

# FAIRVIEW HIGH SCHOOL

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## Course Description Guide

**This book provides a list of courses offered. Due to restricted resources, and/or low numbers of registrants, some course sections offered during any semester may be restricted or not offered.**

**The school schedule of classes is built from your requests. If you do not select a class now, it may not be available as a choice later. This is especially true of elective courses. Please make sure you consult with your current teachers to select the appropriate level of class because it is difficult to change levels during in the fall. Level changes will only occur if they are requested directly from a teacher.**

**To access this guide online visit:**

**<http://bvsd.org/schools/FairviewHS/academics/pages/KeyAcademicResources.aspx>**

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# VISUAL ARTS

## **A35 Foundations in Art**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fee: \$25

Students can expect a wide variety of two-dimensional and three-dimensional experiences in this survey course. Students will be encouraged to think creatively as they develop ideas for their various assignments and discover their personal preference for creating two or three-dimensional art. The elements and principles will be stressed and art history will be an informal component. Some media possibilities could be pencil, tempera, watercolor, clay, paper-mache, wire, tooling metal, scratchboard, mixed media and others.

*HEAR Academic Elective*

## **A41 Drawing & Painting 1**

Level: 9-12

Course Length: 1 semester

FHS Prerequisite: A35 Foundations in Art

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fee: \$25

Students can expect to gain a strong foundation in drawing and painting in this beginning level class. Composition, the visual elements, the principles of design, and the basic techniques and concepts of both drawing and painting will be covered. The end goals are to increase artistic self confidence, increase one's understanding of the basics of drawing /painting and to produce successful works. Media used could be various pencils, pen and ink, charcoal, pastel, watercolor, tempera, acrylic, etc. Techniques covered could include contour, crosshatching, blending, stipple, watercolor techniques, painting techniques and others.

*HEAR Academic Elective*

## **A42 Drawing & Painting 2**

Level: 10-12

Course Length: 1 semester

Prerequisites: A35 Foundations in Art and A41 Drawing & Painting 1

Credits: 5

Graduation Requirement: Fine Arts 2010 and beyond

Fee: \$25

This second level course builds upon the experiences of Drawing and Painting 1. Students who choose to take this course should be confident with their drawing skills and ready to produce more complex finished drawings and paintings. An emphasis will be on the development of a more personal style, sophisticated approaches to the development of ideas, development of a greater awareness to art beyond school, and the introduction of new techniques. Artists, artistic movements and cultures may be studied as aesthetics, art history and art criticism are addressed. Media used could be various pencils, pen and ink, charcoal, oil pastel, watercolor, acrylic, etc. Techniques covered could include watercolor techniques, acrylic painting techniques, and drawing techniques.

*HEAR Academic Elective*

## **A43 Drawing & Painting 3**

Level: 11-12

Course Length: 1 semester

Prerequisites: A35 Foundations in Art, A41 Drawing & Painting 1 and A42 Drawing & Painting 2

Credits: 5

Graduation Requirement: Fine Arts 2010 and beyond

Fee: \$25

This third level class builds upon the drawing and painting experiences of level 2. The class will provide opportunities to expand drawing, painting and related skills; to develop a personal style; to develop creative ideas; to expand one's awareness to art beyond school, and to provide instruction based on a student's particular art or career goals when desired. Proficiency in basic skills will be expected.

Artists, artistic movements and cultures may be studied as aesthetics, art history and art criticism are addressed. Some media possibilities are various pencils, pastel, oil pastel, mixed media, acrylic, oil, printing inks, encaustic, and egg temperas.

*HEAR Academic Elective*

## **A44 Drawing & Painting 4\***

**\* Drawing & Painting 4 is not always offered, please speak to instructor.**

Level: 11-12

Course Length: 1 semester

Prerequisites: A35 Foundations in Art, A41 Drawing & Painting 1, A42 Drawing & Painting 2 and A43 Drawing & Painting 3

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

This fourth level advanced course gives students an additional opportunity to produce drawings, paintings, and related works for a portfolio. The class will provide opportunities to expand drawing, painting and related skills; to develop a personal style; to develop creative ideas; to expand one's awareness to art beyond school, and to provide instruction based on a student's particular art or career goals when desired. Artists, artistic movements and cultures are studied as aesthetics, art history and art criticism are addressed. Media possibilities are various pencils, pastel, oil pastel, mixed media, acrylic, oil, printing inks, encaustic, and egg tempera. Students may be instructed independently or as a class group.

*HEAR Academic Elective*

## **A55 Studio Art 1**

Level: 10-12

Course Length: 1 semester

Prerequisite: None

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fee: \$25

This is a basic course designed to expose students to commercial/studio art techniques and thinking processes. Design will be stressed with a variety of materials and techniques utilized to produce finished works of art for commercial purposes. Students will become knowledgeable producers and consumers of visual art. Commercial design, graphic design, textiles, fiber design, **jewelry design**, animation, printmaking, bookmaking and other two and three dimensional art experiences, basic design principles, drawing, lettering, painting, airbrush, and mixed media will also be addressed.

*HEAR Academic Elective*

## **A56 Studio Art 2**

Level: 10-12

Course Length: 1 semester

Prerequisites: A55 Studio Art 1

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fees: \$25

This is a second level course designed to give students time to expand their skills and increase their confidence in the area of commercial/studio art. Proficiency of basic skills will be expected and more advanced assignments will be given. Students may be directed individually or as a class group.

*HEAR Academic Elective*

## **A57 Studio Art 3**

Level: 11-12

Course Length: 1 semester

Prerequisites: A55 Studio Art 1 and A56 Studio Art 2

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fees: \$25

This third level course is designed to give students time to expand their skills and increase their confidence in the area of commercial/studio art. Proficiency of basic skills will be expected and more advanced assignments will be given. Students may be directed individually with the student's particular art interest or career goals in mind or as a class group. Students may be expected to set their own goals and deadlines.

*HEAR Academic Elective*

## **A71 Photography 1**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fees: \$35 Camera required.

This introductory course to traditional black and white 35mm photography teaches basic camera handling, film processing, and darkroom procedures. Students learn how to control light to produce an aesthetically pleasing image on light sensitive film. Composition and the elements and principles of art are addressed. In addition, pinhole cameras, photograms, special effects, and the history of photography may be addressed.

*HEAR Academic Elective*

## **A72 Photography 2**

Level: 9-12

Course Length: 1 semester

Prerequisites: A71 Photography 1

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fees: \$35 Camera required.

This second level course will build upon experiences of level 1. This course deals with improving the student's ability to see, take and create a photographic image. Students may be given opportunities to work with sepia toning, hand coloring, multiple images, slides, special films, digital images, and other photo techniques and processes are included. Exemplars in photography may also be examined.

*HEAR Academic Elective*

## **A73 Photography 3**

Level: 11-12

Course Length: 1 semester

Prerequisites: A71 Photography 1 and A72 Photography 2

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fees: \$35 Camera required.

This third level course will build upon experiences of level 2. This course expands the student's ability to see, take and create a photographic image. Students may be given opportunities to work with medium format, sepia toning, hand coloring, multiple images, slides, special films, digital images, specialty lenses, filters and other photo techniques and processes. Exemplars in photography may be addressed.

*HEAR Academic Elective*

## **A74 Photography 4\***

**\* Photography 4 is not always offered, please speak to instructor.**

Level: 11-12

Course Length: 1 semester

Prerequisites: A71 Photography 1, A72 Photography 2 and A73 Photography 3

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fees: \$35 Camera required.

This fourth level course will build upon experiences of Level 3 to expand darkroom and photo taking skills and increase the confidence of the students as photographers. Opportunities to work with medium format, sepia toning, hand coloring, multiple images, slides, special films, digital images, specialty lenses, filters and other photo techniques and processes are included. Exemplars in photography may be studied. Instruction may be given on an individual basis with the student's particular career goals or artistic vision in mind.

*HEAR Academic Elective*

## **A80 Portfolio Art**

Level: 10-12

Course Length: 1-6 semesters

Prerequisites: Highly successful completion of 2 levels of any art course, plus permission of instructor.

Credits: 5 per semester

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Fees: \$25

This course is imperative for the student who is preparing a portfolio of art for entrance into college or art school. Guidance and instruction on portfolio building will be given with the individual's goals in mind. Students will be expected to initiate and carry out ideas on a more independent basis, and they will choose their own materials. This course may be taken for up to six semesters, not necessarily sequential, for credit.

*HEAR Academic Elective*

## **A110 Digital Art and Design 1**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

This introductory course deals with controlling computer technology to produce an artistic image. Students will learn computer illustration techniques, image manipulation, digital camera use, graphic design visual literacy, and the principles and elements of art in composition. Some artistic movements such as Pop Art and Surrealism will also be studied as they relate to student projects.

*HEAR Academic Elective*

## **A111 Digital Art and Design 2**

Level: 9-12

Course Length: 1 semester

Prerequisite: A110 Digital Art & Design 1

Credits: 5

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

This course extends the fundamental concepts and skills of Digital Art and Design I of using computer technology to produce an artistic image. Students further advance their computer illustration techniques, image manipulation, digital camera use, graphic design knowledge, art history concepts, visual literacy and the principles and elements of art in composition.

*HEAR Academic Elective*

## **I64 IB Visual Arts SL/HL Wt.**

Level: 11-12

Course Length: 2 semesters, may be repeated

Prerequisites: A35 Foundation in Art

Credits: 10 (20) if repeated

Graduation Requirement: Humanities 2008-09, Fine Arts 2010 and beyond

Strongly recommended: Portfolio Development

IB art is for the serious student who is willing to generate a minimum of 16 quality pieces of art in a year. The student will also develop a sketchbook/journal that includes sketches and art history topics. The final portfolio and sketchbook project are evaluated by an outside examiner. This class will earn a weighted grade and, as with all art classes, there is a lab fee requirement. Approximately eight pieces per semester and one workbook/sketch book per year. Preparation for the AP Studio Art test is also available to students in this class; with the HL we look for 24-36 pieces. *Note: FHS requires a minimum of 24 SL/36 HL quality pieces of art in a year.*

*HEAR Academic Elective*

## **BUSINESS & MARKETING**

### **B11 Word Processing I**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience 2008 and beyond

This semester course is a review of the keyboard on an individual basis with emphasis on mastery in speed, accuracy, personal business letters and simple tabulation.

### **B41 Business Foundations**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience 2008 and beyond

Design a business in project form and attempt to make profitable decisions! Learn how to use the computer as a tool as you formulate and present your business decisions. Units of instruction may include: forms of business ownership, factors in locating a business, marketing, finance, obtaining and training employees, financial statements, and small business managements.

### **B42 Finance**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience 2008 and beyond, Money Management 2010 and beyond (for more information, visit: <http://bvsvd.org/schools/FairviewHS/academics/Pages/BusinessComputerEducation.aspx>)

This one semester course is designed to help students develop their abilities to make wise consumer decisions by recognizing, understanding, and comparing the alternatives facing them as consumers. Budgeting, purchasing decisions and consumer credit, banking services, investing, life, auto, and property insurance, income taxes and housing are some of the topics covered.

### **B52 Accounting 1**

Level: 10-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience 2008-09, Money Management 2010 and beyond (for more information, visit: <http://bvsvd.org/schools/FairviewHS/academics/Pages/BusinessComputerEducation.aspx>)

This is a one semester introductory course in double entry accounting procedures. Students will learn to keep financial records for a service or retail business. Principles covered include the bookkeeping cycle, debt credit theory, financial statements, use of

various journal and ledgers, worksheets, accounts receivable and payable, and payroll systems. Computers will be used for simulation and projects.

## **B60 Business Management**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience 2008 and beyond, Money Management 2010 & beyond (for more information, visit: <http://bvsd.org/schools/FairviewHS/academics/Pages/BusinessComputerEducation.aspx>)

Students apply the management principles of planning, organizing, directing and controlling by forming and managing their own companies. Students learn to use computers for preparing presentations, weekly cash flow projections, selling price spreadsheets, and annual reports to stockholders.

## **B80 Introduction to Marketing**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience 2008 and beyond

Introductory course is for students interested in marketing. The course explores the fundamentals of marketing including economics, sales, product/service planning, promotion/ advertising, market research logistics, human relations, communications, and marketing career development.

## **I27 IB Business and Management (SL) Wt.**

Level: 11-12

Course Length: 2 semesters

Prerequisites: B41 Business Foundations

Credits: 10

Graduation Requirements: Practical Experience 2008 and beyond

This course will provide students with an extensive and critical study of local, national, and international business activities. The course is designed to be a broad introduction to basic principles and practices of businesses. Emphasis will not only be put on the technical aspects of business, but also on the more pragmatic understanding of day-to-day functions.

# **COMPUTER EDUCATION**

## **D77 Java**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credit: 5

Graduation Requirements: Practical Experience 2008 and beyond Applied Tech & Computer Science 2010 and beyond

This one semester introductory course to Java programming presents an overview of Object Oriented Programming style as it differs from procedural programming. Topics include but are not limited to: data types, variables, and arithmetic, strings, arrays, streams and files, graphics, and methods and constructions.

*HEAR Academic Elective*

## **D81 Computer Basic Programming**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credit: 5

Graduation Requirements: Practical Experience 2008 and beyond, Applied Tech & Computer Science 2010 and beyond

This one semester course provides an introduction to computer programming using the BASIC language. It emphasizes fundamental instruction in problem analysis, which in turn will provide for well-structured programs. Students will write programs, edit for mistakes, and run their programs on the computer.

## **D78 Advanced Placement Computer Science Java Wt.**

Level: 9-12

Course Length: 2 semesters

Prerequisites: D77 Java, D81 Computer Basic Programming or instructor approval

Credit: 10

Graduation Requirements: Practical Experience 2008 and beyond, Applied Tech & Computer Science 2010 and beyond

This course prepares students for the AP Computer Science test. Advanced coursework in data types, variables, and arithmetic; strings, arrays, graphics, and methods and constructions, etc.

## **D87 Internet/Web Page Design**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credit: 5

Graduation Requirements: Practical Experience 2008 and beyond, Applied Tech & Computer Science 2010 and beyond  
This course is designed to provide students the opportunity to apply programming skills to web development.

## **I23 IB Computer Science Java Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisites\*: D85 AP Computer Science Wt.

\*Note: FHS prerequisites are D77 Java, D81 Computer Basic Programming or instructor approval

Credit: 10

Graduation Requirements: Practical Experience 2008 and beyond, Applied Tech & Computer Science 2010 and beyond

This course is a continuation of AP Computer Science (JAVA) and concentrates on the concepts needed for the IB Computer Science Exam. An independent project will be required as an IB internal assessment. Students may also take the AP Computer Science AB exam.

## **ENGLISH AS A SECOND LANGUAGE (ESL)**

In order to meet the needs of English Language Learners, a variety of ESL courses are offered. Sheltered instruction is a method of delivering content instruction to students to make content more comprehensible. Both language and content objectives are planned into the curriculum. The content objectives are based upon the standards, benchmarks, and curriculum for the academic content area being taught. Sheltered instruction incorporates the use of a variety of techniques including modeling, demonstrations, graphic organizers, visual aids, vocabulary previews, predictions, cooperative learning, peer tutoring, multicultural content, and other high quality teaching techniques. There is a focus on student engagement and interaction with the teacher, with other students, and with the text, as well as the frequent use of supplementary materials to support the core academic text.

Sheltered instruction can be provided in many other courses that are not identified as sheltered when the needs of the students who are enrolled in them require it. Students should work with their ESL teacher and/or counselors to discuss these alternatives, especially in courses beyond those required for graduation.

### **LA0 Study Skills (Sheltered)**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Language Arts Elective

This class is for ESL students who need help in their academic classes. Typically offered at the end of the day, study skill strategies and techniques appropriate to the Limited English Proficient learner are instructed and applied to academic assignments. Students may work on homework with tutors and teachers. Supplemental materials are available for students. Teachers for this class keep in contact with the students' academic course teachers to monitor their progress.

### **L06 Ninth Language Arts (Sheltered)**

Level: 9

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Language Arts Ninth Grade

In this course, students are exposed to various literary genres in order to think critically and write effectively. Students develop paragraph and essay writing skills as they improve their grammar, usage and spelling. Students study literary devices to enhance their comprehension and enjoyment of reading, as well as to sharpen skills in written and oral communication. Vocabulary building and ongoing use of research skills is emphasized. Audio-visual materials are used to aid language comprehension.

### **L49 World Literature and Composition (Sheltered)**

Level: 10

Course Length: 2 semesters

Prerequisites: L08 Ninth Grade LA 1 & 2 or equivalent, teacher recommendation

Credits: 10

Graduation Requirement: Language Arts, World Lit/Comp

World Literature and Composition is a year long course. The course includes the study of classic world literature to current world literature. In addition, instruction in writing techniques is an integral part of instruction. Students build their composition skills to increase their abilities to write clearly, correctly, and logically for a variety of purposes and audiences. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. Audiovisual materials are used to aid reading comprehension. Audiovisual materials are used to aid reading comprehension.

## **L65 American Literature and Composition (Sheltered)**

Level: 11-12

Course Length: 2 semesters

Prerequisites: L49 World Lit. & Comp. (Sheltered) or department recommendation

Credits: 10

Graduation Requirement: Language Arts

American Literature and composition is a year long course. The course includes the study of classic American literature to current American literature. In addition, instruction in writing techniques is an integral part of instruction. Students build their composition skills to increase their abilities to write clearly, correctly, and logically for a variety of purposes and audiences. Literary analysis through critical thinking is emphasized in class discussion and writing assignments. Audiovisual materials are used to aid reading comprehensions.

## **LA1 English as a Second Language 1**

Level: 9-12

Course Length: 1 or 2 semesters

Prerequisites: No previous study of English, or department recommendation

Credits: 5 per semester

Graduation Requirement: Language Arts Ninth Grade, Language Arts Elective, Communications

ESL-1 emphasizes listening, speaking, reading, and writing. Students study practical English vocabulary and sentence structure. They develop reading and writing skills through participation in acculturation activities. Students will learn skills applicable to content area classes. This is a two-hour block class.

## **LA2 English as a Second Language 2**

Level: 9-12

Course Length: 2 semesters

Prerequisites: LA1 English as a Second Language 1 or department recommendation

Credits: 10

Graduation Requirement: Language Arts Ninth Grade, Language Arts Elective, Communications

ESL-2 emphasizes listening, speaking, reading and writing. Students study grammar, idioms, pronunciation and cultural awareness. The class also emphasizes reading comprehension and writing development. In addition, they will learn skills applicable to content area classes.

## **LA3 English as a Second Language 3**

Level: 9-12

Course Length: 2 semesters

Prerequisites: LA2 English as a Second Language 2 or department recommendation

Credits: 10

Graduation Requirement: Language Arts Ninth Grade, Language Arts Elective, Communications

ESL Language Development emphasizes a variety of communication skills: listening, speaking, reading and writing. This class will provide a necessary bridge for students between ESL 2 and Sheltered World Literature and Composition. Students will develop reading and writing skill integral to their success in subsequent literature courses. This class begins with an emphasis on the structural elements of written communication, i.e. parts of speech, sentences and paragraph development, and essay writing. Poetry, drama, short stories, adapted classics, and nonfiction prose will be used to increase students' reading fluency and comprehension. Continued study of grammar and usage, vocabulary development, outlining, summarizing, analyzing, and the use of context clues will fill in gaps in students' English language development. Students will gain confidence in delivering speeches and oral presentations in front of their peers.

## **FAMILY & CONSUMER STUDIES**

### **H20 Catering 1**

Level: 10-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience

Broaden your understanding and appreciation of food! Learn about nutrition and food preparation while applying new skills in a lab experience and catering events. Projects reflect worldwide culinary traditions, while respecting current diet and nutrition guidelines. Class format includes hands-on instruction, cooperative activities, individual and group projects, and guest speakers.

## **H21 Catering 2**

Level: 10-12

Course Length: 1 semester

Prerequisites: H20 Catering 1

Credits: 5

Graduation Requirements: Practical Experience

Catering 2 provides the opportunity to apply advanced skills in a restaurant or catering format. Catering projects will reflect the culinary traditions of the United States as well as international cuisine. Class format will include, but not be limited to, cooperative lab experiences, individual and group projects, presentation by guest speakers, and use of a variety of state of the art technologies. Personal and leadership activities from the vocational student organization Family, Career and Community Leaders of America are integrated into class activities. Consistent daily participation is expected.

## **H30 Fashion Production**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience

Students will develop career and technical skills in the areas of fashion merchandising, design and apparel production. Practical experiences will be provided through labs and projects. Units include fashion theory, elements and principles of design, merchandising, pattern alterations, apparel production, and clothing care. Students will provide their own materials for apparel production projects.

## **H42 Interiors**

Level: 10-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Practical Experience

Create it, design it and decorate it from floor-to-ceiling, wall-to-wall and everything in between. A variety of applied interior design projects will integrate knowledge, skill and practices required for personal enjoyment and careers in housing, interiors, and furnishings. Students will be responsible for creating a final design project that applies the principles learned in the course.

## **H50 Living on Your Own (Year)**

Level: 11-12

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirements: Practical Experience AND Health 2008-2009, Practical Experience/Money Management AND Health, Elective 2010 and beyond

This year long course is designed to help you sharpen your focus on your own life. It is to help you gain a clear picture of who you are, how you got that way, and most importantly, to help you make wise choices in your life. Topics include: relationships, housing, personal finance, parenting, communications, healthy life style, food and nutrition, and preparing for life after high school.

## **H74 Teen Challenges**

Level: 9-12

Course Length: 1 semester

Prerequisites: Recommended for all 9th/10th grade students. Parental permission is required.

Credits: 5

Graduation Requirement: Practical Experience OR Health

What are the problems that you have to face as a ninth or tenth grade student? How can you know what would be the best decisions for your life? Here is an opportunity to examine challenges and options that teenagers face in developing relationships and making healthy choices. The following topics will be emphasized: personal development and goal setting, communication and conflict resolution skills, developing positive relationships, understanding sexuality, wise decision-making skills, healthy lifestyles, teens and the law, violence in society, substance abuse and addiction. The class is a chance to compare your ideas, thoughts and experiences with other students and experts in the community. BVSD Health Curriculum topics will be covered.

# HEALTH EDUCATION

## **G50 Issues in Health**

Level: 10-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirements: Health

The health curriculum for tenth grade places a strong emphasis on skill development in the areas of health knowledge acquisition, accessing health resources, practicing healthy behaviors, analyzing the influence of media and other cultural influences on health decisions developing communication skills, setting goals, and making health-related decisions, and advocating for personal, family, and community health.

## **I87 Pre IB Fit for Life**

Level: 10

Course Length: 2 semesters

Prerequisites: Comprehensive Physical Education

Credits: 10

Graduation Requirement: Health

This course fulfills the graduation requirement for Health Education and offers 5 semester hours credit in Physical Education and 5 semester hours credit in Health. The class will alternate between classroom days and physical activity days, integrating fitness and lifestyle activities with an in-depth study of health and wellness topics. This course is based on the National Health Standards and the CDC's 6 Priority areas for Health Education.

# INDUSTRIAL TECHNOLOGY

## **J10 Drafting**

Level: 9-12

Course Length: 1 or 2 semesters (**FHS only offers this course as a two semester class**)

Prerequisites: None

Credits: 5 – 10

Graduation Requirement: Practical Experience/Applied Technology & Computer Science

Drafting is the root of all industry. This entry-level, project based class will expose the student to AutoCAD, which is the primary tool used by engineers and architects. Students complete units in sketching, geometric constructions, isometric views and layout. Supplemental focus will include an introduction to various forms of engineering. Students will need to purchase some supplies, and there is a fee assessed for paper costs.

## **J31 Industrial Design: CAD**

Level: 9-12

Course Length: 1 or 2 semesters

Prerequisites: J10 Drafting

Credits: 5 – 10

Graduation Requirement: Practical Experience/Applied Technology & Computer Science

Industrial Design takes the student with drafting core knowledge, and puts focus on the design phase. This is a process, which takes an idea from the mind, and puts a product in the hand. This class will also place a secondary focus on the expansion of their CAD knowledge, and the use of the program to design machines to solve problems.

## **J32 Architecture**

Level: 10-12

Course Length: 2 semesters

Prerequisites: J10 Drafting or instructor approval

Credits: 10

Graduation Requirement: Practical Experience/Applied Technology & Computer Science

Architecture is designed to take the student with drafting/CAD knowledge, and focus on residential design and construction.

Students will be introduced to many facets of construction, and then they will design a residential structure. Upon completion of the class, the expectation will be for them to have produced a near full set of plans that could be used to build a house.

## **J34 CAD I**

Level: 10-12

Course Length: 2 semesters

Prerequisites: J31 Industrial Design: CAD or J32 Architecture

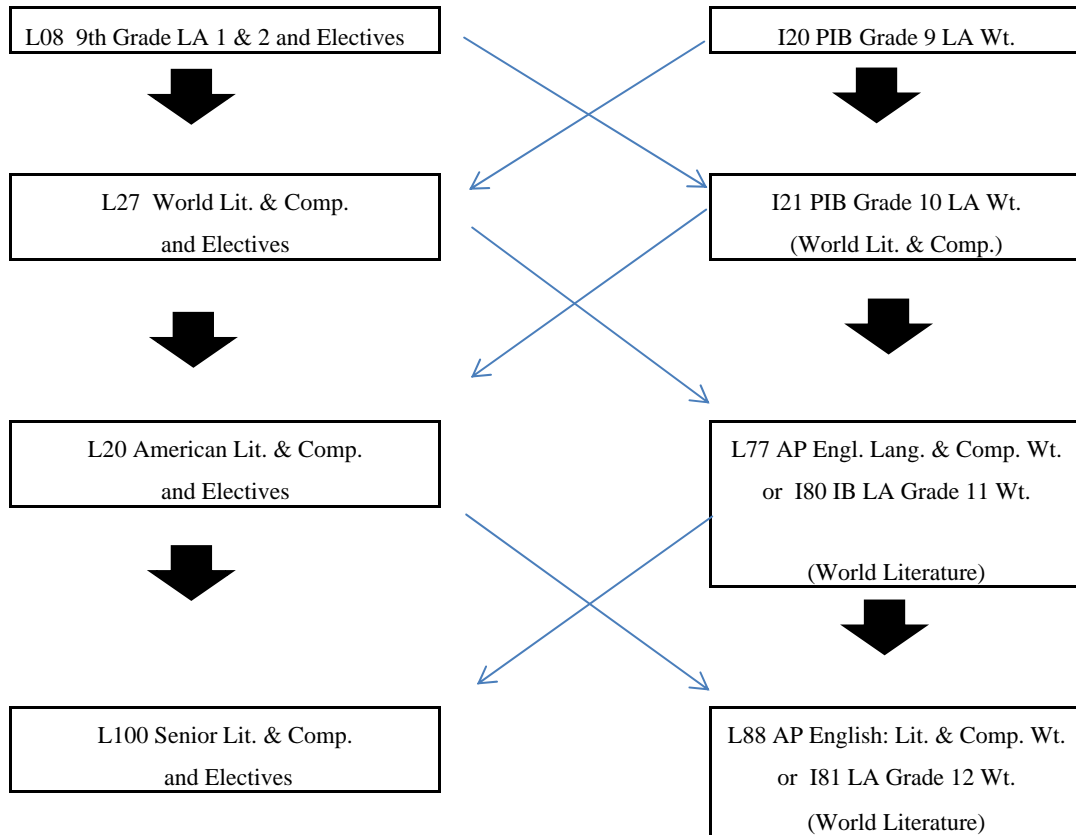
Credits: 10

Graduation Requirement: Practical Experience/Applied Technology & Computer Science

This is an advanced level course which provides students the opportunity to expand their skills in mechanical and architectural drafting. This course is a must for students planning to major in any field of engineering or architecture. This class provides instruction in computer-aided design (CAD) in both a mechanical and an architectural setting. Fee assessed for materials used.

## LANGUAGE ARTS

### Language Arts Pathways



<b><u>ELECTIVES</u></b>		
L50 Readers' Workshop I	LE6 Adv. Journalism.	LE8 Play Production
L19 Creative Writing	LE7 Yearbook	X59 Stagecraft
L34 Public Speaking	L35 Intro to Theatre	LE0 Film Literature
LE1 Journalism	L36 Acting	



Typical pathway



Possible pathway

The Language Arts Department supports the philosophy of self-selection. These suggestions and possibilities do not preclude reevaluation of achievement and skill levels to determine appropriate level of challenge.

**All 9<sup>th</sup> graders must select one of the following courses:**

### **L08 Ninth Grade Language Arts 1 & 2**

Level: 9

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Language Arts – 9<sup>th</sup> grade

Students in Ninth Grade Language Arts will receive instruction in composition and literary analysis. Ninth Grade Language Arts is a survey course that exposes students to a variety of reading and writing activities. Students read novels, short stories, plays, essays and poems. Students write in a variety of styles.

*HEAR English/NCAA Clearinghouse approved course*

### **I20 Pre IB Grade 9 Language Arts Wt.**

Level: 9

Course Length: 2 semesters

Prerequisites: 8th Grade English

Credits: 10

Graduation Requirement: Language Arts – 9<sup>th</sup> grade

This course is a year long honors-level preparatory course for Sophomore Pre-IB English/Advanced World Literature and Composition (I21) and for the junior-senior IB English or AP English. Students will concentrate on American literature and world literature. Emphasis will be on vocabulary building, close reading of the text, grammatically correct writing, argumentative and critical writing with textual support, and oral commentary about literature. A variety of texts and learning strategies are used to develop students' individual strengths in reading, writing, and speaking. Summer reading is required for entering students.

*HEAR English/NCAA Clearinghouse approved course*

**All 10<sup>th</sup> graders must select one of the following courses:**

### **L27 World Literature and Composition**

Level: 10

Course Length: 1 year

Prerequisites: 9th grade Language Arts

Credits: 10

Graduation Requirement: Language Arts, World Lit/Comp

World Literature and Composition is organized in chronological regional or thematic order. It will be complemented by the sophomore study of World History. Critical reading and analysis of world literature from 3500 B. C. to the present will be the core of the course. Cause/effect, comparison/contrast, persuasive, and research modes of composition will be taught. Grammar, mechanics, vocabulary building and spelling will be emphasized throughout the course to improve and enhance the quality of student writing.

*HEAR English/NCAA Clearinghouse approved course*

### **I21 Pre IB Grade 10 LA Wt. (World Literature and Composition)**

Level: 10

Course Length: 2 semesters

Prerequisites: 9th Grade Language Arts

Credits: 10

Graduation Requirements: Language Arts, World Lit/Comp

This course is a year-long honors-level preparation for the junior-senior IB English class or AP English. Students further refine the skills introduced in Freshman Pre-IB English/Advanced (I20) while analyzing World Literature. Summer reading must be completed by the first day of class or students may be dropped from the program. The course focuses on selected works by the world's masters. Practice in oral work and the formal commentary (both oral and written) is included. Writing is assigned at the advanced composition level. Summer reading required.

*NCAA Clearinghouse approved course*

**All 11<sup>th</sup> graders must select one of the following courses:**

### **L20 American Literature and Composition**

Level: 11

Course Length: 2 semesters

Prerequisites: World Literature and Composition

Credits: 10

Graduation Requirement: Language Arts, American Lit/Comp

American Literature and Composition builds on skills learned in World Literature and Composition. This course includes the study of classic American literature from the 16th century to the present. Instruction in writing techniques is an integral part of the course. Students refine their composition skills to increase their abilities to write clearly, correctly, and logically for a variety of purposes and audiences. Grammar, vocabulary and the vocabulary of literature will be included. Literary analysis through critical thinking is emphasized in class discussions and writing assignments.

*HEAR English/NCAA Clearinghouse approved course*

## **L77 AP English Language and Composition Wt.**

Level: 11

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Language Arts, American Lit/Comp

This course prepares students for the AP exam in Language and Composition. Students develop the writing and language skills required for critical and stylistic analysis. Students explore the ideas of noted philosophers and major American writers while perfecting their own writing skills. Students work to become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. This course also provides the practice for student to become flexible writers who can compose in a variety of modes and for a variety of purposes.

*HEAR English/NCAA Clearinghouse approved course*

## **I80 IB LA Grade 11 Wt. (World Literature)**

Level: 11

Course Length: 2 semesters

Prerequisites: Pre IB Grade 10 LA Wt. (World Literature and Comp) or consent of instructor

Credit: 10

Graduation Requirement: Language Arts, World Lit/Comp

This course develops the skills used in literary analysis based on close reading of selected IB works incorporating a world literature component. Frequent writing projects are assigned. Intensive practice is given in oral presentation, especially formal commentary. The curriculum not only answers to the particularities of IB goals, but also equips students for the AP Exam in English Literature and Composition. Summer reading required. This course satisfies the American Literature requirement.

*HEAR English/NCAA Clearinghouse approved course*

## **12<sup>th</sup> Grade:**

### **L100 Senior Lit. & Comp.**

Level: 12

Course Length: 2 semesters

Prerequisites: American Lit. & Comp.

Credit: 10

Graduation Requirement: Language Arts Elective and Communications

This is a year-long course for seniors. Building on the skills learned in American Lit. and World Lit., the course includes the study of contemporary literature from the early 20<sup>th</sup> century to the present. Instruction of college preparatory writing techniques is an integral part of the curriculum. Students will continue to refine their composition, reading and speaking skills in a variety of genres and contexts. Higher level literary analysis is emphasized in class discussion, writing and formal presentations.

## **L88 AP English: Literature & Composition Wt.**

Level: 12

Course Length: 2 semesters

Prerequisites: Advanced course or Teacher recommendation

Credits: 10

Graduation Requirement: Language Arts Elective

This course will engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should 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. This course will prepare students for the AP English examinations.

*HEAR English /NCAA Clearinghouse approved course*

## **I81 IB LA Grade 12 Wt. (World Literature)**

Level: 12

Course Length: 2 semesters

Prerequisite: IB English 11th Grade (no exceptions)

Credits: 10

Graduation Requirement: Language Arts Elective

This course completes the two-year curriculum begun in IB English 11th grade: the detailed study of Shakespearean drama, non-fiction (essays and autobiography), modern poetry, and modern fiction. Close reading of works in a variety of cultural contexts and the writing of analytic essays are emphasized. A variety of oral work continues. Thorough preparation for the HL or SL IB examination is provided. The two-year curriculum not only answers the particularities of IB goals, but also equips students for the AP Exam in English Literature and Composition. This course imparts advanced college reading and writing skills. Summer reading required.

*HEAR English/NCAA Clearinghouse approved course*

## **ELECTIVES:**

### **L50 Readers' Workshop I**

Level: 9-12

Course Length: 2 semesters

Prerequisites: Self-select or Teacher recommendation

Credits: 10

Graduation Requirement: Language Arts Elective

This course is designed primarily to support readers. Students are involved in a variety of instructor-directed individual and group activities that focus on increasing reading comprehension and vocabulary, building strategies to assist with various types of reading, and developing a lifelong appreciation of reading. Through self-assessments and individual conferences, the needs of each student are determined, and activities are designed to meet those needs. This course emphasizes individual progress and reading enjoyment.

### **L19 Creative Writing**

Level: 10-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Language Arts Elective

This course introduces the student to the writing of fiction, poetry, the personal narrative, drama, screenplay, and creative essay. Students analyze peer and published authors for particular artistic devices in order to understand the writer's skill in narration, dialogue, description, and specific detail. This course provides activities and projects to stimulate latent talent and ideas, to encourage appropriate freedom of expression, and to develop sensitivity to the power of words in the written medium. Students may be required to read their work aloud for class critique. The course may introduce students to appropriate markets for publication.

*HEAR Core/NCAA Clearinghouse approved course*

### **L34 Public Speaking**

Level: 10-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Language Arts, Communication

Public Speaking allows students to develop skills in the preparation, organization, and presentation of speeches. Students practice and deliver prepared and impromptu speeches, to inform, to persuade, to entertain. Students enhance their reading skills through, the oral interpretation of literature. In this course, technique and polish in public speaking are cultivated. Those seeking careers involving exposure to and interaction with the public will particularly benefit from this course.

*HEAR English/NCAA Clearinghouse approved course*

## **OFFERING FOR FALL 2009:**

### **L33 Discussion and Debate**

Level: 11-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Language Arts, Communications

This course is designed to study techniques used in argumentation, forms of discussion, and formal debate. Students will learn the fundamentals of communication and the psychology of persuasion. Skills practiced in this class are applicable to other classes and to participation in the democratic process in our communities, states, and country. The course is based on strong oral components.

*HEAR English/NCAA Clearinghouse approved course*

### **LE1 Journalism, Reporting, Semester (L21 Old)**

Level\*: 10-12

*Note:* FHS will offer this course 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Language Arts Elective

This course offers an in-depth survey of journalism, including news writing, interviewing, and writing stories (news, features, sports, editorials, and columns). It also covers the history of journalism, newspaper terminology, headline writing, copy and proofreading, advertising, page layout, and photo journalism.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **LE6 Advanced Journalism: Publishing, Year**

Level: 10-12

Course Length: 2 semesters

Prerequisites: Intermediate Journalism and teacher recommendation

Credits: 10

Graduation Requirement: Language Arts Elective

Students in this two-semester course are responsible for publishing the school newspaper or newsmagazine and for refining journalistic skills previously acquired. To meet the regular, predetermined production schedule, students are obliged to write stories, to sell and collect advertising, to keep the financial records, and to work for several hours each week outside class on some phase of the publication's production. Students fill top positions in editing, news assigning, accounting, advertising, copy reading, page design, and photography. Students may continue in this course for elective credit.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **LE7 Yearbook**

Level\*: 10-12

Note: FHS will offer this course 9-12

Course Length: 2 semesters

Prerequisites: Instructor approval

Credits: 10

Graduation Requirement: Language Arts Elective

This class produces the yearbook. Work includes writing/editing copy, taking pictures, designing layouts using computer software, editing proof pages, and working with the yearbook company and its representatives. This class demands punctuality, reliability, maturity, and creativity. Since meeting deadlines is the primary concern, students must be willing to commit to work after school. Each student must have permission from the instructor before registering for this class. Students may continue in this course for additional elective Language Arts credit.

*HEAR Academic Elective*

## **THEATRE & FILM:**

### **L35 Introduction to Theatre (Theatre 1)**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Language Arts, Communications

This course provides a foundation in all aspects of theatre: history, play analysis, terminology, basic stage movement, vocal exercises, memorization, character interpretation, basic production principles, and selection and evaluation of plays.

*NCAA Clearinghouse approved course*

### **L36 Acting (Theatre 2)**

Level: 11-12\*

\*Note: Offered at Fairview for levels 9-12

Course Length: 1 semester

Prerequisites: Introduction to Theatre

Credits: 5

Graduation Requirement: Language Arts, Communications

This advanced course concentrates on specialized acting skills. Areas of study include physical and vocal exercises and techniques; reading, viewing, and analyzing plays; psychology of stage movement; advanced research in make-up and costume as applied to characterization; investigation of acting theories and play styles; and final performances.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **LE8 Play Production (Theatre 3)**

Level: 11-12

Course Length: 1 semester

Prerequisites: L35 Introduction to Theatre and L36 Acting

Credits: 5

Graduation Requirement: Language Arts Elective

This course is designed to provide advanced study in theatre arts and production. It gives students interested in theatre opportunities to develop their skills in theatre arts and practice necessary for the successful staging of a play and to allow them in a production situation. The specific goal of the course is to acquaint the students with all major components of production the opportunity to apply these skills practically. Students will actively produce a theatrical presentation. Students may enroll for a second semester of credit.

*HEAR Academic Elective*

## **L38 Stagecraft**

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Practical Experience Elective

This is a course in the theory and practice of using the visual elements of theatre. It includes investigation and practice in scene design, scenery construction, set decoration, lighting, and stage management. Students enrolled in the course will receive practical experience in working with school plays, designing sets, and properties.

*Note: May take multiple times.*

## **LE0 Film Literature**

Level: 11-12

Course Length: 1 semester

Prerequisites None

Credits: 5

Graduation Requirement: Language Arts Elective

Film Literature examines literary and artistic forms as interpreted through film. Students develop literary, verbal, and visual analysis skills through discussion and written critiques. This course promotes an understanding of film's historical progression, its language, its techniques, and its conscious and subliminal effects upon personal and public opinion.

*NCAA Clearinghouse approved course*

## **OFFERING FOR FALL 2009**

### **L46 Video and Film Production\***

Level: 9-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

In this course, students will write, produce and edit video and film production. Planning responsibility and technical knowledge are emphasized. Students are responsible for planning, handling technical equipment, and employing technical knowledge.

Students will analyze film, video, and television. Students will produce a video or film.

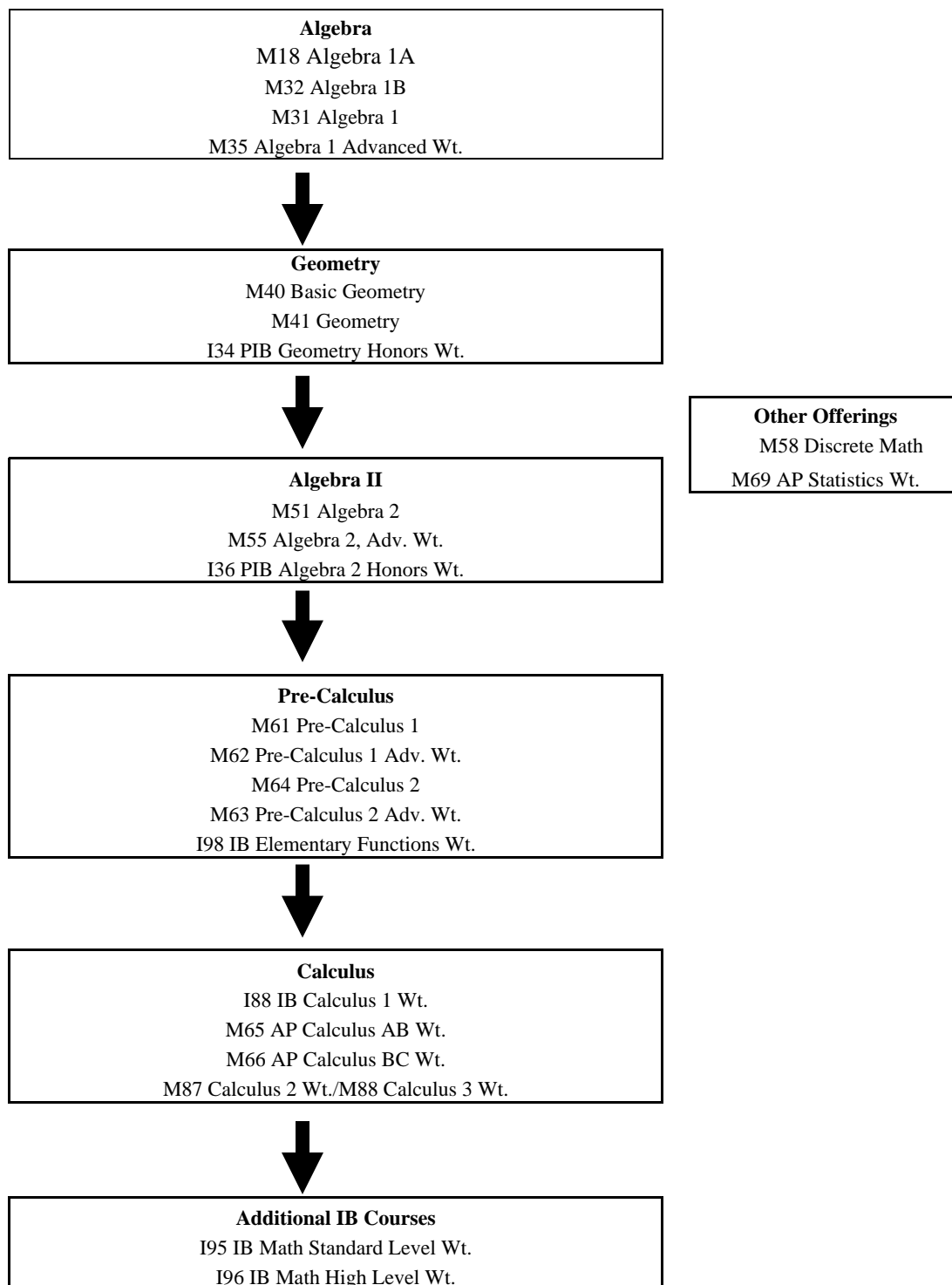
*HEAR Academic Elective*

# MATHEMATICS

## Math Flow Chart

Students will start at different places but generally will follow this sequence.

Each student should be sure to have the required prerequisites (see course description).



## **M18 Algebra 1A\***

*Note: This course replaces Basic Algebra.*

Level 9 – 12

Course Length: 2 semesters

Prerequisite: M21 Math 3 or M30 Pre-Algebra

Credits: 10

Graduation Requirement: Mathematics Algebra I or Higher

Algebra 1A & 1B covers the same material as M31 Algebra 1, but does it in a two-year period. It covers the study of algebraic symbolism, systems of equations, graphing, problem solving, and probability and statistics. The students will build upon their previous knowledge to further understand the characteristics and representations of various functions and relations, including first degree equations and inequalities, polynomials, exponential and radical expressions, and quadratic equations. After completion of Algebra 1A and Algebra 1B, students will continue on to Geometry.

## **M32 Algebra 1B\***

*Note: This course replaces Basic Algebra.*

Level 9 – 12

Course Length: 2 semesters

Prerequisite: M21 Math 3 or M30 Pre-Algebra

Credits: 10

Graduation Requirement: Mathematics Algebra I or Higher

Algebra 1A & 1B covers the same material as M31 Algebra 1, but does it in a two-year period. It covers the study of algebraic symbolism, systems of equations, graphing, problem solving, and probability and statistics. The students will build upon their previous knowledge to further understand the characteristics and representations of various functions and relations, including first degree equations and inequalities, polynomials, exponential and radical expressions, and quadratic equation

## **M31 Algebra 1**

Level 9 – 12

Course Length: 2 semesters

Prerequisite: M21 Math 3 or M30 Pre-Algebra

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

Algebra 1 is the study of algebraic symbolism, systems of equations, graphing, problem solving, and probability and statistics. The students will build upon their previous knowledge to further understand the characteristics and representations of various functions and relations, including first degree equations and inequalities, polynomials, exponential and radical expressions, and quadratic equations.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M35 Algebra 1 Advanced Wt.**

Level: 9 – 12

Course Length: 2 semesters

Prerequisite: None\*

*Note: FHS requires teacher recommendation.*

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

Advanced Algebra 1 is an in-depth study of algebraic symbolisms of equations, and inequalities, graphing, problem solving, and probability and statistics. The students will build upon their previous knowledge to further understand the characteristics and representations of various functions and relations, including first degree equations and inequalities, polynomials, exponential and radical expressions, quadratic equations complex numbers, and rational algebraic expressions.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M40 Geometry Basic**

Level: 10 – 12

Course Length: 2 semesters

Prerequisite: M31 Algebra 1, Credit for 1st semester required for second semester

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

Geometry Basic covers the same topics as Geometry in a less rigorous manor. There is an emphasis on developing understandings that the students can apply to practical applications. The students will study the topics of congruence, similarity, parallelism, perpendicularity, properties of polygons, transformations and circles. The maintenance of algebraic skills will be emphasized.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M41 Geometry**

Level: 9 – 12

Course Length: 2 semesters

Prerequisite: M31 Algebra 1 or M35 Algebra 1, Advanced

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

Geometry presents a thorough study of the structure of the postulation system and the development of formal synthetic proof. It considers the topics of congruence, parallelism, perpendicularity, properties of polygons, similarity, and the relationships of circles, spheres, lines, and planes with respect to space as well as the plane. The maintenance of algebraic skills will be emphasized.

*HEAR Mathematics/NCAA Clearinghouse approved course*

### **I34 PIB Geometry Honors Wt.**

Level: 9-10

Course Length: 2 semesters

Prerequisite: M35 Algebra 1, Advanced or teacher recommendation

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

This course presents a thorough study of the structure of the postulation system and the development of formal synthetic proof with an emphasis on logic. It treats the topic of congruence, parallelism, perpendicularity, properties of polygons, similarity, symmetry, transformations, Venn diagrams, right triangle trigonometry, and the relationships of circles, spheres, lines and planes. In addition, the maintenance of algebraic skills will be emphasized and topics from probability and statistics will be introduced.

*HEAR Mathematics/NCAA Clearinghouse approved course*

### **M51 Algebra 2**

Level: 10-12

Course Length: 2 semesters

Prerequisite: M31 Algebra 1 or M41 Geometry

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

Algebra 2 emphasizes the structure of algebra. The students will study number sets, relations and functions, solutions to first and second degree equations, graphing, exponential and logarithmic functions. Counting principle, probability, statistics, matrices, and right triangle trigonometry are also covered. They will apply their studies to develop understandings of how these topics relate to one another. Conic sections, logic, matrices, sequences and series, and advanced trigonometric topics may be included.

*HEAR Mathematics/NCAA Clearinghouse approved course*

### **M55 Algebra 2 Advanced Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisite: M45 Geometry Adv., I34 PIB Geometry Honors Wt. or departmental recommendation

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

Algebra 2 Advanced will cover the concepts of Algebra 2 with more emphasis on theory and structure and applications. The students will study number sets, relations and functions, solutions to first and second degree equations, graphing, exponential and logarithmic functions, probability, statistics, and trigonometry. The students will make and test conjectures to deepen their understandings of these topics. Conic sections, sequences and series, and advanced trigonometric topics will also be covered.

*HEAR Mathematics/NCAA Clearinghouse approved course*

### **I36 PIB Algebra 2 Honors Wt.**

Level: 9 -11

Course Length: 2 semesters

Prerequisite: I34 PIB Geometry Honors Wt., M45 Adv. Geometry or teacher recommendation

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

PIB Algebra 2 will cover the concepts of Algebra II with more emphasis on theory, structure, and applications. The students will study number sets, relations, functions, solutions, of polynomial, radical, rational, exponential, logarithmic equations. Two and three dimensional vector spaces, conic sections, sequences, and series will also be covered. The students will make and test conjectures to deepen their understandings of these topics.

*HEAR Mathematics/NCAA Clearinghouse approved course*

### **M61 Pre-Calculus 1**

Level: 11-12

Course Length: 1 semester

Prerequisites: M51 Algebra 2 or M55 Algebra 2, Adv. Wt.

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

This course includes the study of polynomial functions, equations, rational functions, matrix algebra, logarithmic and exponential functions, conic sections, binomial theorem, counting probability-statistics, math induction, and the three dimensional coordinate system.

*HEAR Mathematics/ NCAA Clearinghouse approved course*

## **M62 Pre-Calculus 1 Advanced Wt.**

Level: 10-12

Course Length: 1 semester

Prerequisites: M55 Algebra 2, Adv. Wt. or department approval\*

*\*Note: FHS allows I36 PIB Algebra 2 Honors Wt. as a prerequisite.*

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

Pre-Calculus 1 Advanced is designed for highly motivated and mathematically talented students. It covers algebraic and transcendental function, higher degree polynomials, logarithms, and trigonometry in depth

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M64 Pre-Calculus 2**

Level: 11-12

Course Length: 1 semester

Prerequisites: M61 Pre-Calculus 1

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

This course includes the study of circular functions, special angles, graphs, identities, inverse trigonometry functions, solutions of right and oblique triangles, polar coordinate systems and their applications and vectors and their applications in two and three dimensions.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M63 Pre-Calculus 2 Advanced Wt.**

Level: 11-12

Course Length: 1 semester

Prerequisites: M62 Pre-Calculus 1 Adv. Wt.

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

This course will study topics of vectors and polar functions and their related parametric equations, conics, surfaces, cylinders, ellipsoids and parabolas. It will also cover sequences, limits and series.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **I98 IB Elementary Functions Wt.**

Level: 9-12

Course Length: 1 semester

Prerequisite: I36 Pre IB Algebra 2

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

IB Elementary Functions is designed for highly motivated and mathematically talented students. It covers algebraic and transcendental functions, higher degree polynomials, logarithms, and trigonometry in depth.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M65 AP Calculus AB Wt.**

Level: 11-12

Course Length: 2 semesters

Prerequisites: M61 Pre-Calculus and M64 Pre-Calculus 2 or M62 Pre-Calculus 1 Adv. Wt. and M63 Pre-Calculus 2 Adv. Wt.

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

This course is for students with superior motivation and ability in mathematics. AP Calculus AB examines the theory of limits, differentiation, functional analysis, and integration. Students develop problem solving skills through application. Successful students may take the advanced placement exam and receive college credit.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M66 AP Calculus BC Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisite: M65 AP Calculus AB Wt.\*

*\*Note: FHS allows I88 IB Calculus 1 Wt. as a prerequisite*

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

AP Calculus BC involves further application of differentiation and integration. It also includes polar coordinates, differential equations, infinite series, and integration techniques. Successful students may take advanced placement exams and possibly receive college credit.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **I88 IB Calculus 1 Wt.**

Level: 9-12

Course Length: 1 semester

Prerequisite: I98 Elementary Functions Wt.

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

This course is for highly motivated and mathematically talented students. The purpose of this course is to introduce limits, derivatives, graph behavior and optimization, integration and applications to the above topics through problem-solving and mathematical modeling. Most students move on to Calculus BC.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **I95 IB Mathematics Standard Level Wt.**

Level: 11-12

Course Length: 2 semesters

Prerequisite: I88 IB Calculus 1 Wt. or M65 AP Calculus AB Wt.

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

This course will prepare students for the IB Standard Level exam. Students taking this course will be required to take the exam in May. Topics covered are matrices, vectors, functions, calculus, trigonometry, probability and statistics, binomial theorem.

Students are also required to complete at least two internal assessments.

*HEAR Mathematics*

## **I96 IB Math High Level Wt.**

Level\*: 11-12

*Note: FHS is only offering this course to 12<sup>th</sup> graders*

Course Length: 2 semesters

Prerequisite: I88 IB Calculus or M65 AP Calculus AB or M66 AP Calculus BC (preferred)

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

This course prepares students for the IB-HL math exam. Core topics for the course include algebra, functions and equations, circular functions and trigonometry, matrices, vectors, calculus, and statistics and probability. One optional topic is also studied, as selected by the instructor, from the IB syllabus.

*\*Note: Students taking this course are required to take the IB exam in May. Students are also required to complete a least two internal assessments.*

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M87 Calculus 2 Wt.**

Level: 11-12

Course Length: 1 semester

Prerequisite: Teacher recommendation

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

Topics include transcendental functions, methods of integration, polar coordinates, conic sections, improper integrals, vectors, dot and cross products, spherical and cylindrical coordinate systems, and infinite series. Students completing this course will have thorough understanding exponential logarithmic, hyperbolic and inverse trigonometric functions. Students have the option to register for college credit.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M88 Calculus 3 Wt.**

Level: 11-12

Course Length: 2nd semester

Prerequisite: M87 Calculus 2 Wt. and teacher recommendation

Credits: 5

Graduation Requirement: Mathematics Algebra 1 or Higher

Topics include transcendental functions, methods of integration, polar coordinates, conic sections, improper integrals, partial derivatives and multiple integrals, vector-valued functions, vector analysis. Students completing this course will have thorough understanding exponential logarithmic, hyperbolic and inverse trigonometric functions. Students have the option to register for college credit.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **M58 Discrete Math**

Level: 11-12

Course Length: 2 semesters

Prerequisite: M51 Algebra 2

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

Discrete Mathematics allows for students to explore 20th century applications of mathematics. The curriculum is practical in nature and includes apportionment, graph theory, fair division, matrices and their applications to problem solving, and probability and statistics.

*NCAA Clearinghouse approved course*

### **M69 AP Statistics Wt.**

Level: 10-12

Course Length: 2 semester sequence

Prerequisites: I36 PIB Algebra 2 Honors Wt. or M55 Algebra 2 Adv. Wt. or M51 Algebra 2 with Teacher Recommendation

Credits: 10

Graduation Requirement: Mathematics Algebra 1 or Higher

This course is designed to be equivalent to a one-semester, introductory, non-calculus based college course in statistics. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual theses. These are 1) exploring data: observing patterns and departures from patterns, 2) planning a study: deciding what and how to measure, 3) anticipating patterns: producing models using probability and simulation, 4) statistical inference: confirming models. Students who successfully complete the course and AP exam may receive college credit and/or advanced placement for a one-semester college statistics course.

*HEAR Mathematics/NCAA Clearinghouse approved course*

## **MUSIC**

### **N31 Music Theory 1**

Level: 9-12

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Music Theory I is a course that presents students with an opportunity to broaden their knowledge of the fundamental elements of music. Included in the study are rhythm, melodic line, harmonic structure, ear-training, and sight-singing.

*HEAR Academic Elective*

### **N32 Music Theory Two**

Level: 9-12

Course Length: 2 semesters

Prerequisites: Music Theory I

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Music Theory II is a course in music composition. Ear-training, sight-singing, and composition will be augmented with the study of four-part writing.

*HEAR Academic Elective*

### **N33 AP Music Theory**

Level: 9-12

Course Length: 2 semesters

Prerequisites: Music Theory I

Credits: 10

Graduation Requirement: Humanities/Fine Arts

AP Music Theory is a course in music composition. Ear-training, sight-singing, and composition will be augmented with the study of four-part writing. The College Board Advanced Placement course syllabus provides the curriculum guide for this course.

*HEAR Academic Elective*

### **N40 Performance Class**

Level: 9-12

Course Length: 1 year

Prerequisites: None

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Performance Class is a course designed to give students who are interested in some aspect of performance a place to experiment and perform. The atmosphere will be one of open form, emphasizing self-evaluation as well as a group critique. Student will perform in both solo and group capacity in a variety of artistic areas. Professionalism, stage presence, and overall effectiveness will be stressed as well as performance techniques, effective arranging, and ensemble techniques.

*HEAR Academic Elective*

## **N60 Concert Choir**

Level: 9-12

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Concert Choir elaborates on concepts and techniques explored in choir. A wide variety of vocal techniques will be presented and utilized. Culminating performances are a meaningful and mandatory component of this class.

*HEAR Academic Elective*

## **N62 Select Women's Choir**

### **N64 Select Mixed Choir**

Level: 9-12\*

\**Note: FHS offers this course for 10<sup>th</sup>-12<sup>th</sup> grades only.*

Course Length: 2 semesters

Prerequisites: Audition or Instructor's Consent

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Select Choir for men, women, or mixed voices is a more advanced ensemble focusing on more difficult choral works. Emphasis will be placed on developing more advanced musicianship and professionalism. A wide variety of advanced vocal and choral techniques will be explored in-depth. Culminating performances are a meaningful and mandatory component of this class.

*HEAR Academic Elective*

## **N67 Women's Show/Jazz Choir**

### **N68 Show/Jazz Choir**

Level: 9-12\*

\**Note: FHS offers this course for 10<sup>th</sup>-12<sup>th</sup> grades only.*

Course Length: 2 semesters

Prerequisites: Audition or Instructor's Consent

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Show Choir focuses on the performance of vocal music in the popular idiom. Emphasis will be placed on developing appropriate vocal techniques and stage presence to create an effective overall performance. Culminating performances are a meaningful and mandatory component of this class.

*HEAR Academic Elective*

## **N71 Band Level 1**

Level: 9-12

Course Length: 2 semesters

Prerequisite: at least 3 years of study of a band instrument or appropriate experience or permission of instructor

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Band Level 1 is a course that emphasizes the organization, preparation, and performance of a variety of band music. The yearlong course will explore both the marching and concert bands. Included in the course is the study of those basic musical and physical coordination skills for band performances. In addition, a variety of group and individual leadership programs are presented. Public performances after school hours are an integral part of the course and are required.

*HEAR Academic Elective*

## **N72 Band Level 2**

Level: 9-12

Course Length: 2 semesters

Prerequisite: at least 3 years of study of a band instrument or appropriate experience or permission of instructor

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Band Level 2 is a course that further explores the organization, preparation, and performance concepts of a contemporary band. The yearlong course will further explore both the marching and concert band idioms. Included is the study of more intricate music and both affective and physical coordination skills necessary for band performances. In addition, a variety of group and individual leadership positions will be available. Public performance after school hours is an integral part of the course and is required.

*HEAR Academic Elective*

## **N73 Band Level 3 (Color Guard)**

Level: 9-12

Course Length: 2 semesters

Prerequisite: at least 4 years of study of a band instrument or appropriate experience or permission of instructor

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Band Level 3 is a course that emphasizes the highest degree of band performance. Level 3 students assume many of the varied responsibilities of organizing the band and rehearsals. The yearlong course will further explore some of the most complex aspects of a performing band program. In addition, special opportunities are given for leadership training. Public performances after school hours are an integral part of the course and are required.

*HEAR Academic Elective*

### **N75 Jazz Band 1\***

*\*Note: Audition is required for FHS.*

Level: 9-12

Course Length: 2 semesters

Prerequisite: at least 3 years of study of a jazz band instrument and/or approval of instructor

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Jazz Band 1 is a course that offers student musicians experience in and opportunity to perform the musical forms of jazz, rock, and popular music with additional emphasis on advancing improvisational techniques. Public performances after school hours are an integral part of the course and are required.

*HEAR Academic Elective*

### **N76 Jazz Band 2\***

*\*Note: Audition is required for FHS.*

Level: 9-12

Course Length: 2 semesters

Prerequisite: at least 3 years of study of a jazz band instrument and/or approval of instructor

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Jazz Band 2 is a course that offers student musicians experience in and opportunity to perform the musical forms of jazz, rock, and popular music with additional emphasis on advancing improvisational techniques. Public performances after school hours are an integral part of the course and are required.

*HEAR Academic Elective*

### **N77 Jazz Band 3\***

*\*Note: Audition is required for FHS.*

Level: 9-12

Course Length: 2 semesters

Prerequisite: appropriate experience in playing a jazz band instrument and/or permission of instructor

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Jazz Band 3 is a course that offers student musicians experience in and opportunity to perform the musical forms of jazz music with additional emphasis on advancing improvisational techniques. Public performances after school hours are an integral part of the course and are required.

*HEAR Academic Elective*

### **N81 Orchestra Level 1**

Level: 9-12

Course Length: 2 semesters

Prerequisite: Previous study of a stringed orchestral instrument

Credits: 10

Graduation Requirement: Humanities/Fine Arts

Orchestra Level 1 offers technical and musical training and opportunities for development in group settings for orchestral musicians. Students become familiar with great works of music as well as developing technical and personal growth. Winds and percussion may be incorporated to provide for a full orchestral experience. Performances after school hours are an integral part of the course and are required.

*HEAR Academic Elective*

## **PHYSICAL EDUCATION**

### **P20 Comprehensive Physical Education**

Level: 9

Course Length: 1 semester

Prerequisite: None

Credits: 5

Graduation Requirement: Comprehensive Physical Education

This is a required course for all freshman students. This course provides basic orientation to the high school P.E. curriculum. Students in this course are given the opportunity to explore the variety of elective physical education courses available to them

during the remainder of their high school program. Emphasis is placed on skill development and fitness. The five fitness components of cardiovascular endurance, flexibility, muscular endurance, muscular strength, and body composition will be addressed.

## **P24 Weight Training I**

Level: 9-12

Course Length: 1 semester (*Note*: FHS offers this class 1<sup>st</sup> semester.)

Prerequisite: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education Elective

This course is designed to make students aware of various lifetime physical activities. Students will improve their fitness level through a variety of activities including weight training, aerobics, swimming, cardiovascular conditioning, and circuit training. Information will be given concerning diet, sports, and muscle groups. The five fitness components of cardiovascular endurance, flexibility, muscular strength, muscular endurance, and body composition will be addressed. This course may vary depending upon the interest of the students.

## **P25 Weight Training 2**

Level\*: 10-12

*Note*: FHS allows 9<sup>th</sup> grade with instructor's approval

Course Length: 1 semester (*Note*: FHS offers this class 2<sup>nd</sup> semester.)

Prerequisite: P24 Weight Training I

Credits: 5

Graduation Requirement: Physical Education Elective

This course is designed to go beyond the general levels and objectives of Weight Training 1. Specific work out programs (including cardiovascular workouts) will be developed to meet the needs of students toward sports participation and also toward competition in power-lift contests. All programs will include the principles of specificity and progression. Weight room etiquette and workout ethics will also be included in this course.

## **P29 Adaptive Physical Education**

Level: 9-12

Course Length: 1 semester

Prerequisite: Teacher selection

Credits: 5

Graduation Requirement: Physical Education Elective

This course is designed for the student with special sports needs. The programs are adaptive in nature and very individualized so that the students can work on their specific needs. Students will increase their skill level in their areas of interest, along with participation in various types of conditioning activities. This course also provides students with the opportunity to participate in modified activities in an environmental education class. This semester course may be repeated as desired or recommended. Approval of instructor is required.

## **P44 Aerobic Walking**

Level: 9-12

Course Length: 1 semester

Prerequisites: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education Elective

This course provides basic elements demonstrating how to maintain appropriate levels of cardiovascular and respiratory efficiency through a walking program.

## **P45 Aerobics**

Level: 9-12

Course Length: 1 semester

Prerequisite: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education Elective

This class focuses on aerobic exercise and utilizes many techniques to achieve the aerobic state. Choreography and dance routines are emphasized in this course. Yoga, Tae Bo, step, circuit, and a variety of dance styles are also introduced. Aerobic routines will be supplemented with proper stretching techniques, relaxation exercises, and general body fitness.

## **P47 Dance Techniques**

Level: 9-12

Course Length: 1 semester

Prerequisite: None

Credit: 5

Graduation Requirement: Physical Education Elective

This class will include basic jazz and creative dance with an emphasis on creative thinking through dance movement. Instruction will include warm-ups, locomotor and non-locomotor movements, simple dance combinations, improvisation and creative dance assignments.

### **P51 Golf**

Level: 9-12

Course Length: 1 semester

Prerequisite: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education Elective

Golf requires basic techniques and form to safely enjoy the activity. Students learn the techniques of the full swing, chip, and putt. Students also learn top score using different formats and figure their handicap. Students will have an opportunity to golf on a regulation course. Students do not golf everyday. Instructions in other recreational games are included in this course such as: horseshoes, walking, floor hockey, ultimate Frisbee, etc

### **P54 Racquet Sports**

Level: 9-12

Course Length: 1 semester

Prerequisite: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education Elective

The primary goal of this course is to assist students in developing fundamental skill in playing individual and dual activities such as tennis, badminton, table tennis, golf, bocce, and pickleball. Along with beginning skill development, rules, etiquette, and playing strategies will also be emphasized. Students will have the opportunity to apply and improve skills through match play and challenge ladders.

### **P70 Team Sports**

Level: 9-12

Course Length: 1 semester

Prerequisite: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education Elective

The primary goal of this course is to assist students in developing fundamental skills in various team sports. Students will also learn the history of the sport, rules, etiquette, scoring, strategies, and develop fitness needed for success. Sport areas may include: cricket, lacrosse, ultimate frisbee, handball, flag football, volleyball, baseball, softball, speedball, soccer, floor hockey, track and field, and team handball.

### **P81 Basketball 1**

Level: 9-12

Course Length: 1 semester

Prerequisite: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education elective

The primary goal of this course is to assist students in developing fundamental skills in basketball. Students will develop competence in dribbling, passing, stance, and footwork of defense, shooting, and rebounding. Students will also learn the history of the sport, rules, etiquette, scoring, strategies, and develop fitness needed for success in the sport.

### **P82 Basketball 2**

Level: 9-12

Course Length: 1 semester

Prerequisite: P20 Comprehensive Physical Education

Credits: 5

Graduation Requirement: Physical Education Elective

The basic objective of this course is to improve the fundamental skills of the game such as passing, receiving, pivoting, dribbling, shooting, cutting, and defense. A balance of individual skill time, team drills, and team competition is emphasized. Students will also develop fitness needed for success in the sport. This class is offered for the highly motivated basketball player.

### **P86 Volleyball 1**

Level: 9-12

Course Length: 1 semester

Prerequisite: P20 Comprehensive Physical Education

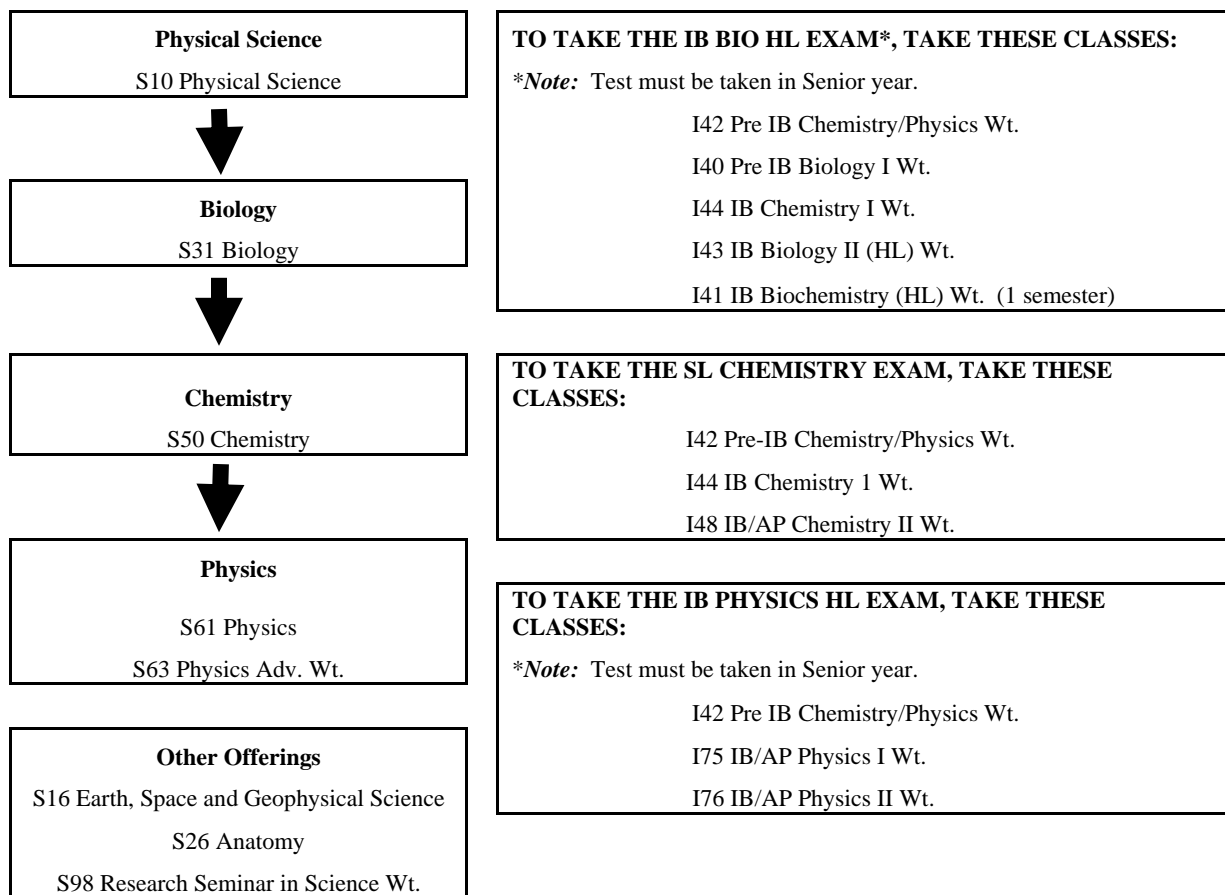
Credits: 5

Graduation Requirement: Physical Education Elective

The primary goal of this course is to assist students in developing fundamental skills in volleyball. Students will develop competence in the underhand serve, passing, stance and footwork of serve reception, setting, and hitting. Students will also learn the history of the sport, rules, etiquette, scoring, strategies, and develop fitness needed for success in the sport.

# SCIENCE

## SCIENCE SUGGESTED PATHWAYS



**Note:** Anatomy requires a \$25 lab fee. All other lab courses require a \$10 lab fee per semester.

### S10 Physical Science

Level: 9

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Physical Science

Physical Science is an inquiry-oriented course involving principles and concepts concerning the physical world. Content areas explored include nature and behavior of matter, atomic theory, chemical and physical changes including bonding and reactions, mechanics, electricity and magnetism, light and sound, and energy. The course emphasizes the study and proper use of fundamental science tools including the metric system, periodic table, graphing techniques and applied technologies. Laboratory activities reinforce concepts and principles presented.

*HEAR Natural Science/ NCAA Clearinghouse approved course*

### S31 Biology

Level: 10-12

Course Length: 2 semesters

Prerequisites: S10 Physical Science or I42 Pre IB Chem/Phys

Credit: 10

Graduation Requirement: Life Science

In this college preparatory class students will explore relationships between structure and function in organisms and the interaction of cells and organisms with each other and their environments. Units of study include: use of microscope, cell structure and function, biochemistry, microbiology, classification, human physiology, genetics, evolution, botany and ecology. Laboratory activities reinforce concepts and principles presented. Self-sufficiency and responsibility in work habits required.

*HEAR Natural Science/ NCAA Clearinghouse approved course*

## **S50 Chemistry**

Level: 10-12\*

*\*Note: FHS offers this course for 11-12<sup>th</sup> grade only.*

Course Length: 2 semesters

Prerequisites: Algebra 2 or current enrollment in Algebra 2

*Note:* FHS has an additional prerequisite of Physical Science

Credits: 10

Graduation Requirement: Physical Science

This course provides the opportunity to develop knowledge and understanding about the relationships between the structure and properties of matter and the interaction of mass and energy. Units of study include: matter and its changes, atomic structure, chemical composition, nomenclature, reactions, stoichiometry, gas laws, periodicity, bonding, molecular geometry, and thermochemistry. Laboratory activities reinforce concepts and principles presented in the course.

*HEAR Natural Science/NCAA Clearinghouse approved course*

## **S61 Physics**

Level: 11-12\*

*\*Note: FHS offers this course for 12<sup>th</sup> grade only.*

Course Length: 2 semesters

Prerequisites: Preferable two years of Algebra

Credits: 10

Graduation Requirement: Physical Science

This course helps students understand the basic physical laws of our world. The course includes: scientific methods and measurement, forces, motion, energy, light, waves, electricity, magnetism, and atomic physics. Laboratory work serves to promote understanding and to illustrate the experimental nature of physics.

*HEAR Natural Science/NCAA Clearinghouse approved course*

## **S63 Physics Advanced Wt.**

Level: 11-12\*

*\*Note: FHS offers this course for 12<sup>th</sup> grade only*

Course Length: 2 semesters

Prerequisites\*: Teacher Recommendation

*\*Note:* FHS has an additional prerequisite of Algebra 2

Credits: 10

Graduation Requirement: Physical Science

Physics Advanced will acquaint students with the basic physical laws of our world. The major areas of study are in measurement, light, waves, motion, forces, energy, electricity, magnetism, and atomic physics. Laboratory work serves to promote understanding and to illustrate the experimental nature of physics. A high degree of skill in algebra and geometry is necessary for success in this course.

*HEAR Natural Science/NCAA Clearinghouse approved course*

## **S16 Earth, Space and Geophysical Science**

Level: 10-12

Course Length: 2 Semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Elective

This course provides the opportunity to develop knowledge and understanding about the relationships between the structure, processes, and resources on Earth and other solar bodies. Emphasis is placed on laboratory and field experiences. Units of study include: the nature of science, environmental geology, environmental resources and pollution, and atmospheric studies. This course requires the student to learn independently as well as cooperatively. This course is designed to meet the state standards relating to the earth sciences as well as the district graduation requirements.

*HEAR Natural Science/NCAA Clearinghouse approved course*

## **S26 Anatomy**

Level: 11-12

Course Length: 1 semester

Prerequisites: S31 Biology

Credits: 5

Graduation Requirement: Life Science

Anatomy is a course that provides students the opportunity to explore the intricate and sophisticated relationship between structure and function in the human body. The course offers students an environment in which they may probe topics such as *Homeostasis, Anatomical and Physiological Disorders* and a survey of the remarkable array of Body Systems that comprise the

human body. Laboratory activities reinforce concepts and principles presented in the course. Emphasis in this course is on mammalian dissection.

*HEAR Natural Science/NCAA Clearinghouse approved course*

### **S98 Research Seminar in Science Wt.**

Level: 10-12\*

\**Note: FHS offers this course for 11-12<sup>th</sup> grade only*

Course Length: 2 semesters

Prerequisites: S10 Physical Science, S31 Biology and teacher recommendation

Credits: 10

Graduation Requirement: Elective

This highly structured year-long science research course offers highly motivated students of various achievement levels an opportunity to perform authentic science research of their own choosing. Students participate in the community of scientific research and scholarship as part of their high school experience. This program directly addresses student need to perform hands-on scientific research. It requires students to identify their own topic of research; read relevant and appropriate scientific literature; create testable hypotheses; design, analyze and discuss results. Each student will have the opportunity to enter their research into local, state and national competitions.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I42 Pre IB Chemistry Physics 1 Wt.**

Level: 9-10

Course Length: 2 semesters

Prerequisites: M35 Algebra 1 Honors

Co-requisite: I34 Pre IB Geometry/Honors Geometry

Credits: 10

Graduation Requirement: Physical Science

This class is an exploratory science course. Emphasis will be placed on observing relationships, identifying variables and developing explanations in qualitative and quantitative ways through experimentation and analysis. Students will be able to relate concepts of chemistry and physics to real world phenomena, while understanding their theoretical principles. This class will provide a foundation for students entering the IB program. Self sufficiency and responsibility in work habits require. This class is an excellent preparation for IB Chemistry 1.

*HEAR Natural Science /NCAA Clearinghouse approved course*

### **I40 Pre IB Biology 1 Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisite: Pre IB Chemistry/Physics or Physical Science; can be taken concurrently with Pre IB Chemistry/Physics

Co-requisite: Pre-IB Geometry Honors or higher

Credits: 10

Graduation Requirement: Life Science

Pre-IB Biology is a comprehensive survey of cells, biochemistry, genetics, evolution, physiology, and ecology. Students will gain conceptual and practical skills as a result of involvement in scientific activities. Students will develop the ability to evaluate biological knowledge with respect to problems which are facing mankind at present, and which have implication of serious consequences in the future. Laboratory experiences are a major portion of the course. Self-sufficiency and responsibility in work habits required.

*HEAR Natural Science/NCAA Clearinghouse approved course*

### **I44 IB Chemistry I Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisite: I42 Pre IB Chem/Phys; can be taken concurrently with Pre IB Biology I

Co-requisite: I36 Pre IB Algebra 2 Honors

Credits: 10

Graduation Requirement: Life Science

This course uses discovery learning as much as possible to promote well informed, inquisitive, scientific thinkers. Twenty-five percent of the time is spent in the laboratory to develop practical skills. Communicating scientific concepts, both orally and written will be practiced. This is an advanced chemistry class which thoroughly prepares a student for General Chemistry, usually taken during the first year of college.

*HEAR Natural Science /NCAA Clearinghouse approved course*

### **I48 IB Chemistry II Wt.**

Level: 11-12

Course Length: 2 semesters

Prerequisite: I44 IB Chemistry I Wt. or teacher recommendation.

Credits: 10

Graduation Requirement: Physical Science

After completion, students will be prepared to take the Standard Level Chemistry exam and the AP Chemistry exam.

*HEAR Natural Science /NCAA Clearinghouse approved course*

### **I75 IB/AP Physics I Wt.**

Level: 11-12

Course Length: 2 semesters

Prerequisite: I42 Pre IB Chem/Phys, I36 Pre IB Alg 2 Honors

Credits: 10

Graduation Requirement: Physical Science

This class will acquaint students with the basic physical laws of our world. The first semester covers Newtonian Mechanics and the second semester covers electricity and Magnetism, Optics and Introductory Atomic Physics. A high degree of skill in algebra and geometry is necessary for success in this course. **It is not recommended that students take the IB SL Exam in Physics after only one year of Physics.**

*HEAR Natural Science/NCAA Clearinghouse approved course*

### **I43 IB Biology II (HL) Wt.**

Level: 11-12

Course Length: 2 semesters

Prerequisites: Pre-IB Biology I

Co requisite: I44 IB Chemistry I Wt. or S50 Chemistry

Credits: 5

Graduation Requirement: Life Science

IB Biology II (HL) is an in-depth study of selected topics introduced in Pre-IB Biology I. An emphasis is put on cell structures, membranes, genetics, botany, evolution, human anatomy and physiology, and ecology and conservation. Laboratory activities reinforce concepts and are used to improve scientific writing skills. Students are also expected to design some labs. Completion of Pre-IB Biology I, IB Biology II (HL), and IB Biochemistry (HL) will prepare a student for the Standard or Higher Level IB Biology Exam

*HEAR Natural Science/NCAA Clearinghouse approved course*

### **I41 IB Biochemistry (HL) Wt.**

Level: 12\*

*\*Note: FHS offers this course for 11-12<sup>th</sup> grade.*

Course Length: 1 semester

Prerequisites: I40 Pre-IB Biology I, I44 IB Chemistry I Wt., or S50 Chemistry; can be taken concurrently with IB Biology II (HL)

Credits: 5

Graduation Requirement: Life Science

IB Biochemistry (HL) is an in-depth study of selected topics introduced in pre-IB Biology I. An emphasis is put on organic chemistry, enzymes, DNA and protein synthesis, genetic engineering, cellular respiration and photosynthesis. Students are expected to have a good chemistry background. Laboratory activities reinforce concepts and principles presented. Completion of Pre-IB Biology I, IB Biology II (HL), and IB Biochemistry (HL) will prepare a student for the Standard or Higher Level IB Biology Exam.

*HEAR Natural Science/NCAA Clearinghouse approved course*

### **I76 IB/AP Physics II Wt.**

Level: 12

Course Length: 2 semesters

Prerequisite: I75 IB Physics I, Calculus 1 (from various course offerings)

Credits: 10

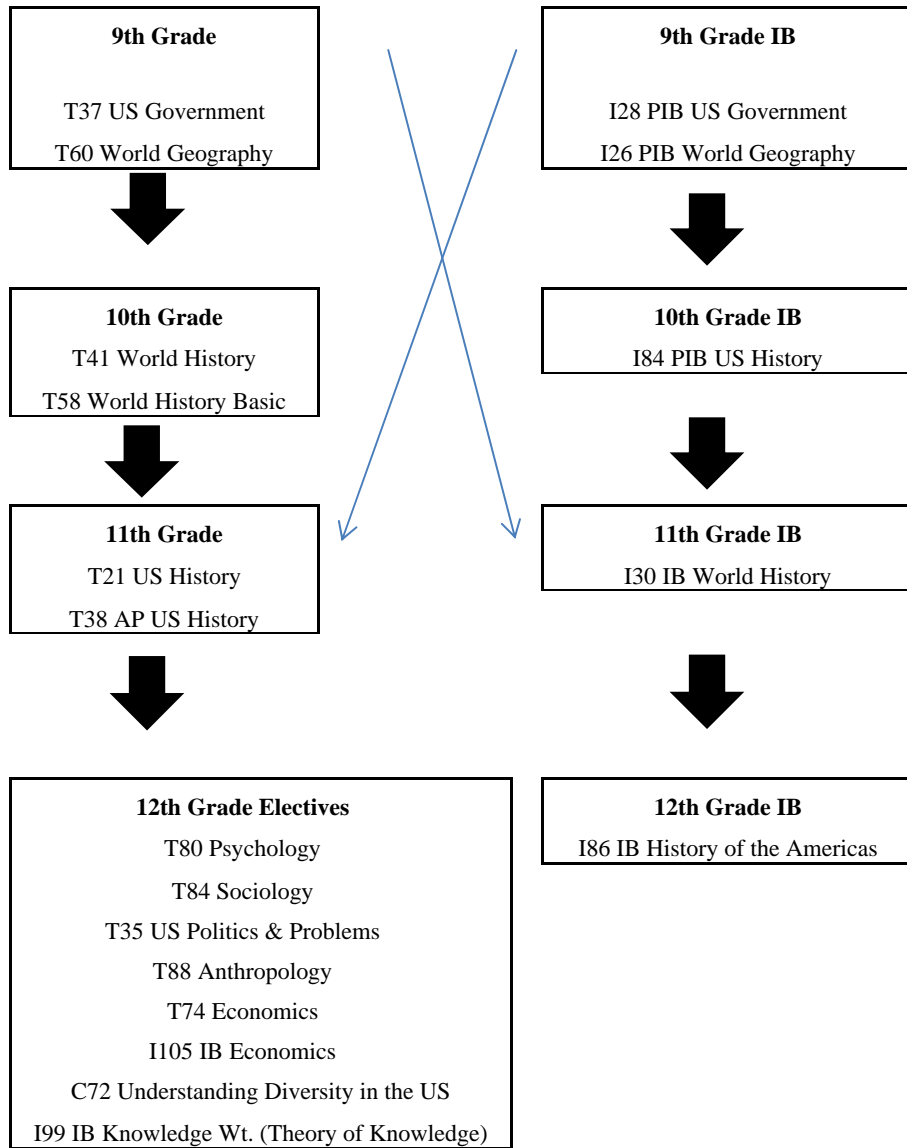
Graduation Requirement: Physical Science

This course is a continuation of IB Physics I, and uses Calculus. The following topics are covered: Newtonian Mechanic Review and Extension Fluid Mechanics, Thermal Physics and Thermodynamics, Astronomy and Astrophysics, Electricity Review and Extension, Magnetism Review and Extension, Nuclear Physics, Relativity Review and Extension. The course includes extensive lab work and the use of computer technology. By mid-May students will be prepared for the IB SL or HL Exam.

*HEAR Natural Science/NCAA Clearinghouse approved course*

# SOCIAL STUDIES

## Social Studies Pathways



Indicates possible sequence with teacher approval.

### T37 United States Government

Level: 9

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Social Studies/American Government

This course presents the basic concepts of American government from pre-revolutionary days to the present time. The functions of national, state, and local governments and their relationships to the citizens of the United States are covered. Various governmental problems at all levels of government are presented. The responsibilities and obligations of both the citizen and the government to each other are an integral part of this course. A comparison of other important political systems

*HEAR Social Science/NCAA Clearinghouse approved course*

## **T60 World Geography**

Level: 9

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Social Studies/World Geography

World Geography provides the skills and tools of spatial analysis to better understand the patterns of people, landscape and natural phenomena of the Earth. Geography as a spatial perspective has much more to do with asking inquiry questions and solving problems than it does with rote memorization of isolated facts. The topics of study reflect the five themes of geography and the geography content standards. The topics include local and world regions, climates, ecosystems, population issues, resources, international trade, environmental issues, natural hazards, geographic tools and technology.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **I28 Pre IB Government Wt.**

Level: 9

Course Length: 1 semester

Prerequisite: None

Credits: 5

Graduation Requirement: American Government

The purpose of this course is to present the basic concepts of American government from pre-Revolutionary days to the present time. This course will begin with a brief overview of why government is important to societies. Students will then pursue a study of the foundations of American democracy, the rights of all citizens, the politics of democracy and the structure of American governments. As these basic concepts are understood, a comparison of other political systems and philosophies will be investigated. This course focuses on writing and critical thinking skills.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **I26 Pre IB Geography Wt.**

Level: 9

Course Length: 1 semester

Prerequisite: None

Credits: 5

Graduation Requirement: World Geography

This course provides students the skills and tools of spatial analysis to better understand patterns of people, landscapes, and natural phenomena of the earth. Topics of study: local and world regions, climates, ecosystems, population issues, cities, international trade, environmental issues, natural hazards, and geographic technology. The course is specifically designed to prepare students for the full IB program and has a heavy written and analytical component.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **T41 World History**

Level: 10

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Social Studies/World History

World History is chronological, thematic, and comparative study of the major cultures of all regions of the world through the collapse of the Soviet Union. Chronology is important, but teachers may change the order of the units. Historical research skills are an important, required component of the course. At least one major, comprehensive research project will be completed each year. Primary source materials (readings, art, artifacts, etc) are an integral component of each unit.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **I84 Pre IB US History Wt.**

Level: 10

Course Length: 2 semesters

Prerequisite: I28 PIB Government and I26 PIB Geography or teacher recommendation

Credits: 10

Graduation Requirement: Social Studies/US History

Students who enroll in this class must be independent learners capable of using an advanced text, and their academic skills should be above grade level. This is a fast-paced chronological course focusing on political, social, economic, and geographical concepts of US History. The intent of this class is to prepare sophomores for the academic and intellectual rigors of junior level IB World History, for which this class is a prerequisite. The intent of the course is to focus on IB style writing and analysis, featuring an IB style internal assessment.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **T21 United States History**

Level: 11

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Social Studies/U.S History

This is a chronological course focusing on political, economic, social and cultural concepts of United States history. During the first semester students will study pre-colonial times to 1900. During the second semester students will study the U. S. during the twentieth century.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **T38 Advanced Placement United States History Wt.**

Level: 11

Course Length: 2 semesters

Prerequisites: Departmental recommendation

Credits: 10

Graduation Requirement: Social Studies/U.S History

Advanced Placement U. S. History is an intensive study of history designed for the student wishing a more rigorous course.

College level reading, critical analysis, discussion, problem solving debates, and essays are integral components of the course.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **I30 IB World History Wt.**

Level: 11

Course Length: 2 semesters

Prerequisite: None

Credits: 10

Graduation Requirement: Social Studies/World History

This class is a fast paced, intensive exploration of European and world civilization, 1500 AD to present. First semester topics include the impact of geography upon history, historiography and the skills of historical inquiry, the Age of Absolutism, the Enlightenment, the French Revolution, imperialism, and the First World War. In the second semester, students will engage in in-depth studies of the rise and rule of single-party states, the Second World War, the Cold War, and the challenges facing the post Cold War world, with a special focus on IB prescribed topics. The class will prepare students to take the IB Standard Level exam at the end of junior or the higher level exams as a senior.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **I86 IB History of the Americas Wt.**

Level: 12

Course Length: 2 semesters

Prerequisite: I84 IB US History or I30 IB World History

Credits: 10

Graduation Requirement: Social Studies Elective

Students will examine the historical development and role in the modern world of Canada, the Caribbean, Central America, South America and the United States. As a regional study, this course will provide students with a dual perspective: a chronological study, in depth, of one region of the world and broad, comparative analysis of selected nations and historical themes. This course will prepare students for a higher level International Baccalaureate examination.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **ELECTIVES:**

### **T80 Psychology**

Level: 11-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Social Studies Elective

Psychology is designed to provide students with a fundamental understanding of the science of human behavior. This class will present students with a basic view of the field of study and will cover theories of personality, mental, emotional and physical development as they relate to the understanding of behavior.

*HEAR Social Science/NCAA Clearinghouse approved course*

### **T35 United States Politics and Problems**

Level: 11-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Social Studies/American Government

This course explores the history, practice, and problems of politics. Students study political philosophies and comparative systems, ethics, campaign tactics, influence to the media, and international diplomacy. Through discussion and activities, students examine national and local policies. Fulfills U.S. Government requirement.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **T74 Economics**

Level: 11-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Social Studies Elective

Current economic issues will serve as a foundation for the application of economic theory in this semester course. Analysis of the American economic system as it relates to the individual and other economic systems will be a focus. Specific units will cover microeconomic concepts such as the law of supply and demand, factors of production, and the business cycle. Macroeconomic topics will include money and banking, monetary and fiscal policy, international trade and the impact of globalization.

Comparative economic systems and the history of economic thought will also be covered.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **T84 Sociology**

Level: 11-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Social Studies Elective

This course examines the science of understanding society and group behavior. Emphases will be on society's culture, institutions, and organizations. Students will examine values and norms, socialization, social change, social problems, and contemporary issues.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **T88 Anthropology**

Level: 11-12

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Social Studies Elective

Anthropology presents students with an introduction to the four main disciplines of studying human origins and development: physical anthropology, linguistic anthropology, archeology, and ethnography. The course will emphasize cultural anthropology. Topics of study include traditional societies (their religion, art, music, family and kinship systems), the development of early civilizations, and the dynamics of social change. Students are recommended to have strong backgrounds in the sciences and social studies before attempting this course.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **I105 IB Economics SL**

Level: 11-12

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Social Studies Elective

This year-long IB course will give students the opportunity to apply economic theories to real-world situations. A strong theoretical foundation in macroeconomics, microeconomics, international economics and development economics will provide a springboard for exploring current issues. This class will encourage interdisciplinary thinking, as it incorporates elements of history, geography, psychology, sociology political science and other related fields of study.

*HEAR Social Science/NCAA Clearinghouse approved course*

## **C72 Understanding Diversity in the United States**

Level: 9-12\*

*\*Note: FHS offers this course for 10<sup>th</sup>-12<sup>th</sup> grade only.*

Course Length: 1 semester

Prerequisites: None

Credits: 5

Graduation Requirement: Humanities 2008-09, Social Studies 2010 and beyond

Understanding Diversity in the United States presents students with the opportunity to carefully explore the concepts of race, ethnicity, gender, socio-economic status, culture, oppression, privilege, community and leadership. The course will be highly interactive and experiential. Students will meet with a variety of members from many communities of color and other cultural groups, analyze literary works, art and the media, and share their learning's through classroom presentations, discussions and written reports.

*HEAR Academic Elective/ NCAA Clearinghouse approved course*

## **I99 IB Knowledge Wt. (Theory of Knowledge)**

Level: 11-12 (spring Junior Year, fall Senior Year)

Course Length: 2 semesters

Prerequisites: Either full participation in the IB program or Teacher recommendation

Credits: 10

Graduation Requirement: Social Studies Elective

How do we know what we know, and can we prove it? These questions are the domain of Theory of Knowledge, the required core class for all IB Diploma candidates. Part philosophy, and part cultural anthropology, the class will examine issues of knowledge and knowledge claims in all of the subject areas of the IB Diploma Program. Through journals, presentations, and papers, students will come to a critical understanding of the claims of knowledge in the world around us. The class will also serve as a forum for monitoring progress in CAS requirements and completion of the Extended Essay.

*HEAR Social Science*

## **SPECIAL EDUCATION**

Students who have Individualized Education Plans (IEP) will register for courses with the assistance of their special education case manager so that their educational program is consistent with the goals and objectives of their IEP. This program may consist of regular education courses with some instructional accommodations, courses provided in the regular education class with a modified curriculum, and/or courses provided by the special education teacher. Please work with your special education case manager to complete your course registration form.

**ZLL STUDY HALL** (All students with IEPs are recommended to register for this course.)

LEVEL: 9-12

OFFERED: By semester, 5-30 credits

PREREQUISITE: Approval of current Case Manager. Students are in this course as a result of their Individual Education Plan (IEP).

## **STUDENT SUPPORT**

### **X22 Office Assistant**

Level: 10-12

Course Length: 1 semester

Prerequisites: Placement by permission of appropriate office staff or teacher

Credit: 5

Graduation Requirement: Elective

Office Assistant provides students with instruction in the routines and responsibilities of a school office. Students in this program work with the department head, school counselor or secretary during a scheduled period of the school day. Students assist the school staff by performing a variety of supportive tasks including clerical (non-confidential) duties.

Students may be scheduled to assist in the media center, the counseling office, the attendance office, the main office, or with individual teachers. Students who are interviewed and selected will serve as valuable resources for teachers and office personnel. Students are expected to be dependable and industrious. The ability to relate well with other students, adults, and visitors is very important.

### **X61 Student Council**

Level: 9-12

Course Length: 1 semester

Prerequisites: Elections or appointment

Credit: 5

Graduation Requirement: Elective

Student Council provides students elected to student council with an organized period to carry out the functions of student governance.

The purpose of this class is to teach, then develop, and then refine, leadership skills. Skills taught will include project planning effective delegation, task identification analysis and scheduling, effective communication, the roll of interpersonal relationships in leadership, parliamentary procedure, constructive argumentation, and budgeting. Students will learn through both at-your-seat instruction and application to projects such as Homecoming, school and community service projects.

### **X19 Advisory Program (Student Achievement Center w/Counselor Approval)**

Level: 9-12

Course Length: 1 semester

Prerequisites: None, Placement by counselor approval

Credits: 5

Students requiring tutoring or special assistance on a regular basis can be enrolled to attend the Student Achievement Center for one period if recommended by their counselor.

# TEEN PARENT PROGRAM

## **H52 Life Management 1**

Level: 9-12

Course Length: 1 semester

Prerequisites: Enrollment in Teen Parent Program

Credits: 5

Graduation Requirement: Practical Experience

All teen parents are expected to enroll in a Teen Parent Program or Family & Consumer Science course each semester to maintain their eligibility status in the Teen Parent Program, while working toward a program completion goal. This semester covers topics including self-understanding, health, food and nutrition, parenting and child development with an emphasis on infant and toddler health and safety.

## **H53 Life Management 2**

Level: 9-12

Course Length: 1 semester

Prerequisites: Completion of H52 Life Management 1 or instructor approval

Credits: 5

Graduation Requirement: Practical Experience

All teen parents are expected to enroll in a Teen Parent Program or Family & Consumer Science course each semester to maintain their eligibility status in the Teen Parent Program while working toward a program completion goal. This course provides practical skills for teen parents to become self-sufficient, economically independent, and employable in today's changing world, while also managing self and family responsibilities. Topics include: relationships, housing, personal finance, parenting, communications, health, food and nutrition.

## **V67 Career Prep 1**

Level: 9-12

Course Length: 1 semester

Prerequisite: Enrolled in Teen Parent Program

Credit: 5

Graduation Requirement: Practical Experience

For students enrolled in Teen Parent Program, This semester course includes a planned sequence of paid or unpaid work related experiences related to development of employability and entry level job skills. May be taken more than once.

## **V77 Career Prep 4**

Level: 9-12

Course Length: 1 semester

Prerequisite: Enrolled in Teen Parent Program

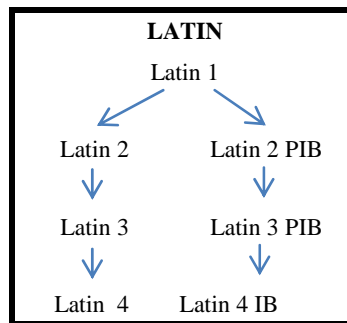
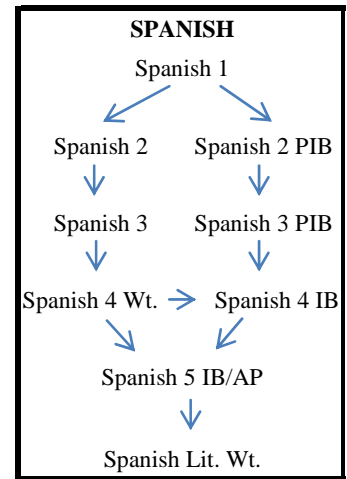
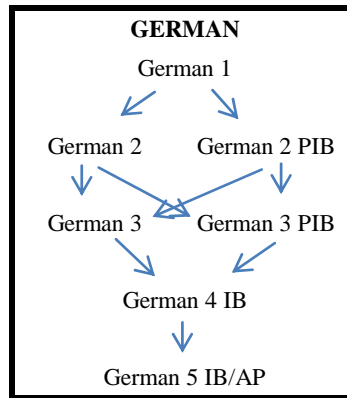
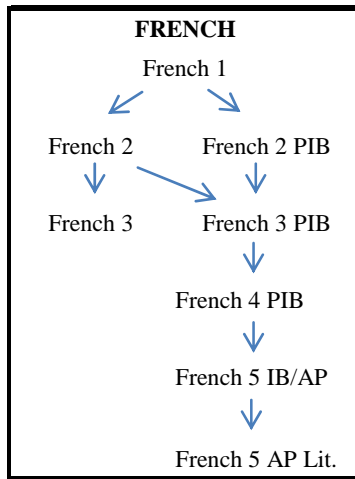
Credit: variable

Graduation Requirement: Practical Experience

For students enrolled in Teen Parent Program, This semester course includes a planned sequence of work and community based experiences leading to the acquisition of entry level job specific skills. May be taken more than once.

# WORLD LANGUAGE

## World Language Suggested Pathways



→ Indicates possible sequence with departmental approval.

### F49 Integrated Latin I & II

Level: 9-12

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirements: Humanities 2008-09; Second Language Acquisition 2010 and beyond

The purpose of this course is to teach students the basic features of the Latin language and to help them understand the profound impact of Latin roots on the English language. Four Semesters completes the two year high school graduation requirement in World Language.

### Level 1: F11 French 1, F31 German 1, F51 Latin 1, F71 Spanish 1, F101 Chinese I

Level: 9-12

Course Length: 2 semesters

Prerequisites: None

Credits: 10

Graduation Requirement: Elective 2008-09

Level 1 introduces students to the specific foreign culture and to the four basic language skills: listening comprehension, speaking, reading and writing. Students acquire skills through oral repetition, dialogues, short compositions, dictations, reading, and written exercises.

*HEAR World Language/NCAA Clearinghouse approved course*

### Level 2: F12 French 2, F32 German 2, F52, Latin 2, F72 Spanish 2

Level: 9-12

Course Length: 2 semesters

Prerequisites: Level 1

Credits: 10

Graduation Requirement: Elective 2008-09, Second Language Acquisition 2010 and beyond

Level 2 furthers the study of grammar, vocabulary and an understanding of the foreign cultures through movies, videos and magazines. Students improve listening, speaking skills through reading and writing skills. Students begin to develop reading comprehension skills through short stories, plays and poetry.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I49 Pre IB French 2 Wt., I52 Pre IB German 2 Wt., I45 Pre IB Spanish 2 Wt.**

Level: 9

Course Length: 2 semesters

Prerequisites: Level 1 or Recommendation of Teacher

Credits: 10

Graduation Requirement: Elective, Second Language Acquisition 2010 and beyond

Students will build a sound foundation in their language through structured practice in listening, speaking, reading, and writing activities. The course emphasizes daily participation and regular demonstration of both oral and written proficiency. In addition to expanding on core material presented in Level I, students will master the appropriate verbs, grammar structures, idioms, vocabulary, and cultural information necessary to carry out the general communicative functions.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I61 Pre IB Latin 2 Wt.**

Level: 9-10

Course Length: 2 semesters

Prerequisite: Latin 1 with an A or B, or Recommendation of teacher

Credits: 10

Graduation Requirement: Elective Second Language Acquisition 2010 and beyond

Students complete all Latin grammar and make significant progress in reading. Readings include stories about famous heroes and heroines from both myth and history. Students will read selections from Julius Caesar's Commentarii De Bello Gallico by the end of the year. Cultural emphasis is on the Late Republic/Early Empire. Expanded study of vocabulary and extensive reading practice comprise this class. Latin composition, the study of Roman culture, and Latin roots continue.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I102 Pre IB Chinese 2 Wt.**

Level: 9-12

Course Length: 2 semesters

Prerequisites: Chinese 1 or instructor's permission

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

Provides continued instruction to students about Chinese-speaking cultures and the four basic language skills: listening, speaking, reading, and writing. The course emphasizes daily participation and regular demonstration of both oral and written proficiency in Mandarin.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **Level 3: F13 French 3, F33 German 3, F53 Latin 3, F73 Spanish 3**

Level: 9-12

Course Length: 2 semesters

Prerequisites: Level 2

Credits: 10

Graduation Requirement: Humanities 2008-09, Second Language Acquisition 2010 and beyond

Level 3 reviews basic grammatical structures and continues the study of grammar, vocabulary, and culture. Students further develop skills in understanding reading, speaking, and writing through short stories, poetry, articles, oral presentations, and written exercises when applicable. Students will read one unabridged work.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I50 Pre IB French 3 Wt., I53 Pre IB German 3 Wt., I46 Pre IB Spanish 3 Wt.**

Level: 9-12

Course Length: 2 semesters

Prerequisites: Pre-IB Level 2

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This course will round out the basic knowledge presented in Levels 1 and 2 by giving special attention to advanced conversation and composition. More complex points of grammar will be presented with their application in daily communication. Further structured practice in the four skills and enhanced cultural awareness will enable students to perform communicative functions.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I62 Pre IB Latin 3 Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisite: Pre-IB Latin 2

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

Students read selections from the works of Caesar, Cicero, Ovid, and Vergil. Students look closely at literature. They are introduced to author's style and use of literary devices. Students are expected to participate in declamation and must regularly use both a dictionary and commentary. Readings are expansive.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **Level 4: F39 German 4, F50 Latin 4, F79 Spanish 4 Wt.\***

*\*Note: French students take either IB or AP courses for level 4.*

Level: 10-12

Course Length: 2 semesters

Prerequisites: Level 3

Credits: 10

Graduation Requirement: Humanities 2008-09, Second Language Acquisition 2010 and beyond

Level 4 is taught exclusively in the specific World Language. It explores topics in advanced composition and conversation, with an emphasis on refining and integrating advanced grammar into daily communication. Emphasis will be placed on comprehension as it is spoken by native speakers. Students will develop appropriate verbs, structures, vocabulary, idioms and cultural understanding necessary to perform communicative functions at the advanced level.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I51 IB French 4 Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisite: Pre IB French 3

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This course, taught exclusively in French, explores advanced topics in advanced composition and conversation, with an emphasis on refining and integrating advanced grammar into daily communication. Students will develop an appreciation of prose and poetry. Emphasis will be placed on comprehension of French as spoken by educated native speakers. Students will develop appropriate verbs, structures, vocabulary, idioms, and cultural understanding necessary to perform basic communicative functions at an advanced level.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I67 IB German 4 Wt.**

Level: 11

Course Length: 2 semesters

Prerequisite: Pre IB German

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This course, taught exclusively in German, explores more advanced topics in advanced composition and conversation, with an emphasis on refining and integrating advanced grammar into daily communication. Students will develop an appreciation of prose and poetry. Emphasis will be placed on comprehension of German as spoken by educated native speakers. Students will develop appropriate verbs, structures, vocabulary, idioms, and cultural understanding necessary to perform basic communicative functions at an advanced level.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I63 IB Latin 4 Wt.**

Level: 11

Course Length: 2 semesters

Prerequisite: Pre IB Latin 3

Credits 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This is an advanced literature course and is designed for students who plan to take the Latin IB/SL or AP exams. Students who choose this class enjoy poetry and are eager to learn more about style, meter, and literary devices. The curriculum includes readings from Catullus and Horace. Preparation for the AP Latin test is also available to students.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

### **I47 IB Spanish 4 Wt.**

Level: 10-12

Course Length: 2 semesters

Prerequisite: Pre IB Spanish 3

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This course, taught exclusively in Spanish, explores advanced topics in composition and conversation, with an emphasis on refining and integrating advanced grammar into daily communication. Social and cultural topics will be explored through the study of literature.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **Level 5 Advanced Placement: F26 French, F46 German, F85 Spanish Wt.**

Level: 11-12

Course Length: 2 semesters

Prerequisites: Level 4

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

Level 5 teaches mastery in reading, writing, and speaking the language. Students read short stories, plays and novels. They may participate in extracurricular activities using the foreign language. The Advanced Placement Language Exam is optional, but students who perform well on the test earn college credit for a one-year college-level course.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **I71 IB French 5 Wt.**

Level: 12

Course Length: 2 semesters

Prerequisite: IB French 4

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This course is a continuation of IB French 4 designed for students who plan to take the IB French Language exam and the AP French exam. This course, taught exclusively in French explores advanced topics in composition, grammar, and in-depth analysis of challenging literary works and readings from contemporary sources such as magazines, newspapers and articles. Students will be expected to understand a variety of listening materials taken from French television and radio programs. Students will develop a portfolio of readings and reports, both oral and written, to develop understanding of a particular aspect of French culture. A major outside project will be required for each semester. Oral proficiency will be evaluated throughout the year as part of the international assessment for the IB Language B SL (standard level) and HL (higher level) French exam and the AP French exam.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **I72 IB German 5 Wt.**

Level: 11 and 12

Course Length: 2 semesters

Prerequisite: IB German 4

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This course is taught in German and addresses the requirements of the IB program by using the thematic approach to the curriculum. The readings will support the themes to be addressed on a yearly basis. Some of the readings will be classical literature and others will consist of modern writings, magazine articles, and more current information and issues. Grammar is expected to be used correctly. Oral proficiency will be monitored carefully and increased by continued participation.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **I73 IB Spanish 5 Wt.**

Level: 11 and 12

Course Length: 2 semesters

Prerequisites: IB Spanish 4

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

This course is a rigorous continuation of IB Spanish 4 and is designed for the student who plans to take the IB standard level or higher level and/or the AP Spanish test. The focus of this program is language acquisition and development through the study of literary texts and other readings. Oral and written proficiency will be evaluated frequently.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **F27 Advanced Placement French Literature\***

*\*Note: Check with instructor regarding availability of this class.*

Level: 10-12

Course Length: 2 semesters

Prerequisites\*: Level 4

*Note:* FHS prerequisites are F26 AP French 5 or I71 IB French 5

Credits: 10

Graduation Requirement: Humanities 2008-09 Elective 2010 and beyond

AP French Literature is an introduction to representative works of French prose, poetry, and drama from different literary periods. The course includes the study of three novels and three plays and of various poems from the sixteenth through the twentieth centuries. The reading list is compiled by the College Board and changes every other year. Students will learn to do textual analysis and to write essays. All discussion and writing will be done in French.

*HEAR Academic Elective/NCAA Clearinghouse approved course*

## **F87 Advanced Placement Spanish Literature Wt.\***

*\*Note: Check with instructor regarding availability of this class.*

Level: 11-12

Course Length: 2 semesters

Prerequisites: Spanish 4 or 5 AP and teacher recommendation

Credits: 10

Graduation Requirement: Humanities 2008-09 Second Language Acquisition 2010 and beyond

Spanish Literature is a panoramic survey of Spanish and Latin American Literature, encompassing works from the thirteenth to the twenty-first centuries. Unabridged literacy works studied include poems, essays, plays, short stories and novels. The class is conducted exclusively in Spanish. At the end of the year all students may take and earn college credit if they perform well on the AP Spanish Literature Exam (optional).

*HEAR Academic Elective/ NCAA Clearinghouse approved course*

## **BOULDER TECHNICAL EDUCATIONAL CENTER (TEC)**

6600 Arapahoe Road, Boulder, CO 80303 Phone 303-447-5220 Fax 303-447-5258

<http://www.bvsd.org/schools/bouldertec/default.aspx>

Boulder Technical Education Center (TEC) programs are available to all BVSD high school students as elective credits in career and technical educational areas. In small classes, students follow a sequence of courses that provide hands-on technical skills and academic knowledge needed to prepare for an immediate career and/or further education. Students also use the Career Pathways Center to learn career search techniques to explore career pathways and post-secondary options.

Certifications in TEC programs may be earned after course completions ranging from one semester to two years. TEC students with transcribed certifications are eligible to receive articulated credit at Front Range Community College and/or escrow TEC credit with the Advanced Credit Pathway Program within the Colorado Community Colleges System.

Interested students should discuss TEC programs with parents and a home school counselor and/or case manager, complete a TEC enrollment form, meet with the TEC representative, and shadow programs of interest. Students must be a minimum of 15 years old and being 16 years old is required for some programs. Students can enroll in either a morning or afternoon 165 minute block at TEC, while concurrently enrolled in a home high school. A meeting between students and a TEC counselor can be requested through the Fairview Counseling Office. The following is a list of programs and their courses offered at TEC. For complete course descriptions, please pick up a TEC brochure at the Fairview Counseling Office.

**AUTOMOTIVE COLLISION REPAIR PROGRAM:** This is a one semester, one and/or two-year certificate program in which students learn state-of-the-art auto body repair technologies such as detailing, damage repair, paint refinishing, shop management skills and customer service.

V01 Collision Repair 1

V02 Collision Repair 2

V03 Automotive Detailing

V66 CTE Internship

**AUTOMOTIVE TECHNOLOGY PROGRAM:** This is a one semester, one and/or two-year certificate program in which students learn state-of-the-art technologies and practices related to testing, diagnosing and repairing of automotive equipment. Year one of the program includes a combination of V04, V86 & V87. Year two includes V93 thru V96, and sequential or concurrent enrollment is required for various certification pathways. Internship (V88) is available to eligible students.

V04 Motor Sports Repair and Maintenance

V66 CTE Internship

V86 Tire & Wheel

V87 Lube Technician

V88 Automotive Internship

V93 Automotive Heating & Air

V94 Automotive Engine Repair

V95 Automotive Electrical: Basic

V96 Automotive Electrical: Advanced

**BANKING/ACCOUNTING PROGRAM:** This is a one semester, one and/or two-year certificate program including theory/practices of monetary systems, accounting practices, teller skills, and financial products and services.

V51 Banking and Service Accounting 1

V52 Banking and Service Accounting 2

V53 Applications in Banking and Service Accounting

V66 CTE Internship

### **CAREER EXPERIENCE PROGRAM**

V90 Community Based Career Experience

**COMPUTER INFORMATION SYSTEMS:** The Boulder TEC CIS Department offers one-semester, one and/or two year certifications in Computer Information Systems, Game Design, Computer Forensics and Computer Hardware and Professional Billing.

V56 Computer Forensics  
V61 Computer Information Systems 1  
V62 Computer Hardware Essentials  
V63 Game Design and Software Production  
V65 Software Applications for Professional Billing Services  
V66 CTE Internship

**CONSTRUCTION TRADES PROGRAM:** This is a one and/or two-year certificate program that prepares students for entry or higher-level jobs in construction and related trades. Students work in a lab setting and learn basics of the construction trade with an emphasis on safety, leadership and team work.

V31 Construction Trades 1  
V32 Construction Trades 2  
V66 CTE Internship

**COSMETOLOGY PROGRAM:** Certificates offered in Hairstyling, Nail Technology and/or Esthetician coursework. Students learn theory and practice in hair cuts, tinting, perms, setting and styling, nail technology and skin care.

V79 Nail Technician  
V81 Esthetician  
V82 Hair Styling 1  
V83 Hair Styling 2  
V66 CTE Internship

**GENERAL AGRICULTURE PROGRAM:** This is a one and/or two-year certificate program in which students explore areas of general agriculture and learn the basics of landscape development, maintenance, management, plant and soil care, and nursery and greenhouse management. Semester courses are also offered in the areas of pet grooming and veterinary assistant for students who choose an animal science focus within this program.

V07 Landscape Management 1  
V08 Landscape Management 2  
V09 Greenhouse Management 1  
V10 Greenhouse Management 2  
V66 CTE Internship  
V72 Veterinary Assistant  
V73 Pet Grooming

**GRAPHICS COMMUNICATIONS PROGRAM:** This is a one-semester, one and/or two-year certificate program where students learn state-of-the-art technologies and practices related to graphic arts and printing.

V44 Applications in Graphic Communications  
V45 Graphic Communications 1  
V46 Graphic Communications 2  
V66 CTE Internship

**HEALTH OCCUPATIONS PROGRAM:** Offers a one semester certificate program in Certified Nursing Assistant, Veterinary Assistant or Pet Grooming. Students learn the basics of assisting in the health care field through classroom instruction and practice and work in clinical setting.

V70 Nursing Assistant  
V74 Clinical Internship

**MULTIMEDIA TECHNOLOGY PROGRAM:** This is a one and/or two-year certificate program incorporating state-of-the-art software and hardware used to produce multimedia products that may include animation, video, music, 3D, and other effects. Products include concept presentations, artwork, photography, video clips, portfolios, stationery, posters, flyers, and other marketing and advertising tools.

V37 Multimedia 1  
V38 Multimedia 2  
V55 3D Animation with Game Design  
V66 CTE Internship