

[9] Advanced techniques using large form construction and long-term projects are utilized

planning to major in business are strongly encouraged to take this course.

[32] Microsoft's Excel software dominates the marketplace. With an estimated 90% market share, it is found on nearly every business computer. Microsoft Excel is used to calculate financial and statistical information and is used in a w]

[44] Virtual Enterprise is an in-school, live, global business simulation that offers students a competitive edge through project-based, collaborative learning and the development of 21st century skills. There is a strong emphasis on entrepreneurship, global business, problem solving, communication, personal finance and technology. VE replicates all the functions of real businesses in both structure and practice. Students create and manage their virtual businesses from product development, production and distribution to marketing, sales, human resources, accounting/finance and web design. Successful completion of Accounting or previous business courses is recommended for this advanced course.

[45] IB Business Management SL is a one-year course that may be used to fulfill the elective requirement of the IB Diploma Program or t s, acc a buntinc f ioa l arogr t s, acc a

influences. We will also attempt to make historical correlations to modern day issues in America dealing with race. Students will be required to question and break down stereotypes about people of African descent. Students will also learn about different cultural aspects of African American history. Students will gain greater insight about what it means to be African American, a person of color, or minority in America. Videos, music, a selected text, as well as Internet sources will be utilized to achieve our objectives*. An educational field trip to the Schomburg Center for Research in African American culture will also be an excellent way to facilitate greater understanding of African American culture. *There will be a research paper and presentation assigned based on the major themes that we will be covering in the course.

[57] Additional Prerequisites: Successful completion of both the Living Environment and Chemistry. Students in this course will have the opportunity to explore the science of the crime scene, and apply the principles from the fields of chemistry, biology, physics and earth science to analyze and interpret evidence. Students will be introduced to advances in scientific methods that have been used to assist law enforcement with an emphasis on the techniques used in evaluating physical evidence at crime scenes. Topics include fingerprint, forensic anthropology, hair and fiber analysis, proper crime scene analysis and modern advances in DNA detection. Students interested in pursuing a career in law investigation should find this course a valuable introduction to the field of criminal investigation. Laboratory investigations are incorporated into the daily lessons.

[58] The Advanced Placement Psychology course is taught through the suggested curriculum of the College Board. Its purpose is to introduce students to the systematic and scientific study of the behavioral and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their theory and practice. A course project focusing on a real-life application of course topic material will be explored and students

will

at the end of the course. qualified juniors and seniors will be considered for

steam and rotary engines and trouble shoot simple engine problems. Time will be devoted to electric motors and electrical equipment.

[68] Metallurgy is an introductory level course that gives students the opportunity to work with a variety of metal tools including a bender, shear, panbox brake and machines to shape various metals into finished products. Students will have multiple options for projects that may include; a sheet metal toolbox, aluminum lighted silhouette, sheet metal car and/or wind chime. Students will learn the importance of the metal working industry and many of the associated careers.

[69] This course is designed for the student who is interested in “green solutions” to meet the needs of emerging sustainable building trends. Students will explore the technology, tools, materials and strategies of environmental solutions to modern residential construction concerns. Cutting edge careers will be examined as careers of the future. This course will include terminology, working drawings (blueprints), the selection and purchase of materials, cost and payback, and more. Strong emphasis will be given to local building codes and zoning laws. Students will gain hands on experience by planning and constructing a shed that incorporates various aspects of green design.

[70] Know Your Car is an elective designed to enlighten students about the responsibility of car ownership. Purchasing a car is an expensive proposition. This course will discuss how to research and purchase new and used vehicles, the proper maintenance of a vehicle, current NYS requirements for insurance (collision general liability) and general car maintenance (winterizing, cooling, ignition and brake systems, lubrication, fixing a flat tire and required oil changes) to assist them in the basic operation and care of their vehicles.

[71] This course focuses on basic electrical theory and application. Students will learn about the generation, transmission, and distribution of electrical energy. Students will gain hands-on experience building basic circuits that we can find in a home. These include light sockets, two and three way switches, and receptacles. Students will study the wire and building codes associated with residential electrical work, as well as learn the terminology and how to use the basic tools of the electrical trade. The students will pass competency tests to move onto the next stage of learning. The tests will be accompanied by hands-on assessments which let the students apply the knowledge they have obtained. Prerequisite knowledge is basic algebra and arithmetic skills, and a willingness to learn.

[72] This course is designed to teach students how to create virtual drawings, blueprints and building plans. Students will learn the AutoCAD software and use commands that mimic the standard pencil and paper drafting techniques. Students will complete a series of mechanical drawings that build on one another. Finally, they will finish the semester with a capstone project in which they design and create a floor plan of their dream house. The skill of using AutoCAD is in high demand in technical fields such as engineering, manufacturing, architecture, and building construction. Students interested in any of these fields should consider taking Technical Drawing and Intro to AutoCAD. Prerequisite: Technical or Architectural Drawing preferred.

[73] This course is designed to teach students the history of astronomy, the nature of planetary systems, and the formation of stars, galaxies, and the universe. Students will learn about the various celestial phenomena visible in our night sky (eclipses, shooting stars, aurora borealis, etc), space exploration, the motions of celestial objects, and history of constellations as it relates to Greek Mythology. Requires successful completion of Earth Science.

assembly to model how a moving object works. After demonstrating proficiency with the Autodesk Inventor software, students will complete a capstone project^{pmj}

health promotion to risk reduction to the prevention and management of health problems. The high school student is at a critical stage of development. These students are in the process of making major health decisions regarding smoking, alcohol, and drugs, sexuality, nutrition, stress, exercise and personal safety. Many of the decisions made and the *h

