



CHSW Program of Studies : Grade 9 Core Academics

English Department

001 ENGLISH 9 HONORS

Term: FY

Grade: 9

PBGR: 1.0 English

Prerequisite: Recommendation based on student's demonstration of exemplary performance in all aspects of the 8th grade curriculum.

This course is designed for motivated students who have demonstrated exceptional ability in English. It carries extra quality points in the computation of class rank, and work requirements exceed other grade nine English classes. Requirements include assignments based on a summer reading list and extensive quarterly independent readings. Literary genres including poetry, non-fiction, fiction and drama will be explored extensively in class. The literature will be analyzed for its relevance to life today, and discussions will focus on the connection between the past and the present. An intensive writing program geared towards literary analysis in preparation for the research paper required in 10 honors will be undertaken. Grammar and mechanics will be reviewed as necessary, and vocabulary-building units will be included.

002 ENGLISH 9

Term: FY

Grade: 9

PBGR: 1.0 English

Prerequisite: Recommendation based on student's demonstration of exemplary/proficient performance in 8th grade English curriculum.

This course is designed for motivated students who enjoy reading and analyzing texts. Students are exposed to world literature including fiction, non-fiction, poetry and drama. In addition to in-depth literary discussions conducted in class, independent quarterly reading assignments are required.

Students are involved in an intensive writing program that includes all forms of essay writing including the analytical literary response which helps develop students' higher order thinking skills and also fosters discovery of connections between students' lives and the literature. Vocabulary building continues, and grammar and mechanics are reviewed as necessary.

003 ENGLISH 9

Term: FY

Grade: 9

PBGR: 1.0 English

Prerequisite: Recommendation based on student's demonstration of emerging /beginning performance in 8th grade English curriculum.

This course is designed to help students improve their reading, writing, speaking and listening skills. Instruction focuses upon reading comprehension and analysis of a variety of genres including fiction, non-fiction, poetry and drama, and selections are geared toward student interest. Independent readings are required on a quarterly basis. The writing process is stressed to improve both clarity of writing and proficiency with writing mechanics. Individual and group presentations are included to help students with their speaking and listening skills.

Social Studies Department

101 WORLD HISTORY I HONORS

Term: FY

Grade: 9

PBGR: 1.0 Social Studies

Prerequisite: Teacher recommendation based on student's demonstration of exemplary performance in all aspects of the eighth grade Social Studies curriculum.

This course examines the historical and cultural developments of both Western and Eastern societies from the first river valley civilizations through the Classical Period and the Middle Ages up to the Renaissance. The course will help students to understand the chronological flow of events, the dynamics of change, and the critical links between past and present in the formation of the contemporary world. Emphasis is placed on the special significance of the role of Western civilization. The course will continue in grade 10 beginning with the reformation period in European history.

102 WORLD HISTORY I

Term: FY

Grade: 9

PBGR: 1.0 Social Studies

Prerequisite: Teacher recommendation based on student's demonstration of both exemplary and proficient performance in varied aspects of the eighth grade Social Studies curriculum

This course examines the historical and cultural developments of both Western and Eastern societies from the first river valley civilizations through the Classical Period and the Middle Ages up to the Renaissance. The course will help students to understand the chronological flow of events, the dynamics of change, and the critical links between past and present in the formation of the contemporary world. Emphasis is placed on the special significance of the role of Western civilization. The course will continue in grade 10 beginning with the Reformation period in European history. By emphasizing study skills, students will learn communications skills and develop higher level thinking skills.

103 DEMOCRACY IN ACTION

Term: FY

Grade: 9

PBGR: 1.0 Social Studies

Prerequisite: Teacher recommendation based on student's demonstration of both exemplary and proficient performance in varied aspects of the eighth grade Social Studies curriculum

Students in grade 9 will be introduced to the concept of citizenship in a democratic society. "Democracy in Action" is designed to give students the tools to become active and effective participants in the world around them. Students will learn the knowledge, skills and values necessary to become a responsible citizen and will have the opportunity to apply these skills in real life situations. They will develop an appreciation for the democratic ideals embodied in the founding documents and develop a clear understanding of their rights and responsibilities as a participating member of our American democratic society. In this class students will improve communications skills, writing skills and develop higher level thinking skills.

104 DEMOCRACY IN ACTION

Term: FY

Grade: 9

PBGR: 1.0 Social Studies

Prerequisite: Teacher recommendation based on student's demonstration of both emerging and beginning performance in all aspects of the eighth grade English curriculum.

Students in grade 9 will be introduced to the concept of citizenship in a democratic society. "Democracy in Action" is designed to give students the tools to become active and effective participants in the world around them. Students will learn the knowledge, skills and



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values necessary to become a responsible citizen and will have the opportunity to apply these skills in real life situations. They will develop an appreciation for the democratic ideals embodied in the founding documents and develop a clear understanding of their rights and responsibilities as a participating member of our American democratic society. Students will improve their study skills through the content area

Math Department

300 ALGEBRA 1

Term: FY

Grade: 9-12

PBGR: 1.0 Mathematics

Prerequisite: Teacher recommendation

This challenging course integrates the more “modern topics” with the usual algebra content and emphasizes understanding fundamental ideas together with the development of skills. Among other activities, the student will recognize and use basic terms and symbols of algebra; recognize and apply the basic algebraic operations and simplifications including factoring; solve systems of linear sentences and apply them to the solution of real world problems; and solve quadratic equations by factoring, completing the square, and by quadratic formula. Students will apply their knowledge through course assignments that include writing, demonstrating and projects.

301 ALGEBRA 1

Term: FY

Grade: 9-12

PBGR: 1.0 Mathematics

PBGR: 1.0 Math Related

Prerequisite: Teacher recommendation

This challenging course integrates the more “modern topics” with the usual algebra content and emphasizes understanding fundamental ideas together with the development of skills. Among other activities, the student will recognize and use basic terms and symbols of algebra; recognize and apply the basic algebraic operations and simplifications including factoring; solve systems of linear sentences and apply them to the solution of real world problems; and solve quadratic equations by factoring, completing the square, and by quadratic formula. Students will apply their knowledge through course assignments that include writing, demonstrating and projects. This is a double-block course that provides additional math support for students.

311 GEOMETRY HONORS

Term: FY

Grade: 9-10

PBGR: 1.0 Mathematics

Prerequisite: Teacher recommendation

Honors Geometry is designed for the mathematically capable student who has successfully completed Algebra 1 in grade 8. Students are introduced to the formal structure of geometry, and will integrate geometry with arithmetic, algebra, and numerical trigonometry. Emphasis is placed on the use of precise language in the statements of definitions, postulates, and theorems. This is a rigorous course which is part of the honors math program. Students will apply their knowledge through course assignments that include writing, demonstrating and projects.

312 GEOMETRY

Term: FY

Grade: 9-12

PBGR: 1.0 Mathematics

Prerequisite: Algebra I or teacher recommendation

This challenging course provides an NCTM approach to the study of the properties of elementary proof, logic, angle relationships, perpendicular and parallel lines and planes, congruence, similarity, constructions, circles, areas, and coordinate geometry. Students will apply their knowledge through course assignments that include writing, demonstrating and projects.

Science Department

Science Sequence : Foundations for Physics (9), Chemistry (10), Biology (11)

401 FOUNDATIONS FOR PHYSICS HONORS

Term: FY

Grade: 9

PBGR: 1.0 Science

Prerequisite: Algebra I and teacher recommendation, taken concurrently with Geometry Honors

OR PBGR: 1.0 Math Related

This rigorous honors course will follow the general description and topic list outlined above, but will emphasize the strong connection between mathematics and science by providing students with frequent opportunities to apply basic mathematics and algebra concepts to science processes such as problem solving, collection and analysis of data, and evaluation of hypotheses. Use of algebra will increase as the year progresses. Students will design and conduct experiments, write lab reports, and conduct independent research on a variety of physics and technology topics using Internet and text sources. Successful completion of this course will provide students with a solid foundation for further honors coursework in science.

402 FOUNDATIONS FOR PHYSICS

Term: FY

Grade: 9

PBGR: 1.0 Science

Prerequisite: Pre-Algebra and teacher recommendation

This challenging course will follow the general description and topic list outlined above, utilizing primarily a conceptual approach but with increasing levels of math integration as the year progresses. Students will be given opportunities to apply pre-algebra concepts learned in their mathematics class to the study of physics principles and then study the relationships between these principles and the design of technology that improves their lives. Instruction in design of experiments, collection, analysis and interpretation of data and preparation of lab reports will be stressed.

403 FOUNDATIONS FOR PHYSICS

Term: FY

Grade: 9

PBGR: 1.0 Science

Prerequisite: Teacher recommendation

This conceptual physical science class will follow the general course description and topic list outlined above but will be designed for students in the process of achieving mastery of basic mathematics skills. Extensive use of hands-on activities and laboratory studies will provide students with concrete examples of physics concepts and principles that they experience in their daily lives. Post-activity instruction will provide students with opportunities to apply new knowledge to hypothetical situations as a way of developing abstract thought processes and problem-solving skills. Use of basic mathematics will be incorporated into the collection and analysis of data as the year progresses.