YCSD Multidivision Online Provider
Virtual Learning Program Courses

Business & Information Technology

BUSINESS FINANCE
Course # V61212

This course provides students with the opportunity to explore the many facets of financial decision-making in the world of business. Topics include: investigating the monetary system, studying economic principles, planning financial aspects of a business enterprise, managing financial activities for a business enterprise, learning management functions, and exploring careers in the area of finance.

BUSINESS LAW
Course # V6132

In this course, students explore the foundations of the American legal system and economic and social concepts as they relate to legal principles and to business and personal laws.

BUSINESS MANAGEMENT
Course # V6136

In this course, students study basic management concepts and leadership styles as they explore business ownership, planning, economics, international business, and human relations issues. Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC’s application process, placement testing procedures, and timelines must be followed.

COMPUTER INFORMATION SYSTEMS I
Course # V6612

In this course, students apply problem-solving skills to real-life situations through database, spreadsheets, word processing, and presentation software with integrated activities. Various digital input technologies, including speech recognition, are covered. This course prepares students to take the industrial certification exam to become a Microsoft Office Specialist (MOS). Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC’s application process, placement testing procedures, and timelines must be followed.

COMPUTER INFORMATION SYSTEMS II
Course # V6613

In this course, students expand upon the skills acquired in Computer Information Systems I by designing web pages and using integrated applications. Various digital input technologies, including speech recognition, are covered. This course prepares students to take the industrial certification exam to become a Microsoft Office Specialist (MOS). Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.
FINANCIAL PLANNING
Course # V61211

This course provides students with the opportunity to explore the many facets of financial decision-making involved in daily life. Topics include: money management, banking, investments, insurance, credit, budgeting, and other related financial issues. As they cover the various units of study in this course, students learn key strategies for planning a future that is financially secure.

English

ENGLISH 9
Course # V1130

This course focuses on oral and written communication in the areas of research, literary analysis, and technical forms. Critical reading skills, knowledge of literary forms, oral presentation, and interdisciplinary approaches are incorporated into literature instruction.

ENGLISH 10
Course # V1140

This course stresses reading from a variety of worldwide cultures and eras. Readings include various literary forms and consumer materials. Students use writing for evaluation and interpretation of ideas obtained through the readings. Small-group learning activities are used for the student to present and critique oral reports. In both reading and writing activities, including research, students gather information through the use of technology.

ENGLISH 11
Course # V1150

This course incorporates a study of American literature with interdisciplinary aspects of United States History. Emphasis is on written and oral communication encompassing expository, persuasive, and technical skills. Literary analysis, research, and technical writings are included.

ENGLISH 12
Course # V1160

This is an advanced language and composition course designed to prepare students for the Advanced Placement Exam. Emphasis is on the cultural development of English (British) literature and literature of other cultures by stressing major literary forms, themes, and techniques in an interdisciplinary approach. The student develops expository and technical writings. Comprehensive oral presentations and research projects reflect organizational skills, audience awareness, and appropriate vocabulary/grammar.

Foreign Language

SPANISH I
Course # V5510

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking,
reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

SPANISH II
Course # V5520

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

SPANISH III
Course # V5530

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing at a higher level with minimal use of English in the classroom. Emphasis is placed on real-life situations, reading materials, and producing short writings using more complex sentences and language structures within the cultural context of home life, student life, leisure time, vacation and travel.

General Topics

LEADERSHIP SEMINAR
Course # V982873

This course offers a study of theories of leadership with an emphasis on four strands: developing knowledge of self and others, defining leadership, developing leadership skills and practices, and practicing leadership through service projects.

LIFE PLANNING
Course # V98264

In this course, students focus on developing a life-management plan, developing strategies for life long career planning, coordinating personal and career responsibilities, and establishing a plan for using resources. Process skills, applicable to all subjects, are used throughout the course and include: thinking, communication, leadership, and management.

PROGRAMMING & GAME DESIGN I
Course # V98408

This course provides a solid foundation in the essentials of programming and game design. Students will use programming language and game-development software to create engaging, interactive games in a variety of styles. In addition to learning about game genres, students will study all aspects of the game-design process including hand-on projects that teach all elements of game development. This virtual course offers students opportunities to expand technology skills through analysis and development of online games, graphics and animation.

PROGRAMMING & GAME DESIGN II
Course # V98409
Students expand their knowledge of the game design industry while mastering event-driven game development through a series of interactive projects. Students will use programming techniques to include control structures, functions, parameters, objects and classes. Analysis of games elements are used as a fundamental principal in the design of games. XNA, C++ and other appropriate programming languages are used to develop a variety of games. Prerequisite: Programming & Game Design I.

Health P/E

HEALTH & PHYSICAL EDUCATION 9
Course # V7300

In this course, health units include: the study of disease, consumer and environmental health issues, first aid, and Family Life Education. Physical education units include instruction in physical fitness and conditioning, individual and dual sports, and team sports.

HEALTH & PHYSICAL EDUCATION 10
Course # V7405

This course is divided among classroom health, classroom driver education, and physical education. The health curriculum includes Family Life Education. The physical education curriculum includes the study of physical fitness, individual and dual sports, and team sports. Driver education focuses on classroom instruction.

PHYSICAL EDUCATION 11 A & B
Course # V75101 / V75102

The content for this course, based on the Standards of Learning, is determined by classroom instructors as appropriate to the skill level of the students.

PHYSICAL EDUCATION 12 A & B
Course # V76101 / V76102

The content for this course, based on the Standards of Learning, is determined by classroom instructors as appropriate to the skill level of the students.

History/Social Studies

WORLD GEOGRAPHY
Course # V22101

The focus of this course is the study of the world’s peoples, places, and environments, with an emphasis on world regions. The knowledge, skills, and perspectives of the course are centered on the world’s population and cultural characteristics, landforms and climates, economic development, and migration and settlement patterns. Using geographic resources, students will employ inquiry, research, and technology skills to ask and answer geographic questions and to apply geographic concepts and skills to their daily lives.

WORLD HISTORY I
Course # V2215
This course offers an historical and cultural study of world history and geography that enables students to explore the development of peoples, places, and patterns of life from ancient times until 1500 A.D. Emphasis is placed on geographic influences, with increased attention to the development and evolution of the nation-state. The theme of change with regard to scientific and technological advancements is highlighted. Attention is also focused on the connections between people and events prior to 1500 A.D. and those of contemporary times. Students have the opportunity to work with a variety of artifacts as well as primary and secondary sources.

WORLD HISTORY II
Course # V2221

This course offers an historical and cultural study of world history and geography that enables students to explore the development of peoples, places, and patterns of life from 1500 A.D. to the present. Emphasis is placed on geographic influences, with increased attention to the development and evolution of the nation-state. The theme of change with regard to scientific and technological advancements is highlighted. Attention is also focused on the connections between people and events of contemporary times. Students have the opportunity to work with a variety of artifacts as well as primary and secondary sources to uncover and understand specific historic events and issues.

VIRGINIA & UNITED STATES HISTORY
Course # V2360

This course provides a chronological study based upon an identification and analysis of the events, problems, issues, movements, and personalities that have affected the development of the United States from the Age of Exploration to the present. The student focuses on political, economic, cultural, and social history. Virginia’s role in the history of the United States is emphasized.

VIRGINIA & UNITED STATES GOVERNMENT
Course # V2440

This course is designed to ensure that students have an understanding of the origins and workings of the Virginia and United States political systems. The objectives require that students have knowledge of the Virginia and United States governments; the process of policy-making, with emphasis on economics, foreign affairs, and civil rights issues; and the impact of the general public, political parties, interest groups, and the media on policy decisions. United States political and economic systems are compared to those of other nations, with emphasis on the relationships between economic and political freedoms. Economic content covers the United States market system, supply and demand, and the role of the government in the economy.

PSYCHOLOGY
Course # V2900

This course includes a survey of the life and works of major contributors to psychology, an introduction to the various factors that influence behavior, and a description and explanation of changes in an individual's behavior and personality.

Marketing

INTRODUCTION TO MARKETING
Course # V8110
This basic elective course provides students with an understanding of marketing and prepares them for entry-level marketing employment.

**MARKETING I/CO-OP**  
Course # V8120

In this 3-credit course in the General Marketing concentration, students learn functions involved in the marketing of goods and services and develop competencies necessary for successful marketing employment including personal selling, advertising, visual merchandising, physical distribution, purchasing, market planning, product/service technology, and marketing mathematics. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education.

**MARKETING I/OE**  
Course # V8121

This 2-credit course provides the same classroom instruction as Marketing I/Co-op but requires 360 hours of occupational experiences.

**MARKETING II/CO-OP**  
Course # V8130

In this 3-credit course in the General Marketing concentration, students gain in-depth knowledge of marketing functions, the supervisory and management responsibilities for those functions, and Virtual Enterprise software. They also learn competencies important for successful supervisory management, employment, and advancement to other management positions. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education. Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC’s application process, placement testing procedures, and timelines must be followed.

**MARKETING II/OE**  
Course # V8131

This 2-credit course provides the same classroom instruction as Marketing II/Co-op but requires 360 hours of occupational experiences.

**Mathematics**

**ALGEBRA I A/B**  
Course # V31301 / V31302

These courses are studies of the algebraic concepts needed to solve algebraic equations. Students use algebra as a tool for representing and solving a variety of practical problems. Tables and graphs are used to interpret algebraic expressions, equations, and inequalities and to analyze functions. Matrices are used to organize and manipulate data. Students make connections and build relationships among algebra and arithmetic, geometry, and probability and statistics.

**GEOMETRY A/B**  
Course # V31431 / V31432
The content of these courses offers a study of plane, three-dimensional, and coordinate geometry. Methods of justification of theorems include: paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, and verbal arguments. The courses emphasize two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems.

**ALGEBRA II A/B**
Course # V31351 / V31352

The content of these courses provides a thorough treatment of advanced algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, matrices, sequences, and series. Emphasis is placed on practical applications and modeling. The courses also include a transformational approach to graphing functions.

**MATHEMATICAL ANALYSIS**
Course # V3162

This course extends students' knowledge of function characteristics and introduces them to another mode of mathematical reasoning. Students enrolled in Mathematical Analysis are assumed to have mastered Algebra II concepts and have some exposure to trigonometry. The content of this course serves as an appropriate preparation for a calculus course. Graphing calculators or computer graphing simulators are used. NOTE: The requirement of a prerequisite of Algebra II/Trigonometry or Trigonometry begins in the 2008-2009 school year.

**TRIGONOMETRY**
Course # V3150

This course provides a thorough treatment of trigonometry through the study of trigonometric definitions, applications, graphing, and solving trigonometric equations and inequalities. Emphasis is placed on using connections between right triangle ratios, trigonometric functions, circular functions, the language of mathematics, logic of procedure, and interpretations of results. Applications and modeling are included.

### Science

**EARTH SCIENCE**
Course # V4210

Major topics of study in this course include: plate tectonics, the rock cycle, earth history, the oceans, the atmosphere, weather and climate, the solar system, and the universe. Course objectives connect the study of the earth’s composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Historical contributions in the development of scientific thought about the earth and space are emphasized. The interpretation of maps, charts, tables, and profiles; the use of technology to collect, analyze, and report data; and science skills in systematic investigation are stressed. Application, problem solving, and decision-making are an integral part of the science standards, especially as they relate to the costs and benefits of utilizing the Earth’s resources.

**BIOLOGY I**
Course # V4310
This course is designed to provide a detailed understanding of living systems. Emphasis is placed on the skills necessary to examine alternative scientific explanations, actively conduct controlled experiments, analyze and communicate information, and acquire and use scientific literature. The history of biological thought and the evidence that supports it are explored and provide the foundation for investigating biochemical life processes, cellular organization, mechanisms of inheritance, dynamic relationships among organisms, and the change in organisms through time. The importance of scientific research that validates or challenges ideas is emphasized at this level. Selected organisms are dissected.

CHEMISTRY I
Course # V4410

This course is designed to provide a detailed understanding of the interaction of matter and energy. This interaction is investigated through laboratory techniques, manipulation of chemical qualities, and problem solving applications. Scientific methodology is employed in experimental and analytical investigations, and concepts are illustrated with practical applications. Technology, including probeware, graphing calculators and computers, is used where appropriate. Students understand and use safety precautions with chemicals and equipment. Course objectives emphasize qualitative and quantitative study of substances and the changes that occur in them. Guided by the Chemistry SOL, students are encouraged to share their ideas, use the language of chemistry, discuss problem-solving techniques, and communicate effectively.

PHYSICS I
Course # V45101

Key areas covered in this course include: force and motion, kinetic molecular theory, energy transformations, wave phenomena and the electromagnetic spectrum, light, electricity, fields, and non-Newtonian physics. The course emphasizes a complex understanding of experimentation, the analysis of data, and the use of reasoning and logic to evaluate evidence. The use of mathematics, including algebra, inferential statistics, and trigonometry, is important, but conceptual understanding of physical systems remains a primary focus. Students build on basic physical science principles through in-depth exploration of the nature and characteristics of energy and its dynamic interaction with matter. Course objectives stress the practical application of physics in other areas of science and technology and how physics affects our world.

ECOLOGY & ENVIRONMENTAL SCIENCE
Course # V4340

This applications lab science course teaches the relationship between people and their environment. The course stresses the significance of ecosystems, food, water, air, soil, mineral, and energy resources. Laboratory experiences provide a study of air, soil, and water pollution; food webs; endangered animals and habitats; energy sources; and recycling.

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