

5045 SECURITIES & INVESTMENT

Grades: 10-12

Credit: .5

Prerequisite: Principles of Business, Marketing, and Finance & Information Technology



Planning finances and investments; managing banking, insurance, and business finances.

Students will describe and abide by laws and regulations in order to manage business operations and transactions in the securities industry; access, process, maintain, evaluate, and disseminate information to assist in making decisions common to the securities industry; and monitor, plan, and control day-to-day securities organization activities to ensure continued business functioning. Students will use career planning concepts, tools, and strategies to explore, obtain, and develop a career in the securities industry. Students will determine client needs and wants and respond through planned, personalized communication to influence purchase decisions and enhance future securities sales opportunities.

5050 ACCOUNTING

Grade: 10-12

Credit: 1

Prerequisite: None

Counts as college credit – see Tech Prep section (pg.104)



Planning finances and investments; managing banking, insurance, and business finances.

A one-year course designed for students to consider the field of accounting, including how it is impacted by business standards as well as economic, financial, technological, legal and ethical factors. Students reflect on this knowledge as they take in the process of recording, classifying, summarizing, analyzing, and communicating information. Students will interpret financial information for use in business decision-making. This course is a must if the student wants to pursue a business major in college.

5055 STATISTICS AND RISK MANAGEMENT

Grades:

Credit:1 (*May count as 4th year Math credit*)

Prerequisite: Accounting I & Algebra II



Planning finances and investments; managing banking, insurance, and business finances.

In Statistics and Risk Management, students will learn how to take large collections of data and apply statistical analysis to assess risk. Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will develop forecasting and anticipation techniques designed to work with a business model to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid. Refer to page 48 - 50.

HEALTH SCIENCE CAREER CLUSTER

5430 MEDICAL SCIENCE

Grades:10-12

Credit:1 (*1 credit of Medical Science can be substituted for the required .5 credit of Health.*)

Prerequisite: Biology

Counts as college credit-see Tech Prep section (pg. 104)



Providing diagnostic and therapeutic services, health information, support services, and biotechnology research and development.

This course provides an introduction to the therapeutic, diagnostic, health informatics, support services and biotechnology research and development systems of the Health Care Industry. Students will be given the opportunity for advancement of knowledge and skills related to a variety of health careers. Students will have hands-on experiences to develop skills, and should be able to learn to reason, think critically, make decisions, solve problems and communicate effectively. This course includes the study of Medical Terminology, ethics, legal issues, anatomy physiology, disease processes, critical attributes of patient relationships, and management of patient care. Students receive CPR certification, training in first aid techniques, and vital signs assessment. This course is recommended for anyone interested in a health care career.

4845 MEDICAL TERMINOLOGY

Grades: 11-12

Credit: .5

Prerequisite: Biology

Counts as college credit-see Tech Prep section (pg.104)



Providing diagnostic and therapeutic services, health information, support services, and biotechnology research and development.

A course designed to develop a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. This course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology and pathophysiology. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care. This course will be linked to Medical Microbiology.

4865 MEDICAL MICROBIOLOGY

Grade: 11-12

Credit: .5

Prerequisite: Biology



Providing diagnostic and therapeutic services, health information, support services, and biotechnology research and development.

This lab-based course introduces students to the study of pathogens (disease causing organisms) in the context of microbiology. Students develop an awareness of how pathogens attack human systems and affect normal functioning & wellness.

5450 CLINICAL PRACTICUM IN HEALTH SCIENCE

Grades: 11-12

Credit: 2

Prerequisite: Medical Science & must provide own transportation

Counts as college credit-see Tech Prep section (pg. 104)



Providing diagnostic and therapeutic services, health information, support services, and biotechnology research and development.

This course is designed to allow students practical application of previously studied knowledge and skills. Students will explore a variety of health careers by shadowing health care professionals in many different settings. Clinical opportunities include options like rotations through physical therapy, radiology, nursing care, pharmacy, emergency medicine, surgery, nursery, intensive care, laboratory, and veterinary medicine. The course involves clinical experience under the supervision of the coordinator and health care personnel and classroom experience. Students should recognize that quality health care depends on the ability to work well with others. Students will have intimate knowledge of their patients and therefore will become very familiar with the legal and ethical aspects of health care and the privacy laws that govern it. Students interested must have reliable transportation to and from the hospital and other health care settings.

5435 MEDICAL INTERNSHIP PRACTICUM

Grade: 12

Credit: 2

Prerequisite: Clinical Practicum in Health Science; must provide own transportation
Biology, Chemistry, offered only to students who have met the TAKS science requirements.



Providing diagnostic and therapeutic services, health information, support services, and biotechnology research and development.

This course is designed as an occupationally specific course to provide knowledge and skills toward certification and/ or license in an allied health career. Students develop advanced clinical skills necessary for employment in the health care industry or continued education in health careers. Students must have reliable transportation to and from clinical sites. Some Certification classes offered at FHS include Emergency Medical Technician- Basic and Pharmacy Technician. Upon completion of the required class and clinical experience, students may sit for the perspective regulatory test and upon passing the test, become certified. Certification is not mandatory, but is highly encouraged.



Providing diagnostic and therapeutic services, health information, support services, and biotechnology research and development.

4610 ANATOMY and PHYSIOLOGY OF HUMAN SYSTEMS

Grade: 11 - 12

Credit: 1

Prerequisite: Biology, Chemistry, offered only to students who have met the TAKS science requirements.

Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems.

HOSPITALITY CAREER CLUSTER

5300 PRINCIPLES OF HOSPITALITY & HUMAN SERVICES

Grade: 9-12

Credit: 1

Prerequisite: None



Managing restaurants and other food services, lodging, attractions, recreation events, and travel-related services.

The course encompasses information on travel, tourism, restaurants, food beverage service and careers related to human services including nutrition & wellness, human growth, development and fashion & interior design. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry.

5330 LIFETIME NUTRITION & WELLNESS

Grade: 9-12

Credit: 1

Prerequisite: None



Managing restaurants and other food services, lodging, attractions, recreation events, and travel-related services.

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services and health sciences.