

NEW COURSES

Molalla High School

MHS Site Council has approved the following new courses to be included in our program for the school year 2015-16. While this approval does not assure their inclusion in next year's master schedule, we intend to offer them to students in the Forecasting process in February. The courses include Science, Business, and Music.

SCIENCE

Human Body Systems (2 trimesters) will eventually be tied to college credit, and would replace Anatomy and Physiology, possibly AP Biology as well.

Prerequisite: Biology A & B

Open to: 10th - 12th graders

Eventually we want to offer the entire 3-course "Project Lead the Way" Biomedical Sequence. This rigorous sequence is designed for students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Student activities would include investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease; all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future.

In the two trimesters of **Human Body Systems**, students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Introduction to Engineering Design (IED) (2 trimesters)

Prerequisite: none

Open to: All grades

The full PLTW Engineering sequence is more than just another high school engineering program. It is about applying engineering, science, math, and technology to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the "right" answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.

PLTW students have said that PLTW Engineering influenced their post-secondary decisions and helped shape their future. Even for students who do not plan to pursue engineering after high school, the PLTW Engineering program provides opportunities to develop highly transferable skills in collaboration, communication, and critical thinking, which are relevant for any coursework or career.

In this particular 2-trimester course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. This course is designed for 9th or 10th grade students. The major focus of the IED course is to expose students to the design process, research and analysis,

teamwork, communication methods, global and human impacts, engineering standards and technical documentation. This course teaches students to:

- Understand and apply the design process to solve various problems in a team setting;
- Apply adaptive design concepts in developing sketches, features, parts and assemblies;
- Interpret their own sketches in using computer software to design models;
- Understand mass property calculations-such as volume, density, mass, surface area, moment of inertia, product of inertia, radii of gyration, principal axis and principle moments-and how they are used to evaluate a parametric model;
- Understand cost analysis, quality control, staffing needs, packing and product marketing;
- Explore career opportunities in design engineering and understand what skills and education these jobs require; and
- Develop portfolios to display their designs and present them properly to peers, instructors and professionals.

Requisite: Concurrent enrollment in college preparatory Mathematics

BUSINESS

Note: Because the Business program was added late in the planning process last spring, Business courses currently being taught (2014-15) have not yet been formally presented in this venue. We have included those courses here for your information.

Courses Currently Offered:

Introduction to Business (1 trimester)

Prerequisite: none

Open to: All grades

This course is aimed at a student new to business courses. Topics covered will include: Basic Economic Concepts, Owning and Operating a Business, Government and Financial Influences on a Business. Students will explore these topics by reading the textbook, researching current events, participating in role-plays, creating posters, preparing classroom presentations and more.

This is a writing and reading intensive course. Students will be reading and writing on a daily basis to both develop and demonstrate skills in the course.

Introduction to Business Management (1 trimester)

Prerequisite: Introduction to Business

Open to: All grades

This course is intended to encourage students to develop critical understanding of organizations, the markets they serve and the process of adding value. The course will include consideration of the internal workings and management of organizations and, in particular, the process of decision-making in a dynamic external environment.

Students will work on developing problem solving skills, quantification and management of information and effective communication. Topics covered will include: Management and Leadership, Motivation, Human Resource Management, Business Communication, and Operations and Project Management

Computer Applications (1 trimester)

Prerequisite: none

Open to: All grades

This course is designed to provide you exposure to some of the computer software programs within the Microsoft Office 2013 Suite, including basic and advanced features in word processing, spreadsheet application and presentations. Students will also be introduced to Google Drive, Google Docs and Prezi, all available on the World Wide Web (www).

This course is being articulated with CCC allowing students to earn 4 college credits, upon successful completion and registration with CCC.

Business Law I (1 trimester)

Prerequisite: none

Open to: All grades

This trimester-long course is designed to allow students to explore the basic principles of business law and to provide students with an introduction to personal law. Students will gain an awareness of how the legal system was developed and how it continues to adapt as society progresses through changing times. The course will introduce the different areas in which Law affects their business dealings, and how the laws is in place for their protection both as professionals and consumers. Topics covered will include: Laws and the Legal System, Criminal and Civil Law, Contract Law, Sales Law, and Property Law.

Personal Finance (1 trimester)

Prerequisite: none

Open to: All grades

This course will provide students with a foundational understanding for making informed personal financial decisions leading to financial independence. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes.

Courses To Be Added for 2015-16

Business Law II (1 trimester)

Prerequisite: Business Law I

Open to: All grades

This course is designed to allow students to expand their understanding of business law. The course will encourage students to take part in the decision-making process as a citizen of their local, national, and international communities. Topics covered will include: Agency and Employment Law, Legal Forms of Business Organizations, and Borrowing Money and Paying Bills.

Accounting I (1 trimester)

Prerequisite: none

Open to: All grades

This course is designed to motivate students to be interested in accounting and to see accounting as the language of business. In this course students will practice accounting concepts and procedures, debits and credits, the full accounting cycle and banking procedures. This course will need a workbook that students will purchase.

Accounting II (1 trimester)

Prerequisite: Accounting I

Open to: All grades

This trimester-long course is designed for students who have successfully completed Accounting I. In this course students will continue learning accounting by engaging in payroll procedures, recording sales and cash receipt, purchases and cash payments, and preparing worksheets for merchandising companies. Students can receive credit from CCC if they complete both Accounting I/II.

Managerial Accounting (1 trimester)

Prerequisite: Accounting I/II

Open to: All grades

This course is designed for students who have completed Accounting I and II. The course covers more advanced topics, broadening the student's understanding of the subject. The student will learn the asset, capital, and liability section of the balance sheet, statement of cash flows and financial statement analysis, manufacturing accounting, the voucher system, and departmental accounting.

Marketing (1 trimester)

Prerequisite: none

Open to: All grades

The marketing course introduces students to the concerns and techniques for marketing products and services in a competitive environment. Students learn concepts of contemporary marketing, inputs for market research such as consumer buying behavior, business marketing and buying power of a business.

Students will learn the importance and technique for marketing planning including market segmentation and target marketing. They will learn about product strategy; price strategy and determination and the importance of distribution channels including wholesaling and retailing. They will also learn about advertising and public relations including planning sales promotions, event marketing. This course will be articulated with CCC.

Business English (1 trimester)

Prerequisite: none

Open to: All grades

This course is designed to introduce students to the latest trends in business through the use of authentic texts reflecting the business world. Students will continue to develop their grammar skills while building on the language competencies of reading, writing, speaking and listening. Throughout the course students will recognize and evaluate active listening skills, prepare and evaluate business presentations, prepare business correspondence correctly, clearly, and concisely and practice speaking confidently, correctly, tactfully, and convincingly.

Entrepreneurship or Merchandising (1 trimester)

Prerequisite: 1 or more of the following: Intro to Business, Marketing, or Accounting

Open to: All grades

Entrepreneurship *or* Merchandising is a specialized business course providing instruction of business practices that support the sale of products to retail customers. Emphasis is placed on oral and written communications, problem solving, and critical thinking skills as they relate to business operations, product design, selling, pricing, distribution, retail promotion, and accounting.

Because the course is built around actually running a business, it would need to run every trimester throughout the school year, with students enrolled for at least 2 trimesters. In its first year in the program, it would focus on creating a business that could become an ongoing incoming source for Molalla High School. Subsequential years would either run the business created by the first-year students *or* create a new business just as the first-year students did.

MUSIC

Wind Ensemble (3 trimesters)

Prerequisite: Audition

Open to: All Grades

The Wind Ensemble is a select group of around 30 Band students determined by audition. They will be the group that represents the school at competitions. The target participant is the advanced musician in the school that could be pushed to play more challenging literature with advanced musical concepts. Organizing the Band into two levels will allow the more advanced students to be pushed harder to achieve to their abilities, while in the regular Band class, the less experienced musicians, and even beginners, can receive the attention they need to improve at a faster rate.