CISD SECONDARY SUMMER SCHOOL 2010

Summer School High School Credit Recovery Courses

ALGEBRA I

2100Y (2100 A & B)

Grade: 9-12 Level: 2 Credit: 1

Prerequisite: Eighth grade mathematics (for 9th grade students)

This course introduces variables, constants, expressions, and equations and provides the connection between symbolic language and real world applications. Students will analyze situations verbally, numerically, graphically, and symbolically. Major topics include: the real number system, algebraic properties, functions and graphs, linear equations and inequalities (including systems), polynomials and factoring and an introduction to quadratic equations. Students will also use a variety of representations, tools, and technology to model mathematical situations and solve meaningful problems.

ALGEBRA II

2300Y (2300 A & B)

Grade: 9-12 Level: 2 Credit: 1

Prerequisite: Algebra I, Geometry

This course expands on the topics covered in Algebra I and Geometry, providing further development of the concept of a function. Major topics include the complex number system, linear functions, systems of equations and inequalities, conic sections. Students will use a variety of representations, tools, and technology to model mathematical situations and solve meaningful problems involving linear, quadratic, polynomial, exponential, logarithmic, and radical functions.

BIOLOGY

3100Y (3100 A & B)

Grade: 9-12 Level: 2 Credit: 1

Prerequisite: None

The biology course provides investigation of the structure and functions of cells, including cellular growth, reproduction, genetics and simple, multi-cellular and complex life forms. In addition, it involves the study of the six kingdoms.

BUSINESS INFORMATION MANAGEMENT (BCIS)

7003Y (7003 A & B)

Grades: 9-12 Level: 2 Credits: 1

Prerequisite: None

This is a project based course that prepares students with advanced technology skills. Using Microsoft Word, students will create documents in a variety of published formats. Using Microsoft Access, students will learn to create and design databases. Using Microsoft Excel, students will learn to create and design spreadsheets, charts and graphs. Using Microsoft PowerPoint, students will learn to create multimedia presentations, identify guidelines for using graphics, documents, and presentation, and utilize the internet. Students will work in small student led groups planning a scheduling their own deadlines.
Eligible for DAP measure.

CHEMISTRY

3311Y (3311 A & B)

Grade: 10-12 Level: 2 Credit: 1

Prerequisite: None

The course is designed to provide a lab approach to the study of matter. Problem solving and mathematical applications are emphasized. (Concurrent enrollment in Algebra II is recommended.)

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CONCEPTUAL PHYSICS

3411Y (3411 A & B)

Grade: 10-12 Level: 2 Credit: 1

Prerequisite: None

The focus of the course is on critical thinking rather than mathematical problem solving. Equations are used as guides to thinking. The forms of energy studied are mechanical heat, light, sound, electrical and nuclear. (For sophomores, a grade of at least an 80 in biology and Algebra I is recommended. For juniors and seniors, prior completion of biology and IPC is recommended.)

ENGLISH I

1100Y (1100 A & B)

Grade: 9 Level: 2 Credit: 1

Prerequisite: **None**

This course continues developing reading, writing, and oral language skills. An emphasis is placed on reading a wide variety of literary and informational texts while extending compositional skills to include various modes of writing. Language studies focuses on the analysis of diction and syntax within student-created and published texts.

ENGLISH II

1200Y (1200 A & B)

Grade: 10 Level: 2 Credit: 1

Prerequisite: None

The coordination of literature, composition, language and reading is stressed. Composition skills extend on those from English I. Language studies includes advanced vocabulary, the study of the grammatical structure of sentences, and correct usage.

ENGLISH III

1300Y (1300 A & B)

Grade: 11 Level: 2 Credit: 1

Prerequisite: **None**

This course explores major authors, periods and forms in American literature. The grammatical, mechanical, and syntactical skills of language are integrated into written and oral discourse including multi-paragraph compositions, analyzing literature, and incorporating information with documentation.

GEOMETRY

2200Y (2200 A & B)

Grade: 9-12 Level: 2 Credit: 1

Prerequisite: Algebra I

Geometry consists of the study of geometric figures and the relationships among them. Students use spatial reasoning and geometric thinking to understand mathematical concepts, study properties and relationships having to do with size, shape, location, direction, and orientation of these figures, study the connection between geometry and the real world and use geometric ideas, relationships, and properties to solve problems. Students also solve meaningful problems by representing figures, transforming figures, and analyzing and proving relationships, and use a variety of representations, tools, and technology.

INTEGRATED PHYSICS AND CHEMISTRY (IPC)

3200 (3200 A & B)

Grade: 10-12 Level: 2 Credit: 1

Prerequisite: None

IPC is a hands-on science course designed to introduce the student to basic physics and chemistry concepts. Some of the physics concepts are: force and motion, work and simple machines, energy and heat, wave types and uses, electricity and magnetism. Some of the chemistry concepts are: properties of matter, energy changes, periodic table, chemical bonding, chemical reactions, solution chemistry, pH, and acids and bases. Safety, general lab procedures and scientific inquiry methods are applied.

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MATHEMATICAL MODELS WITH APPLICATIONS

2251Y (2251 A & B)
Grade: 10-12 Level: 2 Credit: 1
Prerequisite: Algebra I, Geometry
NOTE: THIS COURSE MAY NOT BE TAKEN AFTER ALGEBRA II. In this course students use mathematical models from algebra, geometry, probability and statistics in both mathematical and nonmathematical to solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Students will use a variety of representations, tools, and technology to link modeling techniques and purely mathematical concepts.

SPANISH I

6011Y (6011 A & B)
Grade: 9-12 Level: 2 Credit: 1
Prerequisite: None
The content of the course concentrates on speaking and understanding simple non-technical sentences, and writing and reading with an emphasis on simple grammar patterns and topical vocabulary in the language. Basic cultural customs and differences will be introduced. Beginner oral proficiency level.

SPANISH II

6021Y (6021 A & B)
Grade: 9-12 Level: 2 Credit: 1
Prerequisite: Spanish I
The content of the course will expand the use of the skills of listening, speaking, reading, and writing. The instruction in grammar and vocabulary is designed to enable students to read more difficult selections and prepare controlled composition. Oral proficiency demands increase. Cross-cultural studies are interfaced with the course.

U. S. HISTORY STUDIES SINCE RECONSTRUCTION

4300Y (4300 A & B)
Grade: 11-12 Level: 2 Credit: 1
Prerequisite: None
This course examines political, economic, social, and foreign policy development from 1877 to the Present.

WORLD GEOGRAPHY STUDIES

4100Y (4100 A & B)
Grade: 9-12 Level: 2 Credit: 1
Prerequisite: None
This course deals with the fundamentals of world patterns, including cultural, political, historical, and economic characteristics.

WORLD HISTORY STUDIES

4200Y (4200 A & B)
Grade: 9-12 Level: 2 Credit: 1
Prerequisite: None
This course covers the Prehistory through the Cold War.