

ELECTIVE COURSE DESCRIPTIONS 10-11

Math Applications

Course Length: ___ Semester __X__ Year

Pre-requisite: Algebra I

Description:

This course reinforces general math skills for students who have previously attained them, may extend the general math skills to cover additional math concepts, and use these skills in a wide variety of practical, consumer, business and occupational applications. This class is intended primarily for juniors and seniors; as freshmen and sophomores should consider the more linear mathematics path (Alg 1, Geometry, Alg 2)

Grade Levels: 9*, 10*, 11, 12

Fees: None

Co-requisite: None

Geometry

Course Length: ___ Semester __X__ Year

Pre-requisite: Algebra I

Description:

Course emphasizing an abstract, formal approach to the study of geometry, including topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems and formal proofs; rules of congruence, similarity, parallelism, and perpendicularity; and rules of angle measurement in triangles, including trigonometry, coordinate geometry, and transformational geometry.

Grade Levels: 9, 10, 11, 12

Fees: None

Co-requisite: None

Algebra II

Course Length: ___ Semester __X__ Year

Pre-requisite: Algebra I

Description:

Course topics include field properties and theorems; set theory; operations with rational and irrational expression; factoring of rational expression; in- depth study of linear equations and inequities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

Grade Levels: 9, 10, 11, 12

Fees: None

Co-requisite: None

Trigonometry

Course Length: __X__ Semester _____ Year

Pre-requisite: Geometry

Description:

Course prepares students for eventual work in calculus and includes the study of the following topics; trigonometric and circular Functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers.

Grade Levels: 11, 12

Fees: None

Co-requisite: None

Pre – Calculus

Course Length: __X__ Semester _____ Year

Pre-requisite: Trigonometry

Description:

Topics include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs;

Grade Level: 11, 12

Fees: None

Co-requisite: None

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Advanced Ag. Welding and Fabrication

Course Length: ___ Semester X Year

Pre-requisite: Ag. Welding and Fabrication

Grade Level: 11, 12

Fees: \$15.00

Co-requisite: None

Description:

This class is a lab class in which units of instruction are taught followed by the time for project work by the student. The units of instruction include: ship safety, tool conditioning and repair, oxy-acetylene cutting and welding, arc welding and MIG and TIG welding, project planning and budgeting for projects.

Small Gasoline Engines (1st semester of Ag. Power Tech) **Grade Level: 10, 11, 12**

Course Length: X Semester ___ Year

Pre-requisite: None

Fees: \$15.00

Co-requisite: None

Description:

This is a shop class that includes the over-haul procedures of a small engine. Units of instruction include: theories and principles of operation, how to use a micrometer and check for worn out parts. The class also includes maintenance and troubleshooting engines.

Agricultural Power Tech (2nd semester of Small Gas Engines) **Grade Level: 10, 11, 12**

Course Length: X Semester ___ Year

Pre-requisite: None

Fees: \$15.00

Co-requisite: None

Description:

This is a shop class that includes the over-haul procedures of a large engines. Units of instruction include: theories and principles of operation, how to use a micrometer and check for worn out parts. The class also includes maintenance and troubleshooting engines.

Cabinetmaking Level 1 (Basic Woods)

Course Length: ___ Semester X Year

Pre-requisite: None

Grade Level: 9, 10, 11, 12

Fees: \$14.00

Co-requisite: None

Description:

A course of instruction on how to do the fundamental process in hand and machine wood working with particular stress on student participation in shop activities. The student will learn how to safely operate hand tools, portable electric tools and stationary power machines while building their individual projects.

Cabinetmaking Level 2, 3, 4 (Advanced Woods)

Course Length: ___ Semester X Year

Pre-requisite: Beg. woodworking/cabinetmaking 1

Grade Level: 10, 11, 12

Fees: \$16.00

Co-requisite: None

Description:

Selection, safe operation and care of the basic hand tools and woodworking machines are stressed, along with design, construction, and procedures for approved projects appropriately made on those tools and machines. After the prerequisite had been met, students can enroll in the class for level 3 and 4.

Leadership

Course Length: X Semester ___ Year

Pre-requisite: None

Grade Levels: 9, 10

Fees: None

Co-requisite: None

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Description:

Leadership is designed to allow students to explore character traits and to discover the characteristics that are needed to become an effective leader. Students are given the opportunity to apply the knowledge they gain of character and leadership through planning and implementing a community service project. Leadership is a course that provides students an opportunity to develop skills they will use throughout their lives.

Teen Living

Course Length: ____ Semester X Year

Pre-requisite: None

Grade Level: 9, 10

Fees: 10.00

Co-requisite: None

Description:

A year-long course planned in two independent but sequential semester/trimester segments. The emphasis of this course is to build on skills in the areas of personal development, relationships, human and family development, clothing, resource management, personal living space, nutrition and wellness, career choices and leadership skills. This course focuses on the student's role and responsibility as a teen participating in the family, school and community. FCCLA activities should be integrated into this course.

Nutrition & Foods

Course Length: X Semester ____ Year

Pre-requisite: None

Grade Level: 9, 10, 11, 12

Fees: 10.00

Co-requisite: None

Description:

Nutrition and Food is a beginning one-semester course designed to address nutrition and personal lifestyle. Content emphasis includes food safety and sanitation, food preparation techniques, meal management skills, consumer skills, etiquette, nutrition, health, and career options in nutrition and related fields.

Parent & Child Development

Course Length: X Semester ____ Year

Pre-requisite: None

Grade Level: 9, 10, 11, 12

Fees: 10.00

Co-requisite: None

Description:

This is a one- or two-semester course that emphasizes parenting choices and parenting decisions. Content includes pregnancy stages of prenatal development and the physical, intellectual, social and emotional development of the infant and young child. This course is designed to strengthen parenting and guidance skills, positive family relationships, safety, and health practices. Students will learn to evaluate child care services and to explore careers related to young children.

Adult Living

Course Length: ____ Semester X Year

Pre-requisite: Teen Living, Nutrition/Foods or Parent Child

Grade Level: 11, 12

Fees: 10.00

Co-requisite: None

Description:

The Adult Living curriculum focuses on the young adult as an individual preparing for responsibilities in a home, family, community and work environment. The student will gain relationship and life skills, knowledge of parenting roles and responsibilities, problem solving, resource management skills, leadership and employability skills. Adult Living is designed as two independent but sequential semesters recommended for 11th and 12th grade students. One

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semester will focus on life management skills and the second will focus on relationship skills. A community service or service learning experience planned as a part of this course is desirable.

Entrepreneurship

Course Length: ___ Semester X Year

Pre-requisite: Teen Living, Nutrition/Food or Parent Child

Grade Level: 11, 12

Fees: 10.00

Co-requisite: None

Description:

The focus of this program is the development of a school-based enterprise in which students acquire experience researching the market, and identifying the need for a product or service. Experience creating, producing and marketing a product or service becomes part of the program. Inherent in the process of establishing a business is development of a business plan, analysis of available financing opportunities, and researching the pros and cons of various types of business ownership. Once a business plan is finalized, students will market their product or services to develop a profitable enterprise. Cooperative learning, problem-based learning and inquiry are recommended learning strategies for this course. This program provides students the opportunity to determine characteristics of entrepreneurs, and to track the establishment of successful businesses from their inception.

Business Computer Apps 1

Course Length: ___ Semester X Year

Pre-requisite: None

Grade levels: 9, 10*, 11*, 12*

Fees: None

Co-requisite: None

Description:

This class provides students with computer-based competencies in word processing (Microsoft Word), Data-base management (Microsoft Access), Spreadsheets (Microsoft Excel), presentation graphics (Microsoft PowerPoint) and if time permits graphic design (Microsoft Publisher). This class meets the technology requirement for graduation and is generally taken the freshman year.

Business Computer Apps 2

Course Length: ___ Semester X Year

Pre-requisite: Business Computer Apps 1

Grade levels: 10, 11, 12

Fees: None

Co-requisite: None

Description:

This class takes the students beyond the fundamentals and offers them an in-depth presentation of Microsoft Word 2007, Microsoft Access 2007, Microsoft Excel 2007, and Microsoft PowerPoint 2007 integration. If time allows students will gain a beginner level competency of Adobe Photoshop. Students are expected to follow the same expectations as industry leaders-- arrive to work on time, meet deadlines, respect other employees (students), etc.

Web Design

Course Length: X Semester ___ Year

Pre-requisite: Business Computer Apps 1 (recommended)

Grade levels: 9, 10, 11, 12

Fees: None

Co-requisite: None

Description:

This course gives students a presentation of HTML, common Web page formats and functions, ZHTML guidelines, adding functionality to Web pages using JavaScript and DHTML, and the benefits of XML.

Web Design 2, 3, 4

Grade levels: 9, 10, 11, 12

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Course Length: ___ Semester X Year

Fees: None

Pre-requisite: Teacher Approval

Co-requisite: None

Description:

This course provides students with actual hands-on experiences associated with producing a yearbook. Writing, editing, photographic layout, desktop publishing and business management skills are emphasized. Students actually perform all skill necessary to produce a school yearbook.

Journalism

Grade levels: 9, 10, 11, 12

Course Length: X Semester ___ Year

Fees: None

Pre-requisite:

Co-requisite:

Description:

Broadcast Journalism will provide students with the skills and knowledge to be informed consumers of media in a technological society. The course provides the opportunity for students to learn basic journalistic and technological skills to be used in career choices and television production. Students will research, gather, and analyze information to create video productions for broadcast to a variety of audiences.

Arts & Crafts

Grade Level: 10, 11, 12

Course Length: X Semester X Year

Fees: \$16.00

Pre-requisite: None

Co-requisite: None

Description:

Industrial crafts will be organized on a general shop basis. The class will be organized into three groups: leather, jewelry, and art wood. Projects and exercises from each unit must be completed at the conclusion of the unit. Selection, safe operation, and construction procedures for projects will be emphasized in this course. This course can be taken for up to three years and receive credit. The level of instruction and projects are elevated for level 2 and 3.

Student Aide

Grade Level: 11, 12

Course Length: X Semester ___ Year

Fees: None

Pre-requisite: Teacher approval

Co-requisite: None

Description:

This course offers interested students the opportunity to assist teachers, administrators, in the preparation, organization, and distribution of instructional materials. Students may provide tutorial assistance to students under teacher guidance.

This position is by teacher approval only and GPA requirements may apply. Students will not be register directly for aide positions, but can submit requests to the office. Signatures are required by the student, teacher, and parent in order to be enrolled as an aide.

Distance Learning Lab (IDLA)

Grade Level: 10, 11, 12

Course Length: X Semester X Year

Fees: Dependent

Pre-requisite: Teacher approval

Co-requisite: None

Description:

Students interested in IDLA courses would most likely be students who need to make-up credits, need more elective choices, earn college credit, or cannot fit a required class within their current schedule. IDLA courses are taken within an outline environment. Students will be assigned to an

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online instructor and will be expected to converse with other students who are also in the course (through the online environment). Students are expected to achieve a passing grade in the online courses. If they do not, they will be responsible for repaying the district for all course fees. Home internet connection required.

Extended Language

Course Length: X Semester X Year

Pre-requisite: Teacher Approval

Description:

This course is a supplemental language usage class designed to give students additional assistance to ensure understanding of language usage classroom instruction and language usage ISAT testing items. Primarily for Special Education students, however, regular ed. Students need assistance to pass the ISAT may be enrolled.

Grade levels: 9, 10, 11, 12

Fees: None

Co-requisite: None

Extended Math

Course Length: X Semester X Year

Pre-requisite: Teacher approval

Description:

This course is a supplemental math class designed to give students additional assistance to ensure understanding of math classroom instruction and math ISAT testing items. Primarily for Special Education students, however, regular ed. students needing assistance to pass the ISAT may be enrolled.

Grade Levels: 9, 10, 11, 12

Fees: None

Co-requisite: None

Study Skills

Course Length: X Semester X Year

Pre-requisite: Teacher approval

Description:

This course provides students with educational services and assistance as needed. Reinforcement of any content area may be offered with the use of specific materials or teaching techniques through group instruction or individual tutorial assistance. Primarily for Special Education students, however, regular ed students needing assistance to pass the ISAT may be enrolled.

Grade levels: 9, 10, 11, 12

Fees: None

Co-requisite: