
Welcome to Dhahran High School

Using the DHS Course Description Booklet

All students are required to complete the course selection form provided in the application packet or available on-line. Students are reminded to choose their classes carefully. Students should discuss course descriptions with their parents, teachers, and counselor before completing the course selection form. Courses should be chosen that will challenge and prepare students for their future in colleges and universities. Students will be scheduled into the classes selected on the course selection form unless those classes are filled, the course does not meet the students' graduation requirements, does not fit their schedule, or the course is canceled.

Counselors make every effort to aid students in planning student high school programs, projecting these programs towards long-term college and career goals. The counselors will work hand in hand with the student and parents to assure the appropriate courses are incorporated into the student's schedule. Therefore, when selecting courses, we encourage students to consider both graduation and college/university education requirements.

- **Course Prerequisites:** Please read the course descriptions which follow before completing the course selection form. Prerequisites are listed in this Handbook below each course to help students and parents make the best educational decisions. Students must meet these prerequisites before they may enroll in certain courses.
- **Electives:** Students should select their required and elective courses **for the entire year** and then list electives, including alternative elective choices on the course selection form. These elective offerings are listed on the back of the course selection form. In the event that some elective classes are filled, students **will be** enrolled in their alternate choices in the order listed.
- **Repeat Credit:** Students will not receive credits for repeating a course that was passed previously with the exception of some Physical Education and Fine Arts courses as indicated in the course description.
- **Schedule Adjustments:** The need for schedule adjustments should be kept to a minimum. Valid reasons for requesting an adjustment are: 1) Graduation requirement; 2) Has not taken the prerequisite course required to take the class; 3) Did not sign up for the course; 4) Counselor recommendation. Adding and dropping courses will be allowed only during the first week of each semester, and in the case of AP classes, adjustments will need to be made with counselor, parent and teacher approval.
- **Advanced Placement/Honors Prerequisites:** Please see the attached Honors and Advanced Placement Addendum for this information.
- **AP Exams:** Students enrolled in an AP course are expected to take the spring AP exams. Each AP exam costs approximately 325 SAR due at the start of the second semester. High school students passing an end of course exam (scaled 1 – 5) with a 3, 4, or 5 often receive both DHS and university credit. While success in AP courses is highly regarded, each university chooses whether to offer university level credit.

Minimum Credits Required for Graduation: 24 Credits

English	4 credits
Math	3 credits
Science	3 credits
Social Studies	4 credits
*Global Languages	2 credits
Physical Education	2 credits
Fine Arts	1 credit
Technology	1 credit
Electives	3 credits
Health	.5 credit
Computer and Information Mgmt.	.5 credit
**Arabic Culture	.5 credit (repeated 1 semester each year)

**Languages must be consecutive years of the same language.*

***This course fulfills the Ministry of Education requirement. Students must take this course one semester of **every** academic year, unless enrolled in an Arabic Language course of study.*

Sample Academic Plan

Dhahran High School is a college preparatory high school. Successful completion of this college preparatory program will earn each student a high school diploma and will help to prepare them for a four-year college or university program. We assist each Dhahran High School student in developing a four-year academic plan to outline his or her own high school program. The school counselors are available to recommend course selections to assist students in engineering this plan. A sample plan follows:

<i>Freshman</i>	<i>Sophomore</i>	<i>Junior</i>	<i>Senior</i>
English 9	English 10	American Literature or AP Language & Composition	British Literature or AP Literature & Composition
(Alg 1) GEOMETRY	(Geom.) ALGEBRA 2	(Alg 2) PRECALCULUS	CALCULUS (Precalculus or other Math course)
Physical Science	Biology	Chemistry	Physics, AP Science or Other Science Course
Ancient World History	Modern World History	US History or AP US History	AP Economics, AP World History, or Other SS Course
Global Language I	Global Language II	Global Language III	Global Language IV or AP Global Language
Physical Education/ Health	Physical Education/ Elective	PE Elective/ Elective	PE Elective/ Elective
CI&M/ Arabic Culture	Technology/ Arabic Culture	Technology/ Arabic Culture	Elective/ Arabic Culture
Fine Arts and FA / Study Hall / PE	Fine Arts / Elective	Elective / Elective	Elective / Elective

Testing

The PLAN, SAT 10, PSAT, SAT I, SAT II, and ACT exams are offered on the Dhahran High campus.

- **PLAN:** Students at DHS take the PLAN in October of their sophomore year.
- **SAT10/OLSAT 8:** Students take the Stanford Achievement Test in the spring of their sophomore year.
- **PSAT:** Students take the Preliminary Scholastic Aptitude Test (PSAT) in October of their junior year.
- **ACT:** The American College Test (ACT) is offered in October and December to students in their junior or senior years. The ACT is a subject-based college entrance exam accepted by many colleges and universities in the United States.
- **SAT Exams:** SAT exams are offered to students at various dates during their junior and senior years. Students often take the Scholastic Aptitude Test (SAT I) and the subject area Scholastic Aptitude Test II (SAT II) in the spring of their junior year and/or fall of their senior year. Students should plan the subject area test if they are required by the colleges and universities to which they would like to apply.

College and University Requirements

It is the responsibility of each student to make sure that his or her academic plan for high school will meet the requirements for entrance into the college or university of his or her choice. Some programs may have additional requirements. Most American colleges and universities require that students graduate from an accredited or approved high school. **Dhahran High School is accredited by the Middle States Association of Colleges and Schools**, one of the six major U.S. accreditation agencies.

TOEFL

International students should plan to take the Test of English as a Foreign Language (TOEFL). The TOEFL is required of international students and students for whom English is a second language who are applying to colleges and universities in the United States, Great Britain, or other countries where the college/university language of instruction is English. **The TOEFL is offered online and in Dammam at two different sites for men and women.** More information is available online at www.toefl.org.

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ENGLISH

English 9

This is a required full year course in which students will explore a variety of literary genres and styles, ranging from a Greek epic poem to a modern American novel. Through the examination of various novels, short stories, poems, and plays, students will further develop their appreciation of literature. There will be a number of different focal points in this course, including: teaching students how to approach and analyze literature; developing written and oral communication skills; developing critical thinking skills; and improving grammar and vocabulary skills.

Text: McDougall Littell
Writer's Inc. (DC Heath)
Numerous novels

Credits: 1
Grade: 9
Pre-Requisite: None

English 10

This year-long sophomore English course is designed to teach students how to approach and analyze literature, improve written and oral communications skills, and improve grammar and vocabulary skills. Literature that spans the continents and the centuries will be read, enabling students to make connections to their concurrent World History classes. Direct instruction in grammar will be complemented by modeling reading strategies students can use independently to increase their comprehension levels. Texts that may be studied include Macbeth, All Quiet on the Western Front, Animal Farm, and Night.

Text: McDouglass Littell
Various Novels
Vocabulary Workshop

Credits: 1
Grade: 10
Pre-Requisites: Completion of Grade 9 English

English 10 Honors

This sophomore class aims to both test and challenge highly motivated and talented students of English, who wish to develop disciplined writing, analytical, rhetorical and presentational skills and some knowledge and appreciation of literary arts. The course includes study of grammar, a range of literary texts and an introduction to commentary. There is a conscious aim to prepare students for the styles of work required for AP level study in grades eleven and twelve. As such, work necessarily becomes harder as the course progresses. Students wishing to enroll must have high grades and strong self-direction to cope with the extensive reading required.

Text: Cry the Beloved Country; Night; MacBeth and 1984
Credits: 1
Grade: 10
Prerequisites: See AP/Honors Addendum

American Literature

Eleventh grade English is an American Literature course designed around the essential question "How are we to live?" and to provide an overview of the progression of American Literature from the 15th century to present day. Throughout the course students will read about, analyze, and discuss different theories of human nature in order to broaden their understanding of an experience. Noted American authors studied include Hawthorne, Miller, Fitzgerald, Hemingway, Whitman, Emerson, Thoreau, Dickinson, and others. Much of this literature study will be integrated with students' concurrent study of U.S. History.

Text: McDougal Littell: American Literature
Various American novels
Credits: 1
Grade: 11
Prerequisites: Completion of Grade 10 English

Advanced Placement Language and Composition

Students in this introductory college-level course read and carefully analyze a broad and challenging range of nonfiction prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. As this is a college-level course, performance expectations are appropriately high, the workload is challenging, and effective time management is important. The demanding curriculum requires students to bring sufficient command of mechanical conventions and an ability to read and discuss prose. The course is constructed in accordance with the guidelines described in the AP English Course Description.

Text: 50 Essays: A Portable Anthology by Samuel Cohen
Various Novels

Credits: 1

Grade Level: 11

Prerequisites: See AP/Honors Addendum

British Literature

Students read an overview of British literature from the Anglo-Saxon period to the Modern, integrating a study of history to better supply a context for an appreciation and understanding of the literature, with emphasis on a variety of prose and poetic genres. Students write critical and argumentative essays, complete a research paper, and engage in creative writing projects. Students will understand the characteristics and components of the media and make technology-assisted oral presentations.

Text: McDougal Littell: British Literature
Various British Literature novels

Credits: 1

Grade: 12

Prerequisite: Completion of Grade 11 English

Advanced Placement Literature and Composition

This is a college level course based around detailed study of literature of all genres from multiple countries and times. The course will involve both close reading and close analysis of texts, structural analysis, the writing of articulate and well-ordered essays, literary analyses and frequent multiple choice tests. The reading load will be heavy. The range of materials studied will assist students to form thoughtful and mature judgments that will be expressed in wide, appropriate and precise diction, varied sentence structure, effective use of rhetorical strategies and well chosen evidence that supports both specific and general themes. The range of texts to be studied is based on the AP recommended lists.

All literature has strong, philosophical foundations. Therefore, the course will appeal to talented and highly motivated students wishing to acquaint themselves with and test themselves against the themes introduced in the course. Those wishing to enroll should have at least a grade three on the AP Language and Composition exam, or at least a B+ from the American Literature course and a proven ability at commentary.

Text: Various Novels

Credits: 1

Grade Level: 12

Prerequisite: See AP/Honors Addendum

FINE ARTS

Arts and Crafts

This course is designed to introduce students to various forms of arts and crafts done both in modern era and ancient times. Students will learn and practice techniques using a number of different textiles and media. Participants will produce works of art displaying their skill and creativity. Examples of projects include mosaics, wood burning, stained glass, mirror etching, scratch art, collage, printmaking, ceramics, and pottery.

Credits: .5

Grade: 9 - 12

Prerequisite: None

Beginning Drawing and Painting

Realistic drawing will be the foundation of this section. Students will explore the use of different media. *Drawing on the Right Side of the Brain* will be the text. Painting will constitute secondary explorations.

Credits: .5
Grade: 9 - 12
Prerequisite: None

Advanced Drawing and Painting

This course will present further projects to help challenge the creative artist. Personal style and preferences in media will be allowed in this advanced drawing and painting class. Each artist will be responsible for his or her own compositions.

Credits: .5
Grade: 10 - 12
Pre-requisite: 1 credit in art, or permission of instructor

Studio Art (I, II, III or IV)

This semester-long course is designed for students who want to take up any field of art as a career. The students are given the freedom to explore their artistic potential, produce their own compositions, learn different techniques, and develop their own portfolio. The teacher will expect students to prepare proposals, to process and present their artwork, and to participate in an end-of-year art exhibition at which an outside professional will critique and evaluate their presentations.

Credits: .5 (Course may be repeated for credit)
Grade: 11 - 12
Prerequisite: Advanced Drawing, Art Foundations II, or permission of instructor

Honors Art

This course is an intensive confrontation of the creative process. Students will produce a portfolio of work that may be used for college applications, competitions, scholarship applications, and exhibitions. Honors Art program participants receive an authentic experience of studying visual art at the college level, as well as an opportunity to build their skills and portfolio, and to receive guidance in planning an education in art. Honors Art fosters an independent-artistic environment where student artists have the opportunity to work with the medium(s) and topic of their choice. Students in Honors Art develop a strong, thematic body of work over the course of one semester. Honors Art is an honors visual art course open to juniors and seniors who have met specific criteria necessary for acceptance into the class.

Credits: 1
Grade: 11 – 12
Prerequisite: See AP/Honors Addendum

Introduction to Theatre

This is a one-semester introductory drama course aimed at students with little or no drama background. The curriculum includes: pantomime, improvisation, characterization, stage movement, effective use of voice, creation of subtext, set design, and storytelling. Students will rehearse and produce one-act plays.

Credits: .5
Grade: 9 - 12
Prerequisite: None

Theatre II

Theatre II is far more in depth and has students rehearse and perform competition monologues and scenes. We dive into the psychology of acting, look at acting or different aspects of theater as a career choice, and do units on directing and producing live theater. We will also work at filming a drama for the first time.

Credits: .5
Grade: 10 – 12
Prerequisite: Introduction to Theater

Theatre Production

In Theatre Production students become certified in different areas such as stage make-up, costuming, lighting and sound design, backstage manager training, and props. With hands-on play preparations and behind-the-scenes training students will discover new artistic and script analyzing talents and skills.

Credits: .5

Grade: 10 – 12

Prerequisite: Introduction to Theatre

Digital Photography I

This semester course is designed to introduce the student into the basics of operating a digital camera, from different functions to modes, the student will become more acquainted with his camera. After the modes, the student learns the creativity of taking pictures by implementing the rules of composition.

Adobe Photoshop is the editing software used for this course. Students will learn basic editing techniques to improve their pictures. This course can be followed by Digital Photography II or a more advanced course.

Credits: .5

Grade: 9 - 12

Prerequisite: None

Special Requirement: Students are required to supply their own 33mm digital camera that must have fully manual capabilities.

Digital Photography II

This semester course expands upon what students learned in Digital Photography I. The course begins with an exploration of what makes great photographs. Each student will select a style and two photographers to study throughout the semester. The rules of composition should be understood before the student begins this course. Projects will be theme-based, such as photo essay, simplicity and beauty, and humanity. The course ends with a demanding independent study project. Throughout the course, students are expected to maintain a sketchbook where they will portray their ideas before beginning each project. This sketchbook will involve drawing, painting, charcoal, pastels, and images from magazines. Each student should have access to a quality digital camera and the desire to further their photography skills at a high level. Adobe Printshop and Photoshop Elements will be used extensively.

Credits: .5

Grade: 10 - 12

Prerequisite: Digital Photo I

Special Requirement: Students are required to supply their own 33mm digital camera that must have fully manual capabilities.

Band

This is an advanced year-long PERFORMANCE ENSEMBLE class for instrumental musicians in grades 9-12 with three or more years of band experience (or equivalent instrumental performance skills on a band instrument). High School Band will focus on preparation and performance of contemporary and traditional mature concert band literature. Included in the curriculum are individual and ensemble performance techniques, sight-reading, music vocabulary, and fundamental aspects of music theory and history. Emphasis is on immediate practical application of skills. This group will perform publicly for three major concerts as well as other events throughout the school year.

Credits: 1 (Course may be repeated for elective credit.)

Grade: 9 - 12

Prerequisite: Permission of the instructor.

Choir

Choir is a PERFORMANCE ENSEMBLE class for students in grades 9 – 12. Chorus members will work on individual practice and performance techniques: proper singing posture, breath control, pitch accuracy, vowel production, diction, and voice care. Within participatory lessons/rehearsals members will work on the above skills in an ensemble setting, working towards the musicality of the group. The choir will rehearse a variety of music in different styles and different languages with an emphasis on the practical application of newly acquired/developed skills. Choir members will culminate their learning in a concert each semester and other performances throughout the school year.

It is recommended to take CHOIR as a year-long course. Exceptions require director approval.

Credits: .5 or 1 (Course may be repeated for elective credit.)

Grade: 9 - 12

Prerequisite: Prior musical training is recommended along with a strong desire to learn to sing.

Beginning Guitar

Playing the guitar is a lifelong music skill which many students find very rewarding. This class assumes that the student is a complete beginner on guitar, with no previous music instruction. The ability to read music or play another instrument will be an asset--but is not necessary for success in the course. The focus of the class will be on learning chords and strumming patterns, and playing popular songs. Some music theory will also be covered. Upon completing the course, students will be well positioned to continue self-directed study in his or her area of interest.

Credits: .5

Grades: 9 – 12

Prerequisite: None

Special requirement: Student must supply his/her own acoustic guitar.

Intermediate Guitar

This course aims to develop students playing ability and appreciation of the guitar. The class will build on the skills and knowledge developed in Beginners Guitar. It will be a performance oriented and practice based class. Topics covered include guitar maintenance and care, rhythm patterns, chord construction, scales and soloing, picking technique, aspects of performance, and different musical styles.

Credits: .5

Grades: 10 - 12

Prerequisite: Completion of Beginning Guitar, or demonstrated ability (assessed by the instructor)

Special requirement: Student must supply his/her own acoustic guitar.

GLOBAL LANGUAGES

Minimum requirement of 2 consecutive years
of the same language

Arabic I

This is an introductory Arabic course for students who have little or no Arabic background. All four aspects of language are developed: listening, speaking, reading and writing, with special focus on reading skills. Students are introduced to Arabic culture through their textbook and supplementary activities.

Text: Ohibul Arabiya (Level 1, 2) (Arabic Bureau of GCC)

Credits: 1

Prerequisite: None

Special Requirement: Students must have Arabic enabled computer system

Arabic II

This course is progressively more advanced than Arabic I and is designed for students who have had at least one year of reading and writing the Arabic Language. Basic grammar and conversational skills will continue to increase proficiency in the four aspects of language learning.

Text: Ohibul Arabiya (level 2, 3) (Arabic Bureau of GCC)

Credits: 1

Prerequisite: Successful completion of Arabic I

Special Requirement: Students must have Arabic enabled computer system

Arabic III

Students will expand and review their Arabic skills from previous years and continue ongoing grammar and vocabulary development study. The focus of Arabic III will be on Arab Literature through which students will be introduced to different types of writing while working on selected authors through various texts and articles. Students will make oral presentations, hold discussions, and write essays in Arabic.

Text: Ohibul Arabiya (level 4,5) (Arabic Bureau of GCC)

Credits: 1

Prerequisite: Successful completion of Arabic II

Special Requirement: Students must have Arabic enabled computer system

Arabic IV

During this course student will have the opportunity to work on selected novels and authors to explore major genres of Arab literature and gain a deeper knowledge of Arab civilizations. They will further broaden their vocabulary and sharpen their composition skills. Students will also prepare projects and hold discussions, at their developmental level, on various topics related to the Arab world.

Text: Ohibul Arabiya (level 5, 6) (Arabic Bureau of GCC)

Credits: 1

Prerequisite: Successful completion of Arabic III

Special Requirement: Students must have Arabic enabled computer system

French I

This is an introductory French course for students who have had no prior high school level French. All four aspects of language are developed: listening, speaking, reading comprehension, and oral reading and writing. Students are introduced to French culture through their textbook and supplementary activities.

Text: Discovering French (Valette/Valette)

Credits: 1

Prerequisite: None

French II

This course is progressively more advanced than French I in grammar, conversation, and conjugations leading to increased proficiency in the four aspects of language learning. The use of increased vocabulary assists the student in oral presentations and essay writing.

Text: Discovering French (Valette/Valette)

Credits: 1

Prerequisite: Successful completion of French I

French III

This course is progressively more advanced than French II in grammar, conjugations, vocabulary and conversational skills leading to increased proficiency in the four aspects of language learning. A new focus on reading French literature begins in French III. The teacher will continue to expand on cultural studies through readings, videos, and many other supplementary activities.

Text: Discovering French (Valette/Valette)

Credits: 1

Prerequisite: Successful completion of French II

French IV

Students will continue to broaden their vocabulary base and to review grammar from the previous years of French study to expand their exploration of French literature and culture. During this course students will work with selected novels, plays, newspapers and films. Students will take part in oral presentations, debates, and discussions on current events and other issues of concern in French.

Text: Discovering French (Valette/Valette), Le Petit Prince

Credits: 1

Prerequisite: Successful completion of French III

Advanced Placement French Language

This is a full year college level course. This course will focus on the four aspects of language skills: listening, reading, speaking and writing. Students will develop the ability to read and understand literary texts, magazine articles and other material without consulting a dictionary. At the same time, students will be able to express themselves with reasonable fluency and accuracy in both written and spoken French. Materials used will vary between audio and video recordings, films, newspapers, magazines, novels, etc.

Text: Une fois pour toutes. AP French Language (Ellen Knauer) The Best Preparation for the AP French Language

Credits: 1

Prerequisite: See AP/Honors Addendum

Spanish I

Students learn Spanish grammar, structures, tenses, and vocabulary through a variety of themes and settings. The four skills of speaking, listening, reading, and writing are emphasized. Content includes present, present progressive, past, and simple future tenses of verbs, use of articles, noun/adjective agreement, formation of questions, telling time, expressing likes and dislikes, talking about self in general, giving directions, and informal imperatives. Development of Spanish vocabulary is key.

Text: Dime! Uno

Credits: 1

Prerequisite: None

Spanish II

Students continue their study of the Spanish language with the same equal emphasis on the four basic skills. This course is much more advanced than Spanish 1. In grammar, the students will continue studying the present and past tenses. They will be introduced to the imperfect, conditional, future and the present perfect. All these tenses are from the indicative mode. Beside these tenses, they will start the study of the subjunctive mode, present tense. Students will cover direct and indirect object, pronouns, reflexive pronouns, adverbs and superlatives, equal and unequal comparisons. The use of increased vocabulary assists the students in oral presentations and essay writing, pronouns, adverbs, superlatives, equal and unequal comparisons, simple subjunctives and the imperfect and future tenses.

Text: Dime! Dos

Credits: 1

Prerequisite: Successful completion of Spanish I

Spanish III

Previous Spanish language education is reinforced with the introduction of some literature. In terms of grammar, the subjunctive mode is studied in depth and also the formation of compound tenses. Vocabulary continues to be expanded and problems such as when to use subjunctive vs. indicative, ser vs. estar, and imperfect vs. preterit, are readdressed in more detail. Also at this point much more emphasis is placed on perfecting spoken Spanish.

Text: En Espanol!

Credits: 1

Prerequisite: Successful completion of Spanish II

Spanish IV

In a range of contexts likely to be encountered in a Spanish culture, Spanish IV students will have the opportunity to put into practice and manipulate the grammatical structures they have learned over time studying this global language. While advancing to higher levels of grammar, they will have the chance to read, write, and talk about different topics of relevance in native speaker countries. They will be able to interact successfully with a native speaker and to survive, and function fairly comfortably, in a Spanish culture.

Text: Dime! Dos, Pasaporte Al Mondu 21

Credits: 1

Prerequisite: Successful completion of Spanish III

Advanced Placement Spanish Language

The AP Spanish Language course is designed to be comparable to advanced level college-university Spanish language courses. It encompasses oral skills, reading comprehension, grammar, and composition. This course emphasizes the use of Spanish for active communication, to comprehend formal and informal spoken Spanish, and to read accurately newspapers, magazine articles and modern literature in Spanish. They should develop the ability to compose expository passages and to express ideas orally with accuracy and fluency.

Text: Una vez mas. Cough, James H., 2nd ed. White Plains, N.Y.: Longman, 1993

Credits: 1

Prerequisite: See AP/Honors Addendum

MATHEMATICS

	GRADE-LEVEL OPTIONS			
Pathway	9th Grade	10th Grade	11th Grade	12th Grade
I	H Geometry	H Alg. II (+Intro Prob and Stats.)	H Pre-Calc (+Intro Prob and Stats.) H Pre-Calc (+AP Stats)	AP Calc BC (+ Intro Stats or AP Stats) AP Calc AB (+ Intro Stats or AP Stats) AP Stats Intro Stats & Prob.
II	Geometry	Alg. II (+ Intro Stats) H Alg. II (+ Intro Stats)	College Algebra H Pre-Calc (+ Intro Stats or AP Stats) Pre-Calc (+ Intro Stats or AP Stats) Intro Stats & Prob. AP Stats	College Algebra Calculus AP Calc AB (+ Intro Stats or AP Stats) AP Stats Calculus (+ Intro Stats or AP Stats) Intro Prob and Stats.
III	Geometry Alg. I	Alg. II (+ Intro Stats) Geo. + Alg. II (+ Intro Stats) Int. Alg. Int. Alg. + Geo.	Algebra II Pre-Calc (+ Intro Stats or AP Stats) College Alg. (+ Intro Stats or AP Stats) Intro Prob and Stats. AP Stats	College Algebra Pre-Calculus Calculus AP Calc AB (+ Intro Stats or AP Stats) AP Stats Calculus (+ Intro Stats or AP Stats) Intro Prob and Stats.

Algebra I

This course is designed to give students the manipulative skills required to deal with linear and quadratic expressions and equations. Students study the properties of real number arithmetic and apply them to linear and quadratic algebraic expressions, formulae, equations, and inequalities. Operations with polynomials are covered in detail. Word problems and real-life applications are woven into the course material, and are vital to the course as they aid in the development of critical thinking and creativity in the students.

Text: Algebra (Larson, Boswell, Stiff)

Credits: 1

Grades: 9

Prerequisite: Transition Mathematics or another pre-algebra course

Special Requirement: Students will need a graphing calculator for this course. The TI-84 Graphing Calculators highly recommended, because the TI-84 will be used for all other classes up to and including Algebra II. TI-84's will be available for sale on campus but can be purchased at a lower price in North America.

Intermediate Algebra

This course will reinforce topics from Algebra I with an emphasis on areas from the second half of Algebra I. Some Algebra II topics will also be introduced, but at a slower pace. This course is designed for students who struggled with Algebra I, and may not yet be ready for Algebra II. This is also a good choice for age appropriate students transitioning from an integrated British curriculum. Some students will use this course as a stepping-stone to Algebra II; others may use it as their final high school algebra course. It will assist those not taking Algebra II in their preparation for SAT's. Students will be asked to solve, graph, factor, and simplify the following topics: Inequalities, Absolute Value Equations, Systems of Equations, Properties of Exponents, Quadratics, Polynomials, and Rational Equations. This course can be taken independently or concurrently with Geometry.

Text: Algebra (McDougal Littell, Algebra 1, 2004)

Credits: 1

Grades: 10 - 12

Prerequisite: Transition Mathematics, a pre-algebra course, or Algebra I; may be taken concurrently with Geometry.

Special Requirement: Students will need a graphing calculator for this course. The TI-84 Graphing Calculators highly recommended, because the TI-84 will be used for all other classes up to and including Algebra II. TI-84's will be available for sale on campus but can be purchased at a lower price in North America.

Geometry

This is a required full-year course. This course follows Algebra I and precedes Algebra II. This is the second course in the sequence, usually taken in the ninth or tenth grade. This course is the study of the real, physical world and of visualization, drawing and construction of figures. Geometry integrates coordinates and transformations throughout, and gives strong attention to measurement formulas and three-dimensional figures. Work with proof writing follows a carefully sequenced development of the logical and conceptual precursors to proof. Integrated throughout the text are concepts from algebra, applied, and discrete mathematics. Reading of the textbook is emphasized and expected for success. This course should be taken concurrently with Intermediate Algebra for students needing algebra review. This course can also be taken concurrently with Algebra II for strong mathematics students with teacher approval. This course is also offered at the Honors level with prior teacher recommendation. The Honors course is more rigorous and covers additional topics.

Text: Geometry (McDougal Littell), (Larson, Boswell, Stiff)

Credits: 1

Grades: 9 - 12

Prerequisite: Algebra I

Special Requirement: Students will need a graphing calculator for this course. The TI-84 Graphing Calculators highly recommended, because the TI-84 will be used for all other classes up to and including Algebra II. TI-84's will be available for sale on campus but can be purchased at a lower price in North America.

Honors Geometry

This is a full-year course that covers the same topics as Geometry, as well as additional topics. It is more rigorous and will cover approximately two to three more chapters, thus moving at a faster pace. This course can also be taken concurrently with Algebra II for strong mathematics students with teacher approval.

Text: Geometry (McDougal Littell), (Larson, Boswell, Stiff)

Credits: 1

Grades: 9 - 12

Prerequisite: See AP/Honors Addendum

Special Requirement: Students will need a graphing calculator for this course. The TI-84 Graphing Calculators highly recommended, because the TI-84 will be used for all other classes up to and including Algebra II. TI-84's will be available for sale on campus but can be purchased at a lower price in North America.

Algebra II

This course follows Geometry and precedes College Algebra or Pre-Calculus. The contents integrate geometry, discrete mathematics and statistics along with algebra. Topics include: Equations and Inequalities, Linear functions, Systems, Matrices and Determinants, Quadratics, Polynomial Functions, Powers, Roots, Radicals, Exponential and Logarithmic Functions, Rational Functions, and Trigonometric Ratios and Functions. This course may serve as the students' 'final' math course or may lead to the more advanced courses.

Text: Algebra 2 (Larson, Boswell, Stiff)

Credits: 1

Grades: 10 - 12

Prerequisite: Algebra I and Geometry

Special Requirement: Students will need a graphing calculator for this course. The TI-84 Graphing Calculators highly recommended, because the TI-84 will be used for all other classes up to and including Algebra II. TI-84's will be available for sale on campus but can be purchased at a lower price in North America.

Honors Algebra II

This course is intended for strong math students. Topics are taught at a fast pace and at a high level of difficulty. Algebra II serves as a natural extension of topics covered in Algebra I. The content and pace of the course are rigorous and require students to develop higher order thinking skills in preparation for Honors Precalculus mathematics. Topics include polynomial and rational expressions, systems of equations and inequalities, functions, matrices, radicals, irrational numbers, complex numbers, conic sections, quadratic systems, exponential and logarithmic functions, curve fitting, trigonometry including identities, and series and sequences.

Text: Algebra 2 (Larson, Boswell, Stiff)

Credits: 1

Grades: 10 - 12

Prerequisite: See AP/Honors Addendum

Special Requirement: Students will need a graphing calculator for this course. The TI-84 Graphing Calculators highly recommended, because the TI-84 will be used for all other classes up to and including Algebra II. TI-84's will be available for sale on campus but can be purchased at a lower price in North America.

College Algebra

This course is designed as a review of topics introduced in Algebra II with further topics covered in a college level Algebra course. It is primarily useful for students not ready to take Precalculus or Calculus at this time or not entering a math/science field at university. Topics could include Equations, Inequalities, Functions and Graphs, Polynomial and Rational Functions and Conics, Exponential and Logarithmic Functions, Systems, Matrices and Determinants, and Sequences, Series and Probability.

Text: College Algebra, seventh edition, 2007 by Larson and Hostetler

Credits: 1

Grades: 11 - 12

Prerequisite: Algebra II

Pre-Calculus

Pre-Calculus is an advanced high-school math course intended for those students who are preparing for AB Calculus or university-level Calculus. Students are expected to begin the course with an understanding of linear and quadratic functions, factoring, equation solving, basic properties of exponents and logarithms, and basic graphing of functions. The course focuses heavily on three topics. First, the students will investigate graphing transformations and important properties of functions including domain, asymptotes, and symmetry. Second, the students will create understanding of trigonometry, including the unit circle, SOHCAHTOA, identities, verifications, and solving trig equations. Finally, the students will prepare for AB Calculus by investigating the concepts of derivatives, limits, and instantaneous rates of change.

Text: Precalculus with Limits, A Graphing Approach (Larsin, Hostetler and Edwards)

Credits: 1

Grades: 11 -12

Prerequisite: C+ or better in Algebra II

Special Requirement: Students will need a graphing calculator for this course. The TI-89 Graphing Calculators highly recommended, because the TI-89 will be used for all other classes up to and including Calculus. TI-89's will be available for sale on campus but can be purchased at a lower price in North America.

Pre-Calculus Honors

Pre-Calculus Honors is an advanced high-school math course intended for those students who are preparing for BC Calculus or university-level Calculus. Students are expected to begin the course with an understanding of linear and quadratic functions, factoring, equation solving, basic properties of exponents and logarithms, matrices and linear systems and basic graphing of functions. The course focuses heavily on four main topics. First, the students will investigate graphing transformations and important properties of functions (linear, polynomial, rational, exponential, and logarithmic) including domain, range, asymptotes, symmetry, end –behavior and limits. Second, the students will develop a deep understanding of trigonometry, including the unit circle, SOHCAHTOA, identities, inverses, verifications, solving trig equations and applying these techniques to everyday applications. The Law of Sines and Law of Cosines and vectors will also be included. Next, arithmetic and geometric sequences and series will be investigated including some probability principles. At the end of the year, topics in Analytical Geometry including all conics will be examined including the study of parametric equations, polar equations and graphing. If time permits, additional work on limits could be explored.

Text: Pre-calculus with Limits, a Graphing Approach, 2005. (Larson, Hostetler, and Edwards)

Credits: 1

Grades: 11 - 12

Prerequisites: See AP/Honors Addendum

Special Requirement: Students will need a graphing calculator for this course. The TI-89 Graphing Calculators highly recommended, because the TI-89 will be used for all other classes up to and including Calculus. TI-89's will be available for sale on campus but can be purchased at a lower price in North America.

Calculus

This is a one-year course that will cover the same topics as AP Calculus but with a slower pace and a less rigorous schedule. The textbook will be the same as AP Calculus. Some chapter coverage may be different. The approach will be more practical and less theoretical. This is an excellent choice for non math-science majors.

Text: Calculus of a Single Variable, (Houghton Mufflin, Larsin, Hostetler and Edwards)

Credits: 1

Grade: 12

Prerequisite: Pre-Calculus

Special Requirement: Students will need a graphing calculator for this course. The TI-89 Graphing Calculators highly recommended, because the TI-89 will be used for all other classes up to and including Calculus. TI-89's will be available for sale on campus but can be purchased at a lower price in North America.

Advanced Placement Calculus AB

Calculus is the study of algebraic, trigonometric and logarithmic functions and their derivatives; the introduction to and development of limits and their properties; the applications to maximum and minimum values of the functions; the introduction to and development of the basic integration formulas, and rules for the functions. Studies also include inverse functions, exponential and trigonometric functions, the development of areas and volume of solids revolving around an axis, and the refinement of all integration techniques. This course will prepare students to take the College Board AP Calculus AB examination.

Text: Calculus of a Single Variable, (Houghton Mufflin, Larsin, Hostetler and Edwards)

Credits: 1

Grade: 12

Prerequisite: See AP/Honors Addendum

Special Requirement: Students will need a graphing calculator for this course. The TI-89 Graphing Calculators highly recommended, because the TI-89 will be used for all other classes up to and including Calculus. TI-89's will be available for sale on campus but can be purchased at a lower price in North America.

Advanced Placement Calculus BC

AP Calculus BC is an extremely advanced high school math course intended to mirror *2 semesters of university-level calculus*. This course is strictly designed for only the most capable and motivated student. Learning is fast-paced, rigorous, and thorough. Students are expected to begin the course with a fluid understanding of functions and their graphs, trigonometry, exponents and logarithms, sequences and series, and parametric and polar coordinates.

The course consists of 8 major exams and 16 minor quizzes. Students will finish the AB-level topics by the end of the 1st semester. The first-semester final exam will be an AB-style mock exam. The students will spend the third quarter exploring polar coordinate-calculus and Taylor series representations. There will be a third-quarter mock BC exam that will count for 20% of the second semester grade.

Topics specific to the BC course include *integration by parts and partial fractions, improper integrals, the calculus of parametric, polar and vector coordinates, and Taylor series representation*. For course descriptions, please see <http://apcentral.collegeboard.com/apc/public/courses/index.html> for both AB and BC Calculus.

Text: Calculus of a Single Variable, (Houghton Mufflin, Larsin, Hostetler and Edwards)

Credits: 1

Grades: 12

Prerequisite: See AP/Honors Addendum

Special Requirement: Students will need a graphing calculator for this course. The TI-89 Graphing Calculators highly recommended, because the TI-89 will be used for all other classes up to and including Calculus. TI-89's will be available for sale on campus but can be purchased at a lower price in North America.

Introduction to Probability and Statistics

This is a practical course which studies the probability of events that occur in our world. Concepts include: experimental and theoretical probabilities, counting techniques including trees, combinations, permutations, area probabilities, odds, adjusting for fairness, conditional probabilities, expected outcome, probability density, games, risk versus reward, deal or no deal, false positive/ false negative medical testing, superstition. The texts and materials used in this course are written in a narrative format with case studies rather than the typical outline structure of required math courses. Students will be required to do more reading, analyzing, and discovery than a typical math course. This one-semester math elective will introduce methods of collecting, organizing, analyzing, and interpreting information from numerical data. Statistics is used widely in politics, medicine, sociology, education, business, and in life and physical sciences.

Textbooks: The Pleasures of Probability - Richard Isaac, Understanding Probability - Henk Tijms, Elementary Statistics, 3rd Ed. – Larson

Credits: .5

Grades: 10 - 12

Prerequisite: Algebra II or concurrently with Algebra II

Special Requirement: Students will need a graphing calculator for this course. The TI-84 Graphing Calculators highly recommended, because the TI-84 will be used for all other classes up to and including Algebra II. TI-84's will be available for sale on campus but can be purchased at a lower price in North America.

Advanced Placement Statistics

This course is equivalent to a one semester, non-calculus based, college course in statistics. This university level course is typically required for majors such as social sciences, health sciences, and business, etc. This course will also serve as preparation for engineering and mathematics students and other technical majors. The topics for AP Statistics are divided into four major themes: exploratory analysis, planning and conducting a survey, probability, and statistical inference.

Text: Elementary Statistics - Picturing the World, 3rd Ed., Larson, 2006

Credits: 1

Grades: 11 - 12

Prerequisite: See AP/Honors Addendum

Special Requirement: Students will need a graphing calculator for this course. The TI-89 Graphing Calculators highly recommended, because the TI-89 will be used for all other classes up to and including Calculus. TI-89's will be available for sale on campus but can be purchased at a lower price in North America.

PHYSICAL EDUCATION AND HEALTH

General Physical Education

This required course is a general Physical Education activity course in which students will learn skills in the following categories: invasion games (e.g., soccer, basketball), net sports (e.g., volleyball), racket sports (e.g., badminton, table tennis), weight training and other team and individual sports. Students will maintain/improve fitness throughout the year. *Boys' and girls' sections will be offered.*

Text: N/A

Credits: .5 *Must take 1 full credit of General Physical Education*

Grades: 9-10

Prerequisite: None

Health

This required course explores selected topics on mental wellness, family dynamics, nutrition and sexual reproduction in a lecture/discussion forum. Students study the negative effects of substance abuse. Much of the course is dedicated to helping students make decisions about their own personal health issues.

Textbook: Heath: Skills of Wellness (Holt)

Credits: .5

Grade level: 9-12 *(A required course for Grade 9)*

Prerequisite: None

Team and Individual Sports

This PE course is a general physical education activity course in which students will learn skills from the following categories: invasion games, net sports, racquet sports, weight training, rock climbing, and other team and individual sports. Students will maintain/improve fitness throughout the semester. *This course is co-ed (boys and girls).*

Textbook: N/A

Credits: .5 *(May be repeated for credit)*

Grade level: 11 - 12

Prerequisite: 1 credit of General Physical Education

Dance

This PE semester course is a fundamental course in dance. Pilates exercise will be the conditioning foundation of the class. Students will be introduced to various styles of dance and music, including hip hop, musical theater, swing, line dance, ballet, folk, lyrical and others. *This course is for girls only.*

Textbook: N/A

Credits: .5 *(May be repeated for credit)*

Grade level: 10 - 12

Prerequisite: 1 credit of General Physical Education

Weight Training and Fitness

This PE option is designed to offer students an opportunity to develop an optimal personal fitness level using primarily the weight room and other facilities. Students will learn safe weight training practices, basic anatomy, and will design, implement, undertake, and evaluate a personal training program. *Boys' and girls' sections will be offered.*

Text: N/A

Credits: .5 *(May be repeated for credit)*

Grades: 11 or 12

Prerequisite: 1 credit of General Physical Education

Racquet Sports-Tennis

This PE course invites students to embrace and enjoy the life-long social, physical, and psychological benefits associated with this challenging sport. Tennis is unique in that it is a truly international game that is largely free of age, gender, and even athletic limitations. Students will learn the racquet skills, footwork, movement, rules, ethics, strategies, and court etiquette required to play high-percentage doubles and singles. They will also be introduced to the “culture of tennis” as a global spectacle that both inspires and entertains. *This course is co-ed (boys and girls).*

Text: N/A

Credits: .5 (May be repeated for credit)

Grades: 11 - 12

Prerequisite: 1 credit of General Physical Education

Recreational Leadership

This course focuses on the development of leadership and coordination skills related to recreational activities. Students will acquire the knowledge and skills required to plan, organize and implement recreational events. They will also learn how to promote the value of physical fitness, personal well-being, and personal safety to others through mentoring. The course will introduce students to college programs in recreational, leisure and fitness leadership. *This course is co-ed (boys and girls).*

Text: N/A

Credits: .5 (May be repeated for credit)

Grades: 11 - 12

Prerequisite: 1 credit of General Physical Education

Body Conditioning

This semester course is designed to expose the student to the most current methods of improving and maintaining fitness for a lifetime. Students will keep a fitness journal as they explore plyometrics, BOSU balance training, medicine balls, boot camp, stability ball training, kickboxing, power yoga, step and many others. Students will learn to maximize the efficiency of their body by increasing their level of cardiovascular fitness and achieving personal fitness goals, including strength and flexibility. *This course is co-ed (boys and girls).*

Text: N/A

Credits: .5 (May be repeated for credit)

Grades: 10 - 12

Prerequisite: 1 credit of General Physical Education

Yoga

This semester course gives the students an opportunity to learn all about Yoga. Yoga joins the mind, body, and breath and working them together helps students build peace of mind as well as strength in the body. This is a participation course concentrating on correct alignment of the body through the asanas or postures. Through active participation, students will see increased flexibility and strength as well as reduced stress. *Boys' and girls' sections will be offered.*

Text: N/A

Credits: .5 (May be repeated for credit)

Grades: 10 - 12

Prerequisite: 1 credit of General Physical Education

SCIENCE

Science Sequencing				
	Grade 9	Grade 10	Grade 11	Grade 12
Non-Science College Prep	Physical Science	Biology	Chemistry or Physics	Chemistry or Physics (Suggested but optional)
Non-AP/Non-Honors Track Life & Physical Science College Prep	Biology	Chemistry Biology (If not taken in 9 th grade)	Physics	Anatomy & Physiology/ Microbiology
Life-Science College Prep <ul style="list-style-type: none"> • Medicine • Biology 	Biology Honors	Chemistry Honors Biology Honors (If not taken in 9 th grade)	Physics AND/ OR AP Biology	AP Biology AND/ OR AP Chemistry
Physical Science College Prep <ul style="list-style-type: none"> • Engineering • Chemistry • Physics 	Biology Honors	Chemistry Honors	Physics AND/ OR AP Chemistry	AP Physics AND/ OR AP Chemistry (preferable to do AP Chemistry in grade 11)

Physical Science

This course developed for grade nine students will provide an introduction to working in a high school laboratory, and a solid base to help students succeed in later high school science courses. The use of varied equipment, opportunities to explore and discover concepts of science, and the study of required safety procedures are an integral part of the course. Introductory topics from physics and chemistry will be covered and algebra will be used to describe observations of nature, mathematically. Concepts include measurement, force, energy, and the structure and interaction of matter.

Text: Physical Science (Glencoe)

Credits: 1

Grades: 9

Prerequisite: Concurrent or past enrollment in Algebra I

Biology

This full-year course focuses on the basics of the cell as well as cellular processes such as photosynthesis, respiration and cell division. A large portion of the curriculum focuses on genetics, ranging from basic inheritance to genetic engineering. The course finishes with evolution, ecology, and the five kingdoms.

Text: Biology (Holt)

Credits: 1

Grades: 9 - 10

Prerequisite: None

Honors Biology

This full-year honors level course is available for students that will study the same content in greater depth and detail than the regular level course. Lab work is a priority in honors biology.

Text: Biology (Holt)

Credits: 1

Grades: 9 - 10

Prerequisite: See AP/Honors Addendum

Chemistry

This course includes concepts that form a basis for high school chemistry, namely atomic theory, bonding, reactions, stoichiometry, energy, gas laws, solutions and acid-base chemistry. Emphasis is placed on the development of strong problem-solving skills. Integrated laboratory experiments are designed to develop a wide range of lab skill, and to reinforce chemical concepts.

Text: Basic Chemistry (Timbelake)

Credits: 1

Grades: 10 - 12

Prerequisite: Concurrent/past enrollment in Algebra II.

Honors Chemistry

This honors level course is available for students that will study the same content during the first semester, and second semester will include all regular content plus the basics of kinetics and equilibrium. The honors level will include greater depth and detail than the regular level course.

Text: Chemistry: Matter and Change (Glencoe)

Credits: 1

Grades: 10 – 12

Prerequisite: See AP/Honors Addendum

Physics

The physics program is designed to produce competence in experimental skills, observation, and understanding of physical phenomena and the ability to put observation and analysis into mathematical terms. This course will provide an introduction to the physical laws fundamental to all sciences, namely motion, force, gravity, momentum, work, energy, wave motion, sound, light, electricity, and magnetism.

Text: Physics Principals and Problems

Credits: 1

Grades: 11 - 12

Prerequisite: Concurrent/past enrollment in Algebra II

Advanced Placement Biology

The AP Biology course is designed to be the equivalent of a college introductory biology course and is, therefore, quite demanding. The topics reflect those covered in college biology courses - Cells and Subcellular Processes, Genetics, Biochemistry, Human Biology, Ecology and Evolution, and a Survey of Living Organisms. Freshman college level laboratory work supplements the material being learned. The AP exam is external and takes place in May.

Text: Biology, 7th Edition, (Campbell and Reece)

Credits: 1

Grades: 11 - 12

Prerequisite: See AP/Honors Addendum

Advanced Placement Chemistry

Advanced Placement Chemistry is designed to prepare students for the AP Chemistry exam. Topics are similar to chemistry, but each is examined in more depth and breadth. Emphasis is placed on equilibrium and structure and bonding. The course is equivalent to a general college chemistry class. Strong problem solving skills using Algebra II are required. Laboratory skills are emphasized. **Chemistry Lab is required as concurrent enrollment.**

Text: Chemistry and Chemical Reactivity (Kotz, Treichel and Weaver)

Credits: 1

Grades: 11 - 12

Prerequisite: See AP/Honors Addendum

Advanced Placement Physics

This is a college-level physics class designed to produce competence in experimental skills, observation, and understanding of physical phenomena and the ability to put observation and analysis into mathematical terms. The student will be able to recognize and distinguish situations occurring in gravitational, electrical, magnetic, and nuclear fields, express matter either as a wave or a particle, express observations, analysis, and conclusions in an acceptable laboratory report format, appreciate how the principles of physics touches daily life. The successful student will be able to pass the B-level Advanced Placement physics examination.

Text: Physics (Serway and Faughn)

Credits: 1

Grades: 11 - 12

Prerequisite: See AP/Honors Addendum

Anatomy and Physiology

This semester long course provides in-depth study of the human body systems. Anatomy and physiology is geared toward science-oriented students with an interest in biological science and medicine. Students who have taken AP Biology would already have covered much of the material in this course.

Text: Essential of Human Anatomy and Physiology (Elaine N. Marieb)

Credits: .5

Grades: 11 - 12

Prerequisite: Biology (This course is **not** for students with past or concurrent enrollment in AP Biology.)

Microbiology

Microbiology is a course designed to introduce health careers students to the fundamental concepts of microbiology. Course activities consist of lecture sessions which present the course material, and laboratory exercises to demonstrate the concepts that are discussed in class. A class overview includes laboratory instructions, microscopy, morphology of microbial cells, culture media preparation, pure culture techniques, and bacteriological analysis of drinking water.

Text: None

Credits: .5

Grade level: 11-12

Prerequisite: Biology

SOCIAL STUDIES

Ancient World History

This is a required full year course. Ancient World History provides an analysis of the social, political, economic and cultural history of the world from pre-history through the Renaissance. Students learn how history is sculpted over time by people, resources, conflicts, wars, governments, religions, migration, immigration, science and technology. Topics include: River Valley Civilizations, Greece and Rome, Arabic and Islamic Studies, Medieval Europe, the Renaissance, and the Age of Enlightenment.

Text: Ancient World History: Patterns of Interaction (McDougal Littell)

Credits: 1

Grade: 9

Prerequisite: None

Modern World History

Modern World History is a year-long 10th grade course that provides an analysis of the social, political, economic, and cultural history of the world from the Age of Enlightenment to the present day. Students learn how people, recourses, conflicts, wars, governments, religions, migration, immigration, science, and technology have sculpted history over time. Major themes in this course include: Enlightenment/Absolutism, Revolutions, Industrialization, Nation States, Imperialism, World War I, Between the Wars, World War II, Decolonization, and the Cold War. Study skills and critical thinking will be incorporated throughout the program.

Text: Modern World History: Patterns of Interaction (McDougal Littell)

Credits: 1

Grade: 10

Prerequisite: None

Modern World History Honors

The Modern World History Honors course is a rigorous class structured after the AP model. Thus, students will be exposed to Document Based Questions and taught how to analyze, and respond to primary and secondary historical documents as found in many AP history courses. This is a year-long 10th grade course that provides an analysis of the social, political, economic, and cultural history of the world from the Age of Enlightenment to the present day. Students learn how people, recourses, conflicts, wars, governments, religions, migration, immigration, science, and technology have sculpted history over time. Major themes in this course include: Enlightenment/Absolutism, Revolutions, Industrialization, Nation States, Imperialism, World War I, Between the Wars, World War II, Decolonization, and the Cold War.

Text: Modern World History: Patterns of Interaction (McDougal Littell)

Credits: 1

Grade: 10

Prerequisite: See AP/Honors Addendum

US History

This is a required full-year course. U.S. History provides a broad analysis of the social, political, economic, and cultural evolution of the United States from the [post-Civil War] Reconstruction Era to the present. Special emphasis is placed on the 20th century. Students learn how American history is sculpted by people, resources, conflicts, wars, governments, religions, migration, immigration, science, and technology. Topics include: America's geographic development, the shift from isolationism to internationalism, the role and scope of government, economic Boom Bust and Recovery, totalitarianism and World Wars I & II, communism and the Cold War, as well as the modern ideological confrontation between American style liberalism and conservatism.

Text: The American Anthem (Holt)

Credit: 1

Grade: 11

Prerequisite: None

Advanced Placement US History

This is a full-year introductory college level course on United States history on the period from the first European explorations of the Americas to the present. Material covered includes: political institutions and behavior, public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. This course will prepare students to take the College Board AP US History examination.

Text: The American Pageant (Houghton Mifflin)

Credit: 1

Grade: 11 – 12

Prerequisite: See AP/Honors Addendum

American Government

This semester class in American Government teaches seniors how the U.S. governmental and political systems operate—particularly in comparison with other forms of democratic political economy. Students examine fundamental questions such as: What is government? Is government necessary? What makes a government a good government? The course includes an examination of the U.S. Constitution, the underlying principles of democracy and the development of political institutions in the United States. Since democratic government is the arena where social, economic and political conflicts are resolved via ballots rather than bullets, the competing combatants—political parties and personalities, interest groups and other stakeholders—receive scrutiny as well.

Students intending to attend college in the USA are **strongly recommended** to take American Government.

Text: Magruder's American Government, 2001 (Prentice Hall)

Credits: .5

Grade: 12

Prerequisite: 12th grade status

Economics

This semester class in economics is designed to give students a basic understanding of how people resolve the fundamental economic problems of unlimited wants and limited resources. Following a brief unit introducing economic thinking, students explore microeconomic concepts related to the actions of individual household, business firms and government. Students then move to the study of macroeconomic behavior including comparative economic stability, output, the role and creation of money, and international trade and finances. Comparative economic systems are also studied throughout the course.

Text: Economics: Principles in Actions (O'Sullivan/Sheffrin)

Credit: .5

Grade: 10-12

Prerequisite: None

Advanced Placement Economics

This is a full year introductory college level course in both Micro and Macro Economics. Students will be engaged in evaluating and processing Micro economics concepts related to the action of individual households, business firms and government. Students then move to a study of Macro economics behavior including economic stability, output the role and creation of money in international trade and finances. This course will prepare students to take the College Board Micro & Macro Economics exam.

Text: Micro Economics/Macro Economics Principles and Policies

Credit: 1

Grade level: 11 – 12

Prerequisite: See AP/Honors Addendum

Advanced Placement World History

Although the dispersal of early humans to every livable environment resulted in a myriad of different economic, social, political, and cultural systems, all societies displayed analogous patterns of meeting their needs and exploiting their environments. This year long college level course designed for 11th and 12th grade students, considers these patterns through the themes of “technology and environment” and “diversity and dominance”. All technological development has come about through interaction with environments, both physical and human, and has, in turn, affected those environments. Yet technology and the environment do not explain or underlie all-important episodes of human experience. The theme of “diversity and dominance” will frame our conversations concerning politics, culture and society. Through these two lenses we will explore the whole of recorded human history and seek out the previously mentioned analogous patterns by concerning ourselves with the studies of imperial institutions as well as the pastoral nomads that reside on the outskirts of imperial boundaries.

Text: World Civilizations (Pearson Longman)

Credits: 1

Grades: 11 – 12

Prerequisite: See AP/Honors Addendum

Global Issues

Since this one semester elective is both defined and driven by crucial events of the day—many of which are almost impossible to predict—it demands a genuine interest in current affairs and world politics. It also requires an eager and timely analysis of controversial international news stories. Included in this intensively audio-visual and discussion oriented course are an examination of “globalization” as a unifying theme, an analysis of competing systems of political economy, international security concerns, as well as current economic, social and political issues related to global trends.

Text: International Politics on the World Stage, (Dushkin/McGraw-Hill, 1999)

Credit: .5

Grades: 11 – 12

Prerequisites: None

Philosophy

This semester long course will cover both ancient and modern schools of philosophical thought, with particular attention to how philosophy has influenced politics, art and society throughout history. Working within a seminar format, students will be expected to participate in discussions and devote considerable time to reading and interpreting difficult texts. The focus of study will be the central questions of existence, which man has pondered through the ages.

Text: Questions that Matter (McGraw Hill)

Credits: .5

Grades: 11 - 12

Prerequisite: None

Introduction to Psychology

This is a semester long course which provides a survey overview of major psychological theories and thinkers who have shaped modern thought about the workings of the mind and human behavior. Students will also examine current trends in psychology and neuro-psychology as well as different theories of cognitive, emotional, moral, and social development. Students can expect challenging reading assignments and at least one major presentation during the course of the semester.

Text: Psychology: Principles in Practice (Holt, Rhinehart and Winston)

Credits: .5

Grades: 11 - 12

Prerequisite: None

Advanced Placement Psychology

This is a one-year course offered to qualified students and equivalent to an introductory college course in psychology. This course is designed to introduce students to the systematic and scientific study of the behavioral and mental processes of human beings and other animals. Through it, students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. Students can expect challenging reading assignments, the writing of well thought-out essays and research papers, and at least two major presentations during the course of the year.

Text: Open

Credit: 1

Grade: 12

Prerequisite: See AP/Honors Addendum

Regional Geography

This semester course is an overview of the five themes of geography (location, place, human-environmental interactions, regions and movement) as related to countries around the world. Geographers use these five themes, or ideas, to organize and guide their studies. The class will examine the geography of human groups in diverse settings. The focus of each unit will include the following areas: human population patterns and cultural diffusion, human and environmental forces shaping regional patterns, agricultural, political, and economic geography. The course is designed to give the student a working geographical background.

Textbook: World Geography Today (Holt 2008)

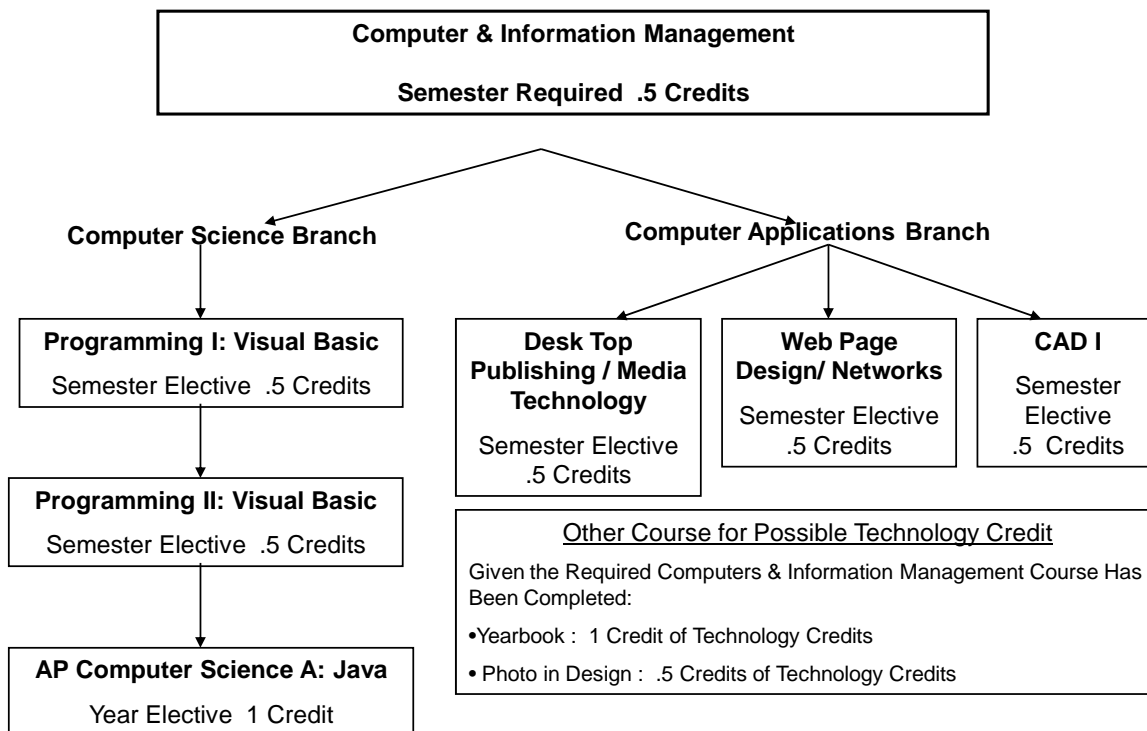
Credits: .5

Grades: 11 - 12

Prerequisite: None

TECHNOLOGY

Technology – Course Flow Chart – Dhahran High School Graduation Requirements: 1.5 Credits



Introductory Course:

Computers & Information Management

This is a **REQUIRED** introductory semester course which focuses on managing information through in-depth studies of spreadsheets and database software features. This class focuses on developing proper keyboarding techniques including form, speed, and accuracy. Along with keyboarding, the class will begin with an overview of the Windows operating system. Students will look at the Internet and the social and ethical implications of computing. Microsoft Office Suite software will be the software used in this class. An in-depth study of online learning, through Nesa Blackboard.

Text: A Guide to Microsoft Office 2007 Professional, Lawrenceville Press

Credits: .5

Grades: 9 – 10 (9th grade preferred)

Prerequisite: None

Computer Applications Focus:

Desk Top Publishing/Media Technology

This semester long course will provide students with the knowledge to develop technical and critical thinking skills necessary to understand and create effective communications. While developing basic media literacy skills that will make them aware of how media affects societies and individuals, students will create media projects such as brochures, slide shows, manuals, and advertisements. They will possibly delve into other electronic media to meet the needs of the high school.

Students will explore different design options for layout in print and electronic presentation while developing their abilities to match their choice of software with their audience, purpose, and content. Our primary tools will be computers, printers, scanners, digital cameras and projectors along with software such as Microsoft Publisher and Microsoft Movie Maker. Inevitably, the dynamics of this class will change in response to the evolving world of media technology.

Text: None

Credits: .5

Grades: 10 - 12

Prerequisite: Computers and Information Management

Web Page Design/Networks

This semester long course seeks to balance classroom activities and academic training with practical experience. Students will explore web design applications and basic network concepts. They will work on individual and group projects like creating web pages for the school's Intranet, maintaining the school's web site for the Internet and fulfilling other various network media needs of the Dhahran High School. Students will utilize web page design programs such as Microsoft Front Page, Microsoft Web Expression and Macromedia Dreamweaver. They may use additional programs such as word processing, photo-imaging or graphic enhancement to add to their websites.

Text: None

Credits: .5

Grades: 10 - 12

Prerequisite: Computers and Information Management

Computer Aided Design

This semester elective course is an introduction to the implementation of computer graphics and drafting skills in general. Two dimensional (2D) will cover different applications in monochrome patterns, control and mix of colors, graphics and layout, and scanning.

Three dimensional (3D) addresses computer software for architectural drafting, with its application in drafting of plans, sections, elevations, and details as well as applications in 3D modeling.

Students are provided with digital tools for drafting and project management that can be applied in design courses. Architectural, engineering, and interior design majors will benefit from participation in this course.

Text: No Text; Software is AutoCAD Version 16

Credits: .5

Grades: 11 - 12

Prerequisite: Computers and Information Management

Photo In Design

This one semester course will introduce the students to editing digital photos, create professional publishing documents. Through this course the students will learn the basic Photoshop tools. Designing publishing documents using InDesign; such as books, brochures and newsletter. This is an interactive course where students are asked to take pictures, edit them, and then use them to design a publishing document. By the end of the semester the students get to visit a publisher and print their documents.

Text: None

Credits: .5 (May count for technology or elective credit)

Grade: 10 - 12

Prerequisite: Computers and Information Management

Computer Science Focus:

Programming I

This semester-long course is an introduction to structured programming through Visual Basic. Students will learn how to write application programs while developing a fundamental understanding of a structured approach to problem solving through programming. In addition to learning the Integrated Development Environment of Microsoft Visual Basic software, students will learn the syntax of the language and good programming style. The class will cover variables, constants, decision and looping structures, procedures and functions. The specific programming skills introduced are transferable between different languages and systems.

Text: A Guide to Microsoft Visual Basic 2008, Lawrenceville Press

Credits: .5

Grades: 10 - 12

Prerequisite: *Computers and Information Management and Algebra II, or taking concurrently*

Programming II

In this semester-long course students will continue to develop their structured programming skills using Visual Basic. In addition, students in this class may work together to complete a major class project using a team-oriented approach. Application programs will necessarily require more in-depth development through studies of arrays, sequential and random access files, classes, sorting and searching, menus, dialogs and multiple forms. Instruction may also cover integrating program applications with other applications as well as graphics, color and sound.

Text: A Guide to Microsoft Visual Basic 2008, Lawrenceville Press

Credits: .5

Grades: 10 - 12

Prerequisite: *Programming I: Visual Basic and Computer and Information Management*

Advanced Placement Computer Science A: Java

This year-long course will prepare students for the AP Computer Science A exam using Java. AP Computer Science emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. This class also emphasizes the design issues that make programs understandable, adaptable and reusable and the study of abstraction and data structures. In addition, an understanding of basic hardware and software components of computer systems and the responsible use of these systems are parts of this course.

Students should have a strong foundation of mathematical reasoning and should be comfortable with functions and the concepts often found in the uses of function notation.

Text: A Guide to Programming in Java, Lawrenceville Press

Credits: 1

Grades: 11 - 12

Prerequisite: *See AP/Honors Addendum*

MINISTRY OF EDUCATION REQUIREMENT

Arabic Culture *Ministry of Education Requirement*

Arabic Culture is a **required** Ministry of Education course. Students are introduced to the Arab world in general and the Saudi world in particular. Students will learn about Kingdom of Saudi Arabia history, geography, culture and customs and basic Arabic conversational phrases through videos, textbooks and other supplementary activities. Students are required to take this course one semester every year enrolled at DHS. Students enrolled in an Arabic Global Language course are exempt from this course.

Text: N/A

Credits: .5 (To be repeated for credit each year for 1 Semester)

Grades: 9 - 12

Prerequisite: None

ADDITIONAL ELECTIVES

Accounting I & II

This course is recommended for students who are interested in a career in business. It introduces the students to the practices, terms and methods of accounting bookkeeping. Following, students will apply the basic accounting cycle to a merchandizing business. This course provides a strong foundation in basic accounting theory and procedures and provides a general understanding of how to use the computer to perform various accounting activities.

Text: Accounting: Concepts/Procedures/Applications

Credits: 1

Grade level: 10-12

Prerequisite: None

Creative Writing

Creative writing is designed to aid students in their creative expression, as well as delivery of one's writing. Students will read and discuss articles on the craft of writing. The first quarter will focus on fiction. Students will read and evaluate the effectiveness of fiction of varying styles. They will write and workshop short stories to complete a final portfolio. The second quarter will focus on poetry. Students will learn poetic vocabulary, read and interpret poems of varying styles. Students will write and workshop each other's poetry to complete a final portfolio at the end of the quarter. Students will be expected to deliver their writing to an audience.

Text: None

Credits: .5 (Elective Credit)

Grade: 10-12

Pre-Requisites: None

International Finance

This semester course provides an overview of the importance of International business and trade in the global economy and explores the factors that influence success in international markets in relation to the currency exchange rate effects. Students will learn about the techniques and strategies of financial market trading operations and analyze bonds and stocks performances. This course is recommended for students seeking postsecondary programs in business.

Text Book: International Business

Credit: .5

Grade level: 12

Prerequisite: Economics or Introduction to Business

Introduction to Business

This semester course is a glance at what the business world is like. Topics covered will include economics, organization structure, business ownerships and management, Marketing, Consumer behavior, budgeting and personal finances. Business discussions will focus on US business practices. This class is recommended for students interested in pursuing a career in business.

Text: Introduction to Business: Our Business and Economic World

Credits: .5

Grade level: 10 – 12

Prerequisite: None

Journalism

This semester-long elective provides an introduction to news reporting, and covers the gathering and reporting of news that is relevant to high school students. All students in the class are responsible for writing, editing, and ultimately producing a publication. Additionally, students analyze issues related to the rights and responsibilities of the press.

Text: None

Credits: .5 (Elective Credit – may be taken for repeat credit)

Grade: 10 - 12

Pre-Requisites: None

Literature in Film

Like cinema? Ever wonder what that film was *really* getting at? Have you heard the saying, "Oh, the *book* was much better than the movie"? In this junior/senior elective, students will have the opportunity to gain additional English or Visual Arts units through the exploration of literary themes, works, and symbol as presented in film. The cinematic material for this one semester class will be age-appropriate dramatic presentations reflecting positive human values as seen in various works of literature. Viewing, discussion, and writing will be expected components of the course.

Text: None

Credits: .5 (Elective Credit)

Grade Level: 11 - 12

Pre-Requisites: None

Speech

This semester-long elective offers a progressive building of confidence in public speaking through learning techniques of delivery, preparation, and much practical experience. Activities include numerous speaking situations, from panel discussions to informative and persuasive speeches.

Text: None

Credits: .5 (Elective Credit)

Grade level: 10 - 12

Pre-Requisites: None

Yearbook

This year long elective course is a hands-on practical experience class in which students design, lay out, and produce the yearbook. Computers are used extensively in constructing the yearbook layout. Students will learn to use Adobe Illustrator, Adobe PageMaker, and Adobe Photoshop.

Text: N/A

Credits: 1 (May count for technology or elective credit)

Grade level: 11 – 12 (May repeat for credit)

Prerequisite: Permission of Instructor

ADDENDUM
ADVANCED PLACEMENT AND HONORS PREREQUISITES
2010-2011 School Year

ENGLISH: *English 10 Honors*

- 87% or higher in Grade 9 English
- Teacher recommendation

ENGLISH: *Advanced Placement Language and Composition*

- 93% or higher in regular English or 87% or higher in English Honors
- Teacher recommendation

ENGLISH: *Advanced Placement Literature and Composition*

- 3 or higher on AP Language and Composition Exam
- 87% or higher in regular English
- Familiarity with the skills of literary analysis
- Familiarity with the nature and effects of literary techniques
- Tested experience in abstract thinking
- Successful completion of summer project by the first day of school
- Teacher recommendation

FINE ARTS: *Honors Art*

- Two Studio Art classes
- Teacher recommendation

GLOBAL LANGUAGES: *Advanced Placement French Language*

- 83% or higher in French IV or equivalent native fluency
- Teacher recommendation

GLOBAL LANGUAGES: *Advanced Placement Spanish Language*

- Minimum 3 years of Spanish
- Teacher Recommendation

MATHEMATICS: *Honors Geometry*

- 85% or higher in Algebra I
- Teacher recommendation

MATHEMATICS: *Honors Algebra II*

- 85% or higher in Algebra I
- 85% or higher in Geometry
- This course may be taken concurrently with Honors Geometry
- Teacher recommendation

MATHEMATICS: *Pre-Calculus Honors*

- 80% or higher in Algebra II Honors
- Teacher recommendation

MATHEMATICS: *Advanced Placement Calculus AB*

- 80% or higher in Pre-Calculus
- Teacher recommendation

MATHEMATICS: *Advanced Placement Calculus BC*

- 80% or higher in Honors Pre-Calculus
- Teacher recommendation
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MATHEMATICS: *Advanced Placement Statistics*

- 80% or higher in Algebra II
- Introduction to Probability and Statistics
- Teacher recommendation

ADDENDUM (Continued)
ADVANCED PLACEMENT AND HONORS PREREQUISITES
2010-2011 School Year

SCIENCE: Honors Biology

- Students are admitted into honors level based on science department approval.
- The science department will consider prior school performance with particular attention to prior honors and science courses.
- Standardized testing scores will be considered with a focus on critical thinking and reading scores (scores should be 85% or above).

SCIENCE: Honors Chemistry

- Concurrent/past enrollment in Algebra II
- Students are admitted into honors level based on science department approval.
- The science department will consider prior school performance with particular attention to prior honors, science and math courses.
- Standardized testing scores will be considered with a focus on critical-thinking and math scores (scores should be 85% or above).

SCIENCE: Advanced Placement Biology

- All prior mathematics grades should be 83% or higher if in honors track; 93% or higher if regular track.
- Prior Biology Honors 93% or higher
- Prior Biology Honors 83% or higher with teacher recommendation
- Prior regular Biology 93% or higher with very strong teacher recommendation
- Either 87% or higher in Honors Chemistry or 93% or higher in regular Chemistry OR the student may be taking chemistry concurrently with AP Biology

SCIENCE: Advanced Placement Chemistry

- Student must be enrolled in Pre-Calculus or higher level math class concurrently while enrolled in AP Chemistry.
- All prior mathematics grades should minimally be 83% or higher if in Honors track or 93% or higher in regular track.
- Prior chemistry honors grade of 93% or higher
- Prior chemistry honors grade of 83% or higher with teacher recommendation
- Prior regular chemistry grade of 93% or higher with very strong teacher recommendation

SCIENCE: Advanced Placement Physics

- Students must complete or be concurrently enrolled in Pre-Calculus or higher math while taking AP Physics.
- 87% or higher in Algebra I, Geometry, and Algebra II (83% or higher if in Honors)
- 87% or higher in Physics (If straight A's in math, 87% or higher in Physics, can be replaced with Aramco Grade 9 Conceptual Physics or Integrated Science at the 9 and/or 10 grade level)

SOCIAL STUDIES: Modern World History Honors

- 93% or higher in Grade 9 social studies class
- Teacher recommendation

SOCIAL STUDIES: Advanced Placement Economics

- 87% or higher in Algebra II
- Teacher recommendation in all core courses for work ethic

SOCIAL STUDIES: Advanced Placement Psychology

- One Semester of Psychology
- 87% or higher in Social Studies
- 87% or higher in English
- Social Studies and English instructor recommendation
- Approval of instructor of Advanced Placement course
- Successful completion of summer project by first day of school

ADDENDUM (Continued)
ADVANCED PLACEMENT AND HONORS PREREQUISITES
2010-2011 School Year

SOCIAL STUDIES: *Advanced Placement U.S. History*

- 87% or higher in regular Social Studies; 80% or higher in Honors and AP course
- 87% or higher in regular English; 80% or higher in Honors and AP course
- Social Studies and English instructor recommendation
- Approval of instructor of Advanced Placement course
- Successful completion of summer project by first day of school

SOCIAL STUDIES: *Advanced Placement World History*

- 87% or higher in regular Social Studies; 80% or higher in Honors and AP course
- 87% or higher in regular English; 80% or higher in Honors and AP course
- Social Studies and English instructor recommendation
- Approval of instructor of Advanced Placement course
- Successful completion of summer project by first day of school

TECHNOLOGY: *Advanced Placement Computer Science A: Java*

- Programming I & II
- Teacher Recommendation