December, early March, late April, and mid-May.

Symphony Band is the premiere instrumental ensemble of Bedford High School so students should expect to have more performance responsibilities and opportunities than students in other large ensembles.

**SYMPHONY ORCHESTRA A – COURSE 5410**

**SYMPHONY ORCHESTRA B – COURSE 5411**

**SYMPHONY ORCHESTRA C – COURSE 5412**

Grades: 9, 10, 11, 12

**Prerequisite:** (1) Demonstrate interest and attitude to be a positive member of this ensemble, (2) Director's signature and recommendation of previous director (Suggested)

This course is for the student who wishes or may need to refine playing skills such as scales, tone, intonation or ensemble playing. Participants will be exposed to both string and full orchestra repertoire through performances, lecture, and listening to representative performances in a variety of musical periods. Concerts and programs will reinforce skills developed in rehearsal. They will serve as motivation to perfect those skills and increase the student's depth of understanding.

Evaluation is based on individual assignments, both written and played, as well as participation in class and concerts.

Due to the nature of the subject and class, students will be required to participate in day and evening performances locally and out-of-town during the year. There may also be some after school section and orchestra rehearsals. Performances are scheduled for October, December, March, April, May and June.

**CHAMBER ORCHESTRA A – COURSE 5415**

**CHAMBER ORCHESTRA B – COURSE 5416**

**CHAMBER ORCHESTRA C – COURSE 5417**

**Grades:** 9, 10, 11, 12

**Prerequisite:** (1) Satisfactory audition demonstrating musical knowledge and skill at intermediate to advanced level depending on instrument and grade level (2) Director's signature and recommendation of previous director; (3) Demonstrate interest and attitude to be a positive member of this ensemble.

This course is for the advanced student who wishes to study high-level scales, etudes and orchestral literature. Participants will be exposed to both string and full orchestra repertoire through performances, lecture, and listening to representative performances in a variety of musical periods. Concerts and programs will reinforce skills developed in rehearsal. They will serve as motivation to perfect those skills and increase the student's depth of understanding.

Evaluation is based on individual assignments, both written and played, as well as participation in class and concerts.

Due to the nature of the subject and class, students will be required to participate in day and evening performances locally and out-of-town during the year. There may also be some after school section and orchestra rehearsals. Performances are scheduled for October, December, March, April, May and June.

**THEATRE/STAGECRAFT – COURSE 5594**

**Grades:** 9, 10, 11, 12

**Prerequisite:** None

Stagecraft is a specialized class for students who wish to learn basic electronics as applied to the auditorium. The class will explore many aspects of "behind the scenes" work in the theatre including, but not limited to: lighting and sound training, maintenance, equipment, design, publicity, props, costumes, make-up, stage managing, set design, light design, sound design. Students will help design and be involved with each major production BHS Theatre Arts presents.

## **PHYSICAL EDUCATION/HEALTH DEPARTMENT**

**All Physical Education classes are participation classes. Daily participation and appropriate dress are required from all students.**

**All students must have taken one term of general physical education BEFORE taking one of the special physical education courses.**

### **PHYSICAL EDUCATION 1 (CO-ED) – COURSE 6024**

Grade: 9

Prerequisite: None

This class provides a variety of social, emotional and physical learning opportunities for the student. Beginner weight room instruction, an individualized fitness program and activities based on various team and individual sports will be provided. Fitness, Sportsmanship and Teamwork will be emphasized. Students will be assessed through pre and post fitness testing (The President's Challenge), class participation, written work and a course exam.

### **PHYSICAL EDUCATION 2 (CO-ED) – COURSE 6037, 6038, 6039**

Grades: 10, 11, 12

Prerequisite: At least sophomore status.

This class provides a variety of social emotional and physical learning opportunities for the student. Intermediate weight room instruction, team, individual, and recreational sport opportunities are provided. Students will learn to formulate an individualized fitness plan for use beyond this class. Students will be assessed through pre and post fitness testing (The President's Challenge), class participation, written work and a course exam. \*This class may be repeated for additional Credit.

### **ADVANCED FITNESS TRAINING (CO-ED) – COURSE 6054**

Grades: 10, 11, 12

Prerequisite: ½ credit of high school Physical Education **AND** Instructor Approval

For the "non-sports" student who just wants to get/stay in shape, or the athlete looking to take their conditioning to the next level. This class provides opportunities for students to learn various strength training and cardiovascular fitness programs. Advanced resistance training instruction will be an integral part of this course. Students will be assessed on class participation, muscular strength, flexibility and cardiovascular endurance improvement, written work and a course exam. \*This class may be repeated for additional credit with instructor approval.

### **HEALTH – COURSE 6064**

Grades: 9, 10, 11, 12

Prerequisite: None

Health meets five days per week for one term. The units presented include: health decision-making; physical activity for life; nutritional choices; personal hygiene; analyses of various body systems; avoiding the use of alcohol, tobacco, and illegal drugs; and AIDS/STD prevention. Boater Safety and CPR may also be presented.

### **AQUATICS – (CO-ED) – COURSE 6055**

Grades: 10, 11, 12

Prerequisite: ½ credit in Physical Education **AND** instructor approval. This class may be repeated for additional credit with instructor approval. Juniors and seniors will be given preference in scheduling.

This course is geared toward intermediate level swimmers who are interested in mastering swimming strokes, improving strength and endurance through swimming, and water safety techniques. Participants **must** be prepared to swim every day. Classes will be held at the Francis Family YMCA; students will be required to travel by foot on the walking trail to the YMCA **or** have parental approval to drive their own vehicle to the YMCA. Students must pass a basic swim test the first day of class to continue enrollment. Students will be assessed each day on class participation, fitness improvement through aquatic education, written work, and a course exam. \*This class may be repeated for additional credit with instructor approval.

### **AEROBICS AND DANCE (CO-ED) – COURSE 6058**

Grades: 10, 11, 12

Prerequisite: ½ credit in Physical Education

This course is for students wishing to improve fitness levels through aerobic and dance techniques. Students will be introduced to various forms of modern and traditional dance as well as step aerobics, low-impact aerobics, and stretching. Teaching, learning, and performing routines will be an integral part of this class. Students will be assessed based on class participation and performance, strength and flexibility improvement, written work, a final exam, and choreographing and performing a final routine. \*This class may be repeated for additional credit with instructor approval.

### **RACQUET SPORTS (CO-ED) – COURSE 6059**

Grades: 10, 11, 12

Prerequisite: ½ credit Physical Education

This class is designed to improve skills associated with several racquet sports, including: tennis, pickleball, ping-pong, badminton, and eclipse. Elements of racquetball and handball will be introduced as well. Students will learn rules, basic strokes, serving, and training concepts. Advanced strokes will be introduced and game techniques leading to tournament play are taught. Students will be assessed based on class participation, skill testing, written work, and a course exam. \*This course may be repeated for additional credit with instructor approval.

### **TEAM SPORTS (CO-ED) – COURSE 6060**

Grades: 10, 11, 12

Prerequisite: ½ credit in Physical Education

This course is designed for those students who have mastered basic skills and wish to pursue vigorous team activities. A variety of team sports will be offered, such as flag football, soccer, speedball, floor hockey and ultimate Frisbee. Students will be assessed based on class participation, ability to work with a team, fitness development through the sports activities, written work, and a course exam. \*This class may be repeated for additional credit with instructor approval.

### **VOLLEYBALL TECHNIQUES (CO-ED) – COURSE 6061**

Grades: 10, 11, 12

Prerequisite: ½ credit in Physical Education

Students enrolling in this course should have some volleyball experience and wish to pursue a more thorough study of volleyball techniques and strategies. This course is designed to help develop advanced skills of passing, setting, spiking and serving. Volleyball specific training concepts, drills, game strategies, and team competition will be integrated into this course. Students will be assessed through class participation, skill testing, written work, and a course exam. \*This class may be repeated for additional credit with instructor approval.

**BASKETBALL TECHNIQUES (CO-ED) – COURSE 6062**

Grades: 10, 11, 12

Prerequisite: ½ credit in Physical Education

Students enrolling in this course should have some basketball experience and wish to pursue a more thorough study of basketball techniques and strategies. Skills will be developed through active play, drills, and basketball-specific training concepts. Game strategy, specific offenses and defenses will be integrated into this course as well. Students will be assessed on class participation, skill testing, resistance training, written work and a course exam. \*This class may be repeated for additional credit with instructor approval.

**GROUP FITNESS (CO-ED) – COURSE 6063**

Grades: 10, 11, 12

Prerequisite: ½ credit in Physical Education

This class focuses on popular “health club” fitness techniques for lifelong health and activity. Students will explore a variety of fitness routines, including: weight training, trail running, fitness walking, step aerobics, yoga, Pilates, cardio kickboxing, exercises with fitness balls and therabands, and stretching. This class will also include a unit on self-defense and will address the topics of body image and personal safety. Students will be assessed on class participation, fitness improvements, written work and a semester exam. \*This class may be repeated for additional credit with instructor approval.

## SCIENCE DEPARTMENT

**HONORS CHEMISTRY** (See Honors Section) - **AP BIOLOGY** (See AP Section) - **AP PHYSICS** (See AP Section)

### **FOUNDATIONS IN PHYSICS 1 – COURSE 2011**

### **FOUNDATIONS IN PHYSICS 2 – COURSE 2012**

Grades: 9

Prerequisite: None

This ninth grade science course exposes students to concepts required by the State of Michigan in the area of physics. Basic science lab skills will also be introduced. Students will be expected to actively participate in a variety of science and laboratory activities. *This course is required unless a student achieves a passing score on the Foundations in Physics Test-Out.*

### **BIOLOGY 1 – COURSE 2021**

### **BIOLOGY 2 – COURSE 2022**

Grades: 10

Prerequisite: Completion of Foundations in Physics with a C or better, or by achieving a passing score on the Foundations in Physics Test-Out.

Students enrolled in biology will be exposed to biochemistry, cell biology, genetics, evolution, ecology, and taxonomy. Dissections of preserved specimens will occur, along with other laboratory activities. Biology is designed for students with an interest in pursuing further study in the field of science. The concepts covered in biology meet the benchmarks required by the State of Michigan. *Students that have received credit in Life Science cannot receive credit in Biology.*

### **ANATOMY/PHYSIOLOGY A – COURSE 2041**

### **ANATOMY/PHYSIOLOGY B – COURSE 2042**

Grades: 11, 12

Prerequisite: Anatomy/Physiology A - Completion of Biology with at least a C or completion of Life Science with at least a B.

Prerequisite: Anatomy/Physiology B – Successful completion of Anatomy/Physiology A

Students enrolled in this class will study the anatomy and physiology of the human body using a body systems approach. The course will involve in-depth analysis of the skeletal, muscular, nervous, digestive, circulatory, reproductive, and respiratory systems. Lab activities will supplement class lectures and may include dissection and skeletal reconstruction. This class will be directed toward students with a serious interest in the health-related fields and requires serious study habits for successful completion

### **ENVIRONMENTAL SCIENCE A – COURSE 2051**

### **ENVIRONMENTAL SCIENCE B – COURSE 2052**

Grades: 11, 12

Prerequisite: Completion of Life Science or Biology

This course is offered every other year (2013-2014, 2015-2016).

Environmental Science is the study of the relationships that exist between organisms and the environment. An emphasis will be placed on the effects of human activity. Students enrolled in this class will learn basic ecological concepts. Instruction will involve lecture, media presentations, outdoor field exercises, library research, organism identification, and various class projects. Daily participation in class activities and interest in nature are required.

**CHEMISTRY A – COURSE 2071****CHEMISTRY B – COURSE 2072**

Grades: 11, 12

Prerequisite: Concurrently taking or having completed Algebra 2 successfully.

Students enrolled in this class will learn basic chemical principles dealing with the atom, chemical reactivity, the periodic table, and practical applications of chemistry. The information will be transmitted by lectures, media presentations, and laboratory exercises. Regular tests, lab reports and quizzes will form the basis for grade evaluations.

**PHYSICS A – COURSE 2091****PHYSICS B – COURSE 2092**

Grades: 11, 12

Prerequisites: Completion of Algebra 2.

Students enrolled in physics will learn the basic principles of motion, force, energy, heat, light, electricity, and magnetism. This course will stress the concepts of physics and the mathematical equations used to prove the concepts. Information will be taught through lectures, media presentations, and lab exercises. Regular tests, homework, and lab reports will be the basis for grade evaluation.

**LIFE SCIENCE 1 – COURSE 2151****LIFE SCIENCE 2 – COURSE 2152**

Grades: 10

Prerequisite: Completion of Foundations In Physics

Students enrolled in Life Science will study biochemistry, cell biology, genetics, evolution, ecology, and taxonomy. The concepts covered in this course meet the benchmarks required by the State of Michigan for Biology.

*This course does not meet the NCAA requirements for biology;*

**ZOOLOGY – COURSE 2174**

Grades: 11, 12

Prerequisite: Successful completion of Biology with a C or better.

This course is offered every other year (2012-2013, 2014-2015, 2016-2017).

Students enrolled in this class will study the anatomical systems in a variety of organisms. Lab activities will supplement lectures and will include dissections. A research project will comprise a major portion of the student's grade.

**ESSENTIALS OF CHEMISTRY – COURSE 2184**

Grades 10, 11, 12

Prerequisite: Successful completion of Algebra 1

Students enrolled in this course will be exposed to basic chemistry concepts that are recommended by the Michigan Merit Curriculum. The course will cover the concepts of matter, atomic structure, bonding, naming compounds, and balancing equations. This course will be less rigorous than General Chemistry and cannot be submitted for Chemistry A.

**ESSENTIALS OF EARTH SCIENCE – COURSE 2194**

Grades: 10, 11,12

Prerequisite: None

Students enrolled in Essentials of Earth Science will study the concepts of the earth's structure, climate, nature's cycles, and astronomy. The course will follow the recommended objectives provided by the State of Michigan. The course will include lab work, assignment, quizzes, and tests.

**KINESIOLOGY – COURSE 2195**

Grades: 11, 12

Prerequisites: Successful completion of Biology

Kinesiology is a one-term elective science course. This class will study the effects of exercise on the human body and how it moves. Principles of biomechanics and exercise physiology will also be included. The units covered in the course will include an in depth study of the muscular, the respiratory, and the cardiovascular systems. Other units covered will include sports nutrition, energy utilization, exercise technique, aerobic respiration, anaerobic respiration, athletic training, and exercise with regards to age.

**ALTERNATIVE ENERGY – COURSE 2196**

Grades: 10, 11,12

Prerequisite: Completion of one full credit in science

This course is offered every other year (2014-2015, 2016-2017).

Alternative Energy Basics is a one term, elective science course. The course will study the basics of alternative and sustainable energy. Units will include the basics of energy, the engineering of energy, energy as green technology, and various sources of sustainable energy. This course fulfills ½ science credit towards the graduation requirements. The concepts in this course should also help students prepare for the Michigan Merit Exam.

## **SOCIAL STUDIES DEPARTMENT**

### **LAW AND SOCIETY – COURSE 1014**

Grades: 9, 10, 11, 12

Prerequisite: American History is recommended for success in this class.

Students learn how the American judicial system is organized at the national, state, and local level. Analysis of actual court cases, emphasizing legal concepts, personal rights, and law enforcement are presented. Role-playing and in-depth discussions are an important part of the class.

### **U.S. HISTORY AND GEOGRAPHY A – COURSE 1031**

### **U.S. HISTORY AND GEOGRAPHY B – COURSE 1032**

Grades: 10

Prerequisite: None

Students will study the following history themes: 1) Change and Continuity in American Society, 2) The Gathering and Interactions of Peoples, Cultures, and Ideas, 3) Economic and Technological Changes and Their Relationship to Society, Cultures, and Ideas, and the Environment, and 4) The Changing Role of America in the World. Also, the following geography themes: 1) Space and Place, 2) Environment and Society, 3) Special Dynamics and Connections, and 4) U.S./Global Issues and Events. Term “A” will include 1870-1930 (Development of Industrial, Urban, and Global United States) and 1920-1940 (Great Depression). Term “B” will include 1940-1945 (World War II), 1945-1989 (Post-World War II United States), and 1990-present (America in a New Global Age).

### **CURRENT EVENTS – COURSE 1104**

Grades: 9, 10, 11, 12

Prerequisite: None

Students study current events as they unfold to determine the effects on the world, in general, and America, in particular. A variety of media are used, including newspapers, news magazines, video, and the internet. Class discussions are an important part of this class.

### **PSYCHOLOGY 1 – COURSE 1111**

Grades: 9, 10, 11, 12

Prerequisite: None

Students study the history of psychology, human behavioral patterns, and means of acquiring research information ethically. Learning, memory, and consciousness are some of the highlighted topics. Classroom discussions complement audiovisual presentations in this class.

### **PSYCHOLOGY 2 – COURSE 1122**

Grades: 9, 10, 11, 12

Prerequisite: None

Students build on the information acquired in Psychology 1. This class emphasizes developmental psychology, personality theories, and abnormal psychology. A variety of participatory experiences complement the audiovisual presentations and readings used in this class.

### **SOCIOLOGY – COURSE 1134**

Course: 1134

Grades: 9, 10, 11, 12

Prerequisite: None

Students learn about human social groups and how they function. They are introduced to various cultures and customs, collective (group) behaviors, and social institutions. Students participate in group activities, communicating their viewpoints on topics presented in their text.

**ECONOMICS – COURSE 1144**

Grade: 12 (Required)

Prerequisite: None

Students study the basic principles of the American economic system. They focus on consumerism, the interplay between business and the market, and the role of government regulation of the economy. Interpretation of charts, graphs, and tables occurs. (This class is required for 12th graders.)

**CIVICS – COURSE 1164**

Grade: 12 (Required)

Prerequisite: None

Civics will teach students the complex workings of the American Government. It will have a heavy focus on the Constitution and how it guides our everyday lives. By tracing the US Constitution from its origins to the present, everyone will be able to find their role in American politics. Students will investigate the interworking of the US government and its ever-changing role in world affairs. Through exploration of the election process, state and local governments and public policy students will discover how to become a better citizen, insuring the well-being of the nation as well as themselves.

**WORLD HISTORY AND GEOGRAPHY A – COURSE 1180****WORLD HISTORY AND GEOGRAPHY B – COURSE 1181**

Grade: 11 (Required)

Prerequisite: None

World History and Geography is a course where students will learn about the human experience over time and space. They will encounter powerful and conflicting ideas while studying about people and events in different places and time periods. Students will investigate our diverse and common traditions, and work to understand the complex interactions among various environmental, human and social forces that have influenced and continue to influence the United States. The time line ranges from the beginning of time to current global issues. Systems of human organization, world religions, and the rise and fall of major empires are some of the topics discussed.

**WORLD STUDIES – COURSE 1194**

Grade: 9, 10, 11,12

Prerequisite: None

This course takes the economical, historical, and political knowledge that students gained as underclassmen and applies that knowledge to regions outside of the United States. Physical landform regions, culture, religion, current events, modern history, natural resources, environmental issues, political issues, underdeveloped countries, interdependency, revolution, and technology are some of the major concepts that will be covered.

This course will give students the opportunity to learn about other cultures including a deeper look at our own culture. Ideally students will develop sensitivity to and an appreciation for the multicultural diversity of the world.

**STUDENT LEADERSHIP – COURSE 1214**

Grades: 9, 10, 11, 12

Prerequisite: Interested students must have a minimum 2.0 GPA and must not have violated the attendance policy as verified by counselor's signature.

Students demonstrate leadership principles in practical situations. Projects employing management skills, organizational abilities, targeted communications, and peer motivation occur. Some activities require after-class work sessions. **Enrollment in this class is very limited.**

# **SPECIAL EDUCATION DEPARTMENT**

## **GRADUATION REQUIREMENTS**

It is understood that some special needs students may not be able to fulfill graduation requirements within the traditional time structure of four years. Consequently, because the graduation of handicapped students constitutes a change of education status, an Individual Education Planning Committee (IEPC) must determine that graduation requirements, in conjunction with School Board policy, have been met.

### **RR ENGLISH 9 A – COURSE 7011**

### **RR ENGLISH 9 B – COURSE 7012**

Grades: 9

Prerequisite: Individualized Educational Plan (IEP)

This class integrates reading, writing, listening, and speaking to increase literacy in its approach to language arts instruction. Freshmen will read books from several genres and time periods, in addition to the Holt Rinehart Winston anthology, to increase their understanding of literature, especially through the study of literary elements. They will engage in writing-to-learn activities and write processed compositions, including a research paper, to improve the clarity, logic, and vitality of their writing. Grammar study will review the basic parts of speech as well as phrases and clauses.

### **RR ENGLISH 10 A – COURSE 7021**

### **RR ENGLISH 10 B – COURSE 7022**

Grade: 10

Prerequisite: English 9 and an Individualized Educational Plan (IEP)

This class integrates reading, writing, listening, and speaking to increase literacy in its approach to language arts instruction. Sophomores will read books from several genres and time periods in addition to the Holt Rinehart Winston anthology to increase their understanding of literature, especially through the study of literary elements. They will engage in writing-to-learn activities and write processed compositions, including a research paper, to improve the clarity, logic, and vitality of their writing. Grammar and vocabulary developments are integral parts of the curriculum.

### **RR ENGLISH 11 A – COURSE 7031**

### **RR ENGLISH 11 B – COURSE 7032**

Grade: 11

Prerequisite: English 10, and an Individualized Educational Plan (IEP)

This class integrates reading, writing, listening, and speaking in its approach to language arts instruction. Students will read a variety of literature in various genres to increase their understanding of literature, especially through their study of literary elements. They will engage in writing-to-learn activities, writing a minimum of two processed essays per term. Grammar and writing conventions will be taught and adhered to. Juniors are expected to write with relatively few errors in usage, spelling, and grammar. Outside reading is required.

### **RR ENGLISH 12 A – COURSE 7041**

### **RR ENGLISH 12 B – COURSE 7042**

Grade: 12

Prerequisite: English 11 and an Individualized Educational Plan (IEP)

This course offers students the opportunity to sharpen their writing and speaking skills while learning more about literature and grammar. Seniors will read books from genres in world literature. They will write processed compositions in addition to writing-to-learn activities. Career opportunities, job selection, interview skills, and business letters will be highlighted.

### **RR ONLINE EXPERIENCE A – COURSE 6401**

Grades: 9, 10, 11, 12

Prerequisite: Individualized Educational Plan (IEP)

This course is designed to give students practical experience using microcomputer and the internet as occupational tools in order to complete a variety of office and business-related tasks and simulations. Students will learn beginning to moderate skills in file management, email, internet use, word processor, electronic spreadsheet, and presentation programs as applied in the workplace and their personal lives. Also, components of the WorkKeys: Applied Math, Reading for Information and Business Writing will be emphasized. **A minimum of 12 hours will be spent fulfilling part of Online Learning Experience requirements in addition to Michigan Educational Technology Standards and Expectation requirements.**

### **RR ONLINE EXPERIENCE B – COURSE 6402**

Grades: 9, 10, 11, 12

Prerequisite: Individualized Educational Plan (IEP)

This course is the 2<sup>nd</sup> level of the Online Experience. It is designed to give students more practical experience using microcomputer and the internet as occupational tools in order to complete a variety of office and business related tasks and simulations. Students will learn more advanced skills in word processing, electronic spreadsheet, and presentation programs in addition to beginning to moderate skill level in database software and integration. Continued emphasis in WorkKeys: Applied Math, Reading for Information, and Business Writing will be utilized. Microsoft Office Certification is also an option for students. Each Certification exam fee is \$48. **After completing both Online Experience A and B, students will have fulfilled all of the Online Learning Experience requirements in addition to Michigan Educational Technology Standards and Expectation requirements.**

### **RR FOUNDATION IN PHYSICS 1 – COURSE 6771**

### **RR FOUNDATION IN PHYSICS 2 – COURSE 6772**

Grade: 9

Prerequisite: Individualized Educational Plan (IEP)

This course is designed to meet the individual needs of each student. Students enrolled in this class will learn about basic physical science concepts. This course is designed to prepare the student for success when taking the State mandated tests and for any other future study of high school science courses. Students will demonstrate knowledge of concepts through the use of multi-media materials, reading and writing skills, as well as by observing, participating, and conducting simple lab experiments and activities. The grading scale will be according to the student handbook and will include assignments, homework, labs, projects, quizzes, tests, and an end-of-term final exam.

### **RR LIFE SCIENCE 1 – COURSE 6811**

### **RR LIFE SCIENCE 2 – COURSE 6812**

Grades: 10, 11, 12

Prerequisite: Individualized Educational Plan (IEP)

This course is designed to meet the individual needs of each student. Students enrolled in this class will learn about basic biological concepts. This course is designed to prepare the student for success when taking the State mandated test. Students will demonstrate knowledge of concepts through the use of multi-media materials, reading and writing skills, as well as, by observing, participating, and conducting simple lab experiments and activities. The grading scale will be according to the student handbook and will include assignments, homework, labs, projects, quizzes, test, and an end-of-term final exam.

**RR ESSENTIALS OF CHEMISTRY – COURSE 6815**

Grades: 10, 11, 12

Prerequisite: Individualized Educational Plan (IEP)

Students enrolled in this course will be exposed to basic chemistry concepts that are recommended by the Michigan Merit Curriculum. The course will cover the concepts of matter, atomic structure, bonding, naming compounds, and balancing equations. This course will be less rigorous than General Chemistry and cannot be submitted for Chemistry A.

**RR ESSENTIALS OF EARTH SCIENCE – COURSE 6816**

Grades: 10, 11, 12

Prerequisite: Individualized Educational Plan (IEP)

Students enrolled in Earth Science will study the concepts of the earth's structure, climate, nature's cycles, and astronomy. The course will follow the recommended objectives provided by the State of Michigan. The course will include lab work, assignment, quizzes, and tests.

**RR STUDY SKILLS A - COURSE 7181 A****RR STUDY SKILLS B - COURSE 7182 B****RR STUDY SKILLS C - COURSE 7183 C**

Grades: 9, 10, 11, 12

Prerequisite: Individualized Educational Plan (IEP)

Study Skills is a course designed for students in need of structure, help with specific study skills, and a supervised study environment. Students can elect this class only with the approval of the special education department or the high school administration.

**RR U.S. HISTORY/GEOGRAPHY A – COURSE 7151****RR U.S. HISTORY/GEOGRAPHY B – COURSE 7152**

Grades: 10

Prerequisite: Individualized Educational Plan (IEP)

Students will study the following history themes: 1) Change and Continuity in American Society, 2) The Gathering and Interactions of Peoples, Cultures, and Ideas, 3) Economic and Technological Changes and Their Relationship to Society, Cultures, and Ideas, and the Environment, and 4) The Changing Role of America in the World. Also, the following geography themes: 1) Space and Place, 2) Environment and Society, 3) Special Dynamics and Connections, and 4) U.S./Global Issues and Events. Term "A" will include 1870-1930 (Development of Industrial, Urban, and Global United States) and 1920-1940 (Great Depression). Term "B" will include 1940-1945 (World War II), 1945-1989 (Post-World War II United States), and 1990-present (America in a New Global Age).

**RR WORLD HISTORY AND GEOGRAPHY A – COURSE 7155****RR WORLD HISTORY AND GEOGRAPHY B – COURSE 7156**

Grade: 11 (Required)

Prerequisite: Individualized Educational Plan (IEP)

World History and Geography is a course where students will learn about the human experience over time and space. They will encounter powerful and conflicting ideas while studying about people and events in different places and time periods. Students will investigate our diverse and common traditions, and work to understand the complex interactions among various environmental, human and social forces that have influenced and continue to influence the United States. The time line ranges from the beginning of time to current global issues. Systems of human organization, world religions, and the rise and fall of major empires are some of the topics discussed.

**RR ECONOMICS – COURSE 7164**

Grade 12 (Required)

Prerequisite: Individualized Education Plan (IEP)

Students study the basic principles of the American economic system. They focus on consumerism, interplay between business and the market, and the role of government regulation of the economy. Interpretation of charts, graphs, and tables is included. **This course is required for grade 12.**

**RR PERSONAL FINANCE A – COURSE 6850**

Grades: 11, 12

Prerequisite: Algebra 1, Geometry and an Individualized Education Plan (IEP)

Personal finance is a subject that will affect all students for the rest of their lives, regardless of age, education level, or income. This course will prepare students for success in a fast paced global economy. It will teach students how to harness their spending power and plan for their future. Students will have a firm understanding of how the financial choices they make will affect their lives and the community. Personal Finance A focuses on an individual and the personal financial choices they make. Checking and saving accounts, interest rates, credit cards, loans and budgets will be addressed.

**RR PERSONAL FINANCE B – COURSE 6851**

Grades: 11, 12

Prerequisite: Personal Finance A and an Individualized Education Plan (IEP)

This course will prepare students for success in a fast paced global economy. Students will have a firm understanding of how the financial choices made in the business world affect the individual business, the community, and the global market. This class will help students make a successful transition into the adult workplace.

**RR CIVICS – COURSE 7165**

Grade: 12 (Required)

Prerequisite: Individualized Education Plan

Civics will teach students the complex workings of the American Government. It will have a heavy focus on the Constitution and how it guides our everyday lives. By tracing the US Constitution from its origins to the present, everyone will be able to find their role in American politics. Students will investigate the interworking of the US government and its ever-changing role in world affairs. Through exploration of the election process, state and local governments and public policy students will discover how to become a better citizen, insuring the well-being of the nation as well as themselves.

**RR INTRODUCTION TO ALGEBRA – COURSE 6820**

Grades: 9, 10, 11

Prerequisite: Individualized Educational Plan (IEP)

This introduction class is designed to prepare students with the elementary foundations for high level math. Students will learn to use the following concepts: integers, variables, exponents, square roots, order of operation and plotting points on the coordinate plane.

**RR ALGEBRA 1 A – COURSE 6821****RR ALGEBRA 1 B – COURSE 6822**

Grades: 9, 10, 11, 12

Prerequisite: Individualized Educational Plan (IEP)

RR Algebra 1 is a course designed to provide the elementary foundation for higher level classes in mathematics. The student will develop the ability to reason abstractly using the following concepts: polynomials, inequalities, solving equations, linear and quadratic equations, exponents, introduction to statistics.

**RR GEOMETRY A – COURSE 6831****RR GEOMETRY B – COURSE 6832**

Grade: 10, 11, 12

Prerequisite: Algebra 1 and an Individualized Education Plan

The goal of geometry is to acquaint students with basic geometric concepts as they relate to the field of mathematics. Students will be exposed to concepts in the following areas: components of logic, reasoning, formal proof, area, perimeter, and volume of various geometrical shapes, the properties of polygons including triangles, parallelograms, and trapezoids, to develop spatial reasoning skills. Students will also develop skills with transformations and the relationship between figures.

**RR ALGEBRA 2 A – COURSE 6841****RR ALGEBRA 2 B – COURSE 6842****RR ALGEBRA 2 C – COURSE 6843**

Grades: 11, 12

Prerequisite: Individualized Educational Plan (IEP)

Description: This course will build on the concepts mastered in Algebra 1. The course is spread out over three terms to help students who struggle with math and need to move at a slower pace. Students must complete all three trimesters of this course. The course covers topics such as linear, quadratic, rational, polynomial, trigonometric, exponential and logarithmic functions in addition to inequalities, sequences, and probability.

**RR TEST PREP COURSE 6384**

**The following Test Prep course is divided into three parts (Math, Science, and English) and is required of all juniors.**

**MATH** (Four Weeks)

The Mathematics Test Prep section is designed to improve student scores on the ACT portion of the MME test. Students will memorize formulas that are needed to solve problems on the ACT test. In addition, students will review pre-algebra, algebra, geometry and trigonometry problems that are similar to ones on the ACT test.

**SCIENCE** (Four Weeks)

Students will be instructed and enabled to answer questions about seven sets of scientific information presented in three formats:

1. **Data Representation** – graphs, tables, charts, and other schematics. There will be questions that will ask you to interpret the information given and to draw conclusions from it.
2. **Research Summaries** – several related experiments. Students will read different passages in which each present a description of a scientific experiment and the results of the investigation. Students will be asked to evaluate the experimental method, and to interpret the results.
3. **Conflicting Viewpoints** – alternative interpretations of related hypotheses/views that is inconsistent with each other. Passages will give you 2 paragraphs to read that deal with controversial scientific questions, where students will be asked to evaluate the arguments of each, identify points of disagreement, and recognize the evidence that each scientist cites in favor of his/her viewpoint; decide who is right.

**ENGLISH** (Four Weeks)

This section will help prepare students to take the Language Arts, Reading and Writing sections of the ACT test. The course focuses on teaching students test-taking strategies, as well as reviewing and encouraging mastery of the fundamental skills which the test evaluates. Students will have opportunities to familiarize themselves with the test format and to develop an understanding of the types of questions that are typical of this test.

## HONORS PROGRAM

Bedford High School offers several opportunities for students with interests and aptitudes in specific academic areas. Honors courses offered are: Geometry, Algebra 2, Pre-Calculus, Calculus, English 9, 10, and 11, Chemistry.

Eligibility for these courses is based upon teacher recommendation, standardized test scores, cumulative GPA, and subject GPA. Students will be expected to complete pre-assigned reading and writing assignments prior to the first class meeting.

Students enrolled in these courses should expect a more rigorous curriculum including term papers and other special projects that are beyond the general level course requirements. The grading scale is: **A = 4.0; B = 3.0; C = 2.0; D = 1.0.**

Other considerations with Honors courses are:

1. Students enrolled in these offerings should review their own schedule relative to its degree of difficulty.
2. Bedford High School does not recommend an excessive number of Honors classes in one academic school year.

Note: Students accepted into any Honors course are expected to make a commitment to the course and **will not be allowed to drop**. No exceptions.

Admission to any Honors Class is dependent upon the student's commitment to complete pre-assigned reading and writing summer assignments **prior** to the first class meeting.

## ENGLISH

### HONORS ENGLISH 9 A – COURSE 0131

### HONORS ENGLISH 9 B – COURSE 0132

Grade: 9

Prerequisite: Admission to Honors Program and signature of previous English teacher.

This course in literature and composition engages students in the careful reading and critical analysis of imaginative literature from several genres and time periods. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes, as well as such smaller-scale elements as the uses of figurative language, imagery, symbolism, and tone. Attention will be given to English usage and grammar. This is a feeder course for AP English.

### HONORS ENGLISH 10 A – COURSE 0161

### HONORS ENGLISH 10 B – COURSE 0162

Grade: 10

Prerequisite: Admission to Honors Program and signature of previous English teacher.

This course in literature and composition engages students in the careful reading and critical analysis of imaginative literature from several genres and time periods. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their reading. As they read, students consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Attention will be given to English usage and grammar. This is a feeder course for AP English.

**HONORS ENGLISH 11 A – COURSE 0191****HONORS ENGLISH 11 B – COURSE 0192**

Grade 11

Prerequisite: Admission to Honors Program and signature of previous English teacher.

This course in Literature and Composition engages students in the careful reading and critical analysis of imaginative American literature from several genres and time periods. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Attention will be given to English usage and grammar. This is a feeder course for AP English.

**MATHEMATICS****HONORS GEOMETRY A – COURSE 3041****HONORS GEOMETRY B – COURSE 3042**

Grades: 9, 10, 11, 12

Prerequisite: Algebra 1 plus admission to the Honors Program

The Honors section will cover all the concepts spelled out in the course of study of regular geometry, but at a more accelerated pace. Use of the discovery method will be emphasized as well as supplementary materials that nurture the precocious math student. The spatial relation skill as it pertains to geometry will be stressed as a critical factor in comprehending the enriched topics.

**HONORS ALGEBRA 2 A – COURSE 3061****HONORS ALGEBRA 2 B – COURSE 3062**

Grades: 10, 11, 12

Prerequisite: Algebra 1 and Geometry plus admission to the Honors Program

The Honors section will include all concepts covered in regular Algebra 2. Moving at a faster pace will allow students to utilize the discovery method and expose them to more rigorous tests. Enrichment topics such as beginning microcomputer programming, probability, sequences and statistics are also important aspects of the Honors classes.

**HONORS PRE-CALCULUS A – COURSE 3081****HONORS PRE-CALCULUS B – COURSE 3082**

Grades: 11, 12

Prerequisite: Algebra 2 plus admission to the Honors Program

The Honors section will include those topics listed in the course study of pre-calculus plus others such as: vectors in physics, polar coordinates, complex numbers in polar form, and other concepts that would be considered enrichment.

**SCIENCE****HONORS CHEMISTRY A – COURSE 2081****HONORS CHEMISTRY B – COURSE 2082**

Grades: 12

Prerequisite: Completion of Chemistry with a B or better.

Students enrolled in this class will continue their study of chemical principles learned in Chemistry. The pace of the class and the depth of topic presentations will be similar to that of an introductory college chemistry course. Class lectures, laboratory exercises, and media presentations will form the heart of the class. Daily homework assignments (which require nightly reading of the textbook) will be added to tests and lab reports to determine the student's grade.

## ADVANCED PLACEMENT PROGRAM

Bedford High School offers students an opportunity to receive college credit through the College Board program entitled Advanced Placement for College Credit. Advanced Placement offerings at Bedford cover a definitive curriculum outlined by the College Board. To receive college credit, students will sign up in the spring for a standardized test that they will take for a fee during the month of May. For additional information, see your counselor.

Eligibility for these courses is based upon teacher recommendation, standardized test scores, cumulative GPA, and subject GPA. Students will be expected to complete pre-assigned reading and writing assignments prior to the first class meeting.

### Advanced Placement Classes:

AP American History/Geography	AP Government and Politics
AP Biology	AP Physics
AP Calculus	AP Statistics
AP College English	

Students enrolled in these courses should expect a more rigorous curriculum including term papers and other special projects that are beyond the general level course requirements. The grading scale is: **A = 4.0; B = 3.0; C = 2.0; D = 1.0.**

Other considerations with AP courses are:

1. Students enrolled in these offerings should review their own schedule relative to its degree of difficulty.
2. Bedford High School does not recommend an excessive number of AP classes in one academic school year.
3. Students must complete the criteria outlined for admission to AP courses, as well as completion of pre-assigned reading and writing assignments prior to the first class meeting.

Note: Students accepted into any AP course are expected to make a commitment to the course and **will not be allowed to drop.** No exceptions.

## ENGLISH

**AP COLLEGE ENGLISH A – COURSE 0240**

**AP COLLEGE ENGLISH B – COURSE 0241**

**AP COLLEGE ENGLISH C – COURSE 0242**

Grade: 12

Prerequisite: Fulfillment of criteria outlined for admission to AP classes and signature of previous English teacher.

This advanced placement course in literature and composition engages students in the careful reading and critical analysis of imaginative literature from several genres and time periods. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Careful attention to both textual detail and historical context provide a foundation for interpretation. Academic rhetoric will be expected for all formal essays. This class prepares students to take the AP Literature and Composition Examination.

## MATHEMATICS

### AP CALCULUS A – COURSE 3090

### AP CALCULUS B – COURSE 3091

### AP CALCULUS C – COURSE 3092

Grades: 11, 12

Prerequisite: Honors Pre-calculus or Pre-calculus and Admission to the AP Program

This course is a fast paced AP Calculus Class designed to prepare a student for the Advanced Placement Calculus AB test. The course covers Limits, the Derivative, and Integration with algebraic, trigonometric, logarithmic and exponential functions. The course covers traditional analytical algebraic methods along with a graphical approach using graphing calculators. The student will gain experience with the fundamentals and with a wide variety of applications.

### AP STATISTICS A – COURSE 3520

### AP STATISTICS B – COURSE 3521

### AP STATISTICS C – COURSE 3522

Grades: 11, 12

Prerequisite: Algebra 2 and Admission to the AP Program

At least one statistics course is typically required for majors such as engineering, psychology, sociology, health science, and business. This year long course is intended to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics include:

- Exploring Data: Observing patterns and departures from patterns
- Planning a Study: Deciding how and what to measure
- Anticipating Pattern: Producing models using probability and simulation
- Statistical Inference: Confirming models

Students who successfully complete this course and score within a required range on the AP Statistics Test given in May, have the opportunity to obtain college credit for a statistics course at a cost much less than tuition.

## SOCIAL STUDIES

### AP GOVERNMENT AND POLITICS A – COURSE 1170

### AP GOVERNMENT AND POLITICS B – COURSE 1171

### AP GOVERNMENT AND POLITICS C – COURSE 1172

Grades: 12

Prerequisite: A former or present High school Social Studies teacher must sign students into AP Government. It is recommended that students have a cumulative 3.0 GPA.

Students in this advanced class study the political underpinnings of the American governmental system. Extensive outside reading and research is required. This class prepares the student to take the college-level AP Government and Politics test in the spring. **(This class fulfills the 12<sup>th</sup> grade Civics requirement. Juniors will need to seek approval before being signed into this class.)**

### AP U.S. HISTORY AND GEOGRAPHY A – COURSE 1040

### AP U.S. HISTORY AND GEOGRAPHY B – COURSE 1041

### AP U.S. HISTORY AND GEOGRAPHY C – COURSE 1042

Grades: 10, 11, 12

Prerequisite: Application Form; 3.0 GPA minimum, recommendation of current English teacher.

Students in this fast-paced, advanced class study American History and Geography at a greater depth than regular classes. Emphasis on advanced readings and interpretations occur. This class prepares the student to take the college-level AP History and Geography test in the spring. Summer reading will be required due to the pace and length of the textbook. **(Sophomores may substitute this class for U.S. History and Geography. Juniors and seniors may enroll for elective credit.)**

## **SCIENCE**

### **AP BIOLOGY A – COURSE 2170**

### **AP BIOLOGY B – COURSE 2171**

### **AP BIOLOGY C – COURSE 2172**

Grades: 11, 12

Prerequisite: B or better in Biology

This Advanced Placement course is designed to be the equivalent of a two-term college introductory biology course. The students will obtain experience in scientific inquiry through research and laboratory exercises, which integrate the major topics of biology. Students will also apply their knowledge of biology and critical thinking to social concerns. Upon completion of this course, students will be eligible to take the Advanced Placement Biology Exam with the possibility of receiving college credit.

### **AP PHYSICS A – COURSE 2100**

### **AP PHYSICS B – COURSE 2101**

### **AP PHYSICS C – COURSE 2102**

Grades: 11, 12

Prerequisite: Completion of Algebra 2

Students will experience an in-depth description of kinematics, energy, heat, light, electricity, and magnetism. The information will be taught through lecture, media presentations, and lab exercises. Regular tests, homework, and lab reports will be the basis for grade evaluation. Towards the end of the school year, students will have the opportunity to take the algebra-based physics Advanced Placement Exam with the possibility of receiving college credit.

## TEST PREP PROGRAM

### TEST PREP COURSE 9024

The following Test Prep course is divided into three parts (Math, Science, and English) and is required of all juniors.

#### SCIENCE (Four Weeks)

Students will be instructed and enabled to answer questions about seven sets of scientific information presented in three formats:

1. **Data Representation** – graphs, tables, charts, and other schematics. There will be questions that will ask you to interpret the information given and to draw conclusions from it.
2. **Research Summaries** – several related experiments. Students will read different passages in which each present a description of a scientific experiment and the results of the investigation. Students will be asked to evaluate the experimental method, and to interpret the results.
3. **Conflicting Viewpoints** – alternative interpretations of related hypotheses/views that is inconsistent with each other. Passages will give you 2 paragraphs to read that deal with controversial scientific questions, where students will be asked to evaluate the arguments of each, identify points of disagreement, and recognize the evidence that each scientist cites in favor of his/her viewpoint; decide who is right.

#### ENGLISH (Four Weeks)

This section will help prepare students to take the Language Arts, Reading and Writing sections of the ACT test. The course focuses on teaching students test-taking strategies, as well as reviewing and encouraging mastery of the fundamental skills which the test evaluates. Students will have opportunities to familiarize themselves with the test format and to develop an understanding of the types of questions that are typical of this test.

#### MATH (Four Weeks)

The Mathematics Test Prep section is designed to improve student scores on the ACT portion of the MME test. Students will memorize formulas that are needed to solve problems on the ACT test. In addition, students will review pre-algebra, algebra, geometry and trigonometry problems that are similar to ones on the ACT test.

## **EXTENDED AND OFF-CAMPUS PROGRAMS**

### **MICHIGAN COLLEGE DUAL ENROLLMENT PROGRAM**

Post secondary enrollment option (dual enrollment) allows for grade 11-12 students to dual enroll in an eligible college course(s). To qualify for Dual Enrollment students must have a qualifying score on one or more of the following standardized tests: PLAN, PSAT, ACT, and/or the Michigan Merit Exam (MME). Contact Mr. Andy Roussel at 850.6178 for further information.

### **CO-OPERATIVE WORK-STUDY – COURSE 8911**

Grades: 12

Prerequisite: Enrollment in related career and technical class and signature of CO-OP Director

A state approved program that links the classroom with the workplace alternating between periods of school and a paid work assignment related to the student's field of study.

- Minimum of two terms
- Monday-Friday (minimum 1-2 hours /day)
- Parental approval necessary
- Must conform to all CO-OP rules
- Enrolled in a job-related vocational class
- Co-op contract must be completed before scheduling takes place

### **IVN (Interactive Video Network)**

The IVN system classes are taught through live interaction with a certified instructor using videoconferencing capabilities. Each school site consists of a maximum of 8 students that interact with the teacher via camera and microphones. Up to 4 different schools sites throughout Monroe County can participate in the class simultaneously. Subjects typically offered through IVN at Bedford are classes that aren't currently offered in the course schedule but are offered for high school credit.

### **JAPANESE 1 A – COURSE**

### **JAPANESE 1 B – COURSE 8702**

### **JAPANESE 1 C – COURSE 8703**

Grades: 10, 11, 12

Prerequisite: None

Take advantage of an opportunity to discover Japanese language and culture for yourself. Forget what you may know about world languages or about English, this language takes a completely different approach to communication. As we learn to write and speak Japanese, we'll investigate many aspects of Japanese culture. From *ukiyo-e* to *umeboshi*, Japanese culture will intrigue you. Students will be introduced to basic conversation patterns and to the two Japanese syllabries, *hiragana* and *katakana*, as well as ideographs, *kanji*. This course, taught over the Monroe County Interactive Video Network (IVN), will meet throughout the entire school year. The following areas will be covered: introduction of new grammatical items, drills, dialogues in text and conversation, reading/writing and listening practice, and culture of Japan. Space is limited.

**JAPANESE 2 A – COURSE 8711**  
**JAPANESE 2 B – COURSE 8712**  
**JAPANESE 2 C – COURSE 8713**

Grade: 11, 12

Prerequisite: Japanese 1

A continuation of Japanese 1. This class will be taught over the IVN network. It will continue to teach the four basic language skills in a culturally contextualized format. Students will increase their mastery of the syllabries, while adding additional kanji to their knowledge base and increasing their understanding of Japanese vocabulary, grammar, and culture.

**JAPANESE 3 A – COURSE 8721**  
**JAPANESE 3 B – COURSE 8722**  
**JAPANESE 3 C – COURSE 8723**

Grade 12

Prerequisite: Japanese 2

A continuation of Japanese 2. The class will be taught over the IVN network. The class is a split level class in which students work with the teacher for half of the class and then work on their own or with their classmates while the other students work with the teacher. The course continues to teach the four basic language skills: listening, reading, writing, and speaking, in a culturally contextualized format. Students will increase their ability to read and write kanji, while they expand their vocabulary, grammar, and understanding of Japanese culture.

**JAPANESE 4 A – COURSE 8724** (Class must be initiated as a freshmen with special permission)  
**JAPANESE 4 B – COURSE 8725** (Class must be initiated as a freshmen with special permission)  
**JAPANESE 4 C – COURSE 8726** (Class must be initiated as a freshmen with special permission)

Grade: 12

Prerequisite: Japanese 3

A continuation of Japanese 3. The class will be taught over the IVN network. The class is a split level class in which students work with the teacher for half of the class and then work on their own or with their classmates while the other students work with the teacher. The course continues to teach the four basic language skills: listening, reading, writing, and speaking, in a culturally contextualized format. Students will increase their ability to read and write kanji, while they expand their vocabulary, grammar, and understanding of Japanese culture

**THE FOLLOWING COURSES ARE NOT OFFERED AT BEDFORD HIGH SCHOOL BUT AT OTHER SCHOOLS IN MONROE COUNTY. ALL STUDENTS WISHING TO TAKE THESE COURSES MUST COMPLETE AN APPLICATION FORM.**

### **SOUTH COUNTY COOPERATIVE CONSORTIUM CLASSES**

Bedford, Dundee, Ida, Summerfield, and Whiteford have joined together in an effort to make available to the students of each school the best possible curriculum. Courses will be cooperatively offered to ensure that each student will have the maximum educational opportunities that the schools can provide. Bedford juniors and seniors should consider these courses carefully. If your interests and/or career plans can be served by one of the classes listed, see your counselor.

**AGRIBUSINESS A – COURSE 8401**

**AGRIBUSINESS B – COURSE 8402**

**AGRIBUSINESS C – COURSE 8403**

Grades: 11, 12

Prerequisite: None. Must provide own transportation to Dundee High School

This two-hour class is offered at Dundee High School and surveys a variety of topics important to a person pursuing an agriculture-related career. Areas of study will include: marketing of agriculture products, sale and application of fertilizers, herbicides and pesticides, conservation practices, and soil and water management. Students will attend the classroom three days per week and will report to an assigned off-campus training site two days each week. **DUNDEE HIGH SCHOOL**

### **MCCTE (MONROE COUNTY CAREER & TECHNICAL EDUCATION) Programs**

Monroe County Career & Technical Education Programs are available to Airport, Bedford, Dundee, Ida, Jefferson, Mason, Monroe, Summerfield, and Whiteford High Schools. These programs are:

- Auto Body Program
- Nurse Aide Training Program
- Cosmetology

These programs train with classroom instruction and hands-on experience with placement locations related to the program. An entrance interview is conducted in the spring of the year for program selection by an Intermediate School District Coordinator. Students may see their counselor for further explanations or Mrs. Murphy in the Career Technical Office, Room E-30. See the descriptions of each on this page.

**AUTO BODY PROGRAM A – COURSE 8631**

**AUTO BODY PROGRAM B – COURSE 8632**

**AUTO BODY PROGRAM C – COURSE 8633**

Grades: 11, 12

Prerequisite: Student must be 17 years old or older, have a valid driver's license, and must provide own transportation to placement.

Rough bumping, straightening, shrinking and stretching metal, filling, finishing, sanding, painting, metal welding, cutting, glass removal, automotive systems repairs are all skills learned in Auto Body. Placement will be at an individual auto body shop Monday through Friday approximately 4 hours each day. There are a limited number of positions available and an entrance interview will be conducted by an Intermediate School District Coordinator for acceptance into the program.

**COSMETOLOGY 1 A – COURSE 8501**  
**COSMETOLOGY 1 B – COURSE 8502**  
**COSMETOLOGY 1 C – COURSE 8503**  
**COSMETOLOGY 2 A – COURSE 8504**  
**COSMETOLOGY 2 B – COURSE 8505**  
**COSMETOLOGY 2 C – COURSE 8506**

Grades: 11, 12

Prerequisite: Good attendance. Must provide own transportation.

This is a two year-1,500 hour course designed to prepare students for professional employment as hairstylist, hair color specialist, permanent waver, hair cutter, and manicurist. The student not only learns theoretical concepts during 415 classroom lecture hours, but must also apply those concepts during 1,085 hours of laboratory work and clinic practice under the direct supervision of expert instructors. The student is taught employability skills for entry into the beauty industry and prepared for the State Licensing examination. **Classes are taught at the Michigan College of Beauty in Monroe, Michigan, Tuesday - Friday from 12:45 - 4:30 pm and Saturday from 8:00 am - 4:00 pm.**

**NURSE AIDE TRAINING PROGRAM – COURSE 8653**

Grades: 11, 12

Prerequisite: Be 17 ½ years old to take the State certification test at the end of the year and provide own transportation.

Students will learn patient care, nutrition, medical/nursing terminology, clinical skills, health care teamwork, and patient communication, have a hands-on experience in the Nurse Aide field, and prepare for state certification as a nurse's aide. Classroom instruction will be one day a week with training in a nursing home four hours a day after school one day a week. There are a limited number of positions available and an entrance interview will be conducted by an Intermediate School District Coordinator for acceptance into the program. **MONROE**

## **OPEN DOOR ALTERNATIVE HIGH SCHOOL**

Alternative education is a generic label applied to a variety of educational programs. Open Door Alternative simply means an alternative to the traditional school setting. Alternative's biggest points of departure from traditional schools is in the area of Teacher/Student ratio and interaction, instruction, curriculum and the student's increased responsibility for initiating their work.

Open Door is a program of choice. It was established in 1987 as a non-traditional program based on the premise that there are legitimate differences in people and in the way they learn. The program's primary purpose is to help students who have experienced failure or very little success in their former educational experience.

Open Door is an educational program designed for 16 to 19 year old students working towards a regular Bedford High School diploma.