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Welcome to Dhahran High School

MISSION STATEMENT

DHAHRAN HIGH SCHOOL is an accredited, college-preparatory school in Saudi Arabia, characterized by a multi-cultural community of learners and educators. We promote the highest integrity in our students and encourage them to develop their intellectual potential through the implementation of an exceptional American curriculum. We inspire our students to become self-motivated, life-long learners. DHS achieves these goals by forming partnerships with our students and parents and by providing a rigorous curricular as well as a co-curricular program, within and beyond the classroom, implemented by professional and experienced staff.

Adopted, December 13, 2009

OUR BELIEFS

Student learning is our highest priority; therefore, we believe that:

- ❖ students deserve the right to participate in a nurturing, safe and secure environment which facilitates maximum growth.
- ❖ social, physical, intellectual, emotional and ethical growth are imperative to the development of the whole student.
- ❖ education is a shared responsibility of the home, the school, and the community.
- ❖ effective communication is crucial to a successful school environment.
- ❖ teacher-student relationships are a primary mechanism for fostering student learning.
- ❖ the recruitment, professional development, and retention of excellent employees are vital to our success.
- ❖ teachers should employ a variety of instructional strategies to accommodate various learning styles.
- ❖ activities beyond the curriculum that foster leadership, confidence, and teamwork are essential to the development of globally-aware citizens.
- ❖ up-to-date resources, technology and facilities support quality educational programs for our students.

DHS GRADUATE PROFILE

A Graduate of Dhahran High School:

- ❖ demonstrates an understanding of major disciplines necessary for success in college.
- ❖ reads critically, listens carefully, writes effectively, and speaks confidently.
- ❖ sets and strives to achieve realistic goals while recognizing their own passions and unique gifts.
- ❖ exhibits personal integrity, principled work habits and ethical behavior.
- ❖ demonstrates effective teamwork and leadership qualities.
- ❖ applies creative, critical, and independent thinking skills in response to life's challenges.
- ❖ recognizes and respects personal and cultural differences.
- ❖ understands the importance of health and fitness to maintain a balanced lifestyle.
- ❖ acknowledges civic responsibility and participates in community service.

Adopted, February 7, 2010



USING THE DHS COURSE DESCRIPTION BOOKLET

All students are required to complete the course selection form which is available on-line. Students are reminded to choose their classes carefully. 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 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 booklet 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** 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 courses (i.e. Physical Education and Fine Arts courses) as indicated in the course description.
- **Schedule Adjustments:** The need for schedule adjustments are 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. In the case of AP classes, adjustments will be made with counselor, parent and teacher approval.
- **Honors/Advanced Placement Prerequisites:** Please refer to the Honors and Advanced Placement Addendum for more information.
- **AP Exams:** Students enrolled in an AP course are expected to take the spring AP exams. Each AP exam costs approximately 400 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 university credit. While success in AP courses is highly regarded, each university chooses whether to offer university level credit.
- **IB:** The IB Programme is a comprehensive two-year programme for grades 11 and 12. Students will complete 6 courses, a Theory of Knowledge course, Creativity Action and Service programme and an Extended Essay as part of the diploma requirements. Admission into the IB Diploma Programme is based on an application procedure. Questions may be forwarded to the IB Coordinators: erutherford@isgdh.org or elvallejo@isgdh.org

MINIMUM CREDITS REQUIRED FOR GRADUATION: 24 CREDITS

Course	Required	Recommended
English	4.0	4.0
Math	3.0	3.5
Science	3.0	4.0
Social Studies	4.0	4.0
Global Languages <i>Languages must be consecutive years of the same language.</i>	2.0	3.0
Physical Education	2.0	2.0
Fine Arts	1.0	1.0
Technology	1.0	1.0
Health	0.5	0.5
Computer and Information Management	0.5	0.5
Speech		0.5
Arabic Culture: <i>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. 0.5 credit is awarded for each semester passed. Repeated 1 semester each year.</i>		
Electives	3.0	3.0 or more

- *A semester course earns 0.5 credit with a passing grade*
- *A year-long course earns 1.0 credit with a passing grade*

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 preparing this plan. A sample plan follows:

Grade 9	Grade 10	Grade 11 <i>Or IBDP I</i>		Grade 12 <i>Or IBDP II</i>	
English 9	English 10	American Literature or AP Language & Composition	IBDP I (or Grade 11)	British Literature or AP Literature & Composition	IBDP II (or Grade 12)
(Algebra I) GEOMETRY	(Geometry) ALGEBRA II	(Algebra II) PRE-CALCULUS		CALCULUS (Pre-Calculus 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 AP Psychology	
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:** All 10th Grade Students at DHS take the PLAN during their sophomore year.
- **SAT10/OLSAT 8:** All 10th Grade Students take the Stanford Achievement Test in April.
- **PSAT:** All 10th and 11th Grade Students take the Preliminary Scholastic Aptitude Test (PSAT) in October.
- **ACT:** The American College Test (ACT) is offered twice a year 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.

SAT TEST DATES	ACT TEST DATES
October 1, 2011	October 22, 2011
December 3, 2011	December 10, 2011
May 5, 2012	
June 2, 2012	

NOTE: Students need to register on-line for the above tests 3 – 4 months prior to the test dates

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.

IELTS

IELTS is the International English Language Testing System which tests English proficiency across the globe. IELTS tests all four language skills – listening, reading, writing and speaking. The Speaking test is a face-to-face interview with a certified Examiner. IELTS is available in two test formats: Academic or General Training. All candidates take the same Listening and Speaking modules but different Reading and Writing modules. www.ielts.org

COURSE DESCRIPTIONS



COURSE DESCRIPTIONS

<p>ENGLISH</p> <ul style="list-style-type: none"> • English 9 • English 10 • English 10 Honors • American Literature • AP Language and Composition • British Literature • AP Literature and Composition 	<p>MATHEMATICS</p> <ul style="list-style-type: none"> • Algebra I • Geometry • Geometry Honors • Algebra II • Algebra II Honors • College Algebra • Pre-Calculus • Pre-Calculus Honors • AP Calculus AB • AP Calculus BC • Introduction to Probability & Statistics • AP Statistics 	<p>SOCIAL STUDIES</p> <ul style="list-style-type: none"> • Ancient World History • Modern World History • Modern World History Honors • US History • AP US History • American Government • Economics • AP Economics • AP World History • Global Issues • Philosophy • Introduction to Psychology • AP Psychology • Regional Geography
<p>FINE ARTS</p> <ul style="list-style-type: none"> • Art I • Art II • Studio Art • Art Honors • Theatre I • Theatre II • Theatre Production • Digital Photography I • Digital Photography II • Band • Choir 	<p>PHYSICAL EDUCATION AND HEALTH</p> <ul style="list-style-type: none"> • Health • General Physical Education • Team & Individual Sports • Dance • Weight Training & Fitness • Racquet Sports • Recreational Leadership • Body Conditioning • Yoga 	<p>TECHNOLOGY</p> <ul style="list-style-type: none"> • Computers and Information Management • Media Technology • Web Page Design • Photo In Design • Yearbook • Programming I • Programming II • AP Computer Science A: Java
<p>GLOBAL LANGUAGES Arabic for Non-native Speakers</p> <ul style="list-style-type: none"> • Arabic I, II & III • Arabic IV Honors <p>Arabic for Native Speakers</p> <ul style="list-style-type: none"> • Arabic A & B <p>French</p> <ul style="list-style-type: none"> • French I, II & III • French IV Honors • AP French Language 	<p>SCIENCE</p> <ul style="list-style-type: none"> • Physical Science • Biology • Biology Honors • Chemistry • Chemistry Honors • Physics • AP Biology • AP Chemistry • AP Physics • Anatomy & Physiology • Microbiology 	<p>ADDITIONAL ELECTIVES</p> <ul style="list-style-type: none"> • Accounting I & II • Creative Writing • International Finance • Introduction to Business • Journalism • Literature in Film • Speech • Yearbook
<p>Spanish</p> <ul style="list-style-type: none"> • Spanish I, II & III • Spanish IV Honors • AP Spanish Language 	<p>IB Diploma Programme</p> <ul style="list-style-type: none"> • Refer to IBDP on page 40 	<p>MINISTRY OF EDUCATION REQUIREMENT</p> <ul style="list-style-type: none"> • Arabic Culture

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: McDougall 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.

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. The range of texts to be studied is based on the AP recommended lists.

Text: Various Novels
Credits: 1
Grade Level: 12
Prerequisite: See AP/Honors Addendum

FINE ARTS

Art I

This course is designed to introduce students to the basic knowledge of various forms, techniques and medias of art. Participants will produce works of arts displaying their skills and creativity. Throughout the course they will learn and explore at least 3 to 5 different medias and their techniques. Realistic drawing with shading pencils, charcoals and pastels will also be a major part of this course. Painting will constitute secondary explorations. Examples of other projects are mosaics, wood burning, scratch art, collage, mixed medias, stained glass and ceramics.

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

Art II

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

*Credits: .5 (Course may be repeated for credit)
Grade: 9 - 12
Prerequisite: Art I*

Studio Art

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: Art II, or permission of instructor*

Art Honors

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*

Theatre I

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 delve 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. Students will also be given the opportunity to film a drama for the first time.

*Credits: .5 (Course may be repeated for credit)
Grade: 10 – 12
Prerequisite: Theater I*

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. Students will discover new artistic and script analyzing talents and skills as they will receive play preparations and behind-the-scenes training.

*Credits: .5 (Course may be repeated for credit)
Grade: 10 – 12
Prerequisite: Theater I*

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: 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.

GLOBAL LANGUAGES

Recommended minimum graduation requirement of 3 consecutive years of the same language

ARABIC FOR NON-NATIVE SPEAKERS

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) Ahlan wa sahan
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) Ahlan wa sahan
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) Ahlan wa sahan
Credits: 1
Prerequisite: Successful completion of Arabic II
Special Requirement: Students must have Arabic enabled computer system

Arabic IV Honors

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) Ahlan wa sahan
Credits: 1
Prerequisite: Successful completion of Arabic III
Special Requirement: Students must have Arabic enabled computer system

ARABIC FOR NATIVE SPEAKERS

Arabic A

This course is designed for students who studied Arabic as a native language during their early childhood and elementary school, and wish to further enhance their performance in the four aspects of the language: listening, reading, writing, and speaking.

During the course of study, students will be exposed to various resources integrating cultural “nuances” that allow students to gain a general overview of Arab heritage. Students will be able to express themselves with reasonable fluency and accuracy in both written and spoken Arabic. Works will include media resources, short stories, and excerpts of novels.

*Text: TBD
Credits: 1
Prerequisite:
Placement Test
Special Requirement:
Students must have
Arabic enabled
computer system*

Arabic B

This course is designed to students who studied Arabic as a native language during their childhood and through middle school and wish to further develop their proficiency in the language through keen listening, extensive reading, analytical writing, and debatable skills. During the course of study, students will be exposed to a wide range of resources including excerpts of literary works for famous Arab writers, authors, and poets, and integrating history whereby candidates gain a substantial overview of Arab civilization.

Students write critical argumentative essays, complete research papers, and engage in creative writing projects.

*Text: TBD
Credits: 1
Prerequisite: Arabic I
for Native Speakers
Special Requirement:
Students must have
Arabic enabled
computer system*

French Native speakers cannot select levels 1-3 for graduation requirements.

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 with a
minimum grade of C
average*

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 with a minimum grade of C average

French IV Honors

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 with a minimum grade of B average

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: AP French Language (Ellen Knauer) the Best Preparation for the AP French Language
Credits: 1
Prerequisite: Minimum 3 years of French and a Teacher Recommendation (see AP/Honors Addendum)

Spanish Native speakers cannot select levels 1-3 for graduation requirements.

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 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 with a minimum grade of C average

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 the perfecting spoken Spanish.

Text: En Espanol!
Credits: 1
Prerequisite: Successful completion of Spanish II with a minimum grade of C average

Spanish IV Honors

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 with a minimum grade of B average

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: Minimum 3 years of Spanish and a Teacher Recommendation (see AP/Honors addendum)

MATHEMATICS

MATHEMATICS SEQUENCING				
LEVEL	GRADE 9	GRADE 10	GRADE 11	GRADE 12
University-Level Preparation for GENERAL MATHEMATICS	Algebra I	Geometry	Algebra II *	College Algebra
		Algebra II * plus Geometry	College Algebra	AP Statistics
	Geometry	Algebra II *		Pre-Calculus
		Algebra II *		AP Statistics
University-Level Preparation for ADVANCED MATHEMATICS	Algebra I	Algebra II * plus Geometry	Pre-Calculus	Calculus or AB Calculus
	Geometry	Algebra II *		
	Geometry Honors	Algebra II Honors *	Pre-Calculus Honors	BC Calculus or AB Calculus

NOTES:

* AP Statistics can be taken any time after completion of Algebra II with an 85% or higher

IB Placement will be based on previous Math course history

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.

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.

Text: Algebra (Larson, Boswell, Stiff)
 Credits: 1
 Grades: 9
 Prerequisite: Math 8 or higher

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.

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.

Text: Geometry (McDougal Littell), (Larson, Boswell, Stiff)
Credits: 1
Grades: 9 - 12
Prerequisite: Algebra I

Geometry Honors

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.

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.

Text: Geometry (McDougal Littell), (Larson, Boswell, Stiff)
Credits: 1
Grades: 9 - 12
Prerequisite: See AP/Honors Addendum

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.

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.

Text: Algebra 2 (Larson, Boswell, Stiff)
Credits: 1
Grades: 10 - 12
Prerequisite: Algebra I and Geometry

Algebra II Honors

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.

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.

Text: Algebra 2
(Larson, Boswell, Stiff)
Credits: 1
Grades: 10 - 12
Prerequisite: See
AP/Honors Addendum

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.

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.

Text: Precalculus with
Limits, A Graphing
Approach (Larsin,
Hostetler and Edwards)
Credits: 1
Grades: 11 -12
Prerequisite: C+ or
better in Algebra II

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.

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.

Text: Precalculus with Limits, a Graphing Approach, 2005. (Larson, Hostetler, and Edwards)
Credits: 1
Grades: 11 - 12
Prerequisites: See AP/Honors Addendum

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.

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.

Text: Calculus of a Single Variable, (Houghton Mufflin, Larsin, Hostetler and Edwards)
Credits: 1
Grade: 12
Prerequisite: Pre-Calculus

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.

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.

Text: Calculus of a Single Variable, (Houghton Mufflin, Larsin, Hostetler and Edwards)
Credits: 1
Grade: 12
Prerequisite: See AP/Honors Addendum

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.

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.

Text: Calculus of a Single Variable, (Houghton Mufflin, Larsin, Hostetler and Edwards)
Credits: 1
Grades: 12
Prerequisite: See AP/Honors Addendum

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.

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.

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

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.

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.

Text: Elementary Statistics - Picturing the World, 3rd Ed., Larson, 2006
Credits: 1
Grades: 11 - 12
Prerequisite: See AP/Honors Addendum

PHYSICAL EDUCATION AND HEALTH

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

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

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

This PE course invites students to embrace and enjoy the life-long social, physical, and psychological benefits associated with this challenging sport. This PE course invites students to embrace and enjoy the lifelong social, physical and psychological benefits associated with Racquet sports. Students will participate in a variety of racquet sports that include, but are not limited to table tennis, tennis, badminton and pickle ball. Students will learn the value of sportsmanship as well as the importance of knowledge, skill and appreciation for an active lifestyle. 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 <i>(courses listed multiple times are identical)</i>				
	Grade 9	Grade 10	Grade 11	Grade 12
General Science <i>Recommend 1 Physical Science course in plan</i>	Physical Science or, Biology or, Conceptual Physics <i>(not at DHS)</i>	(1 or 2 of these) Biology Chemistry	Physics or, Chemistry	Anatomy & Physiology/ Microbiology or, Chemistry or, Physics
IB or AP Life Science <ul style="list-style-type: none"> • Medicine • Biology <i>Recommend 1 Physical Science course in plan</i>	Physical Science or, Biology or, Conceptual Physics <i>(not at DHS)</i>	(1 or 2 of these) Biology *Physics <i>(*see pre-requisites) Chemistry not advised</i>	IB Path (1 or 2 of these) IB Biology IB Chemistry	
	Biology Honors	Chemistry Honors Biology Honors <i>(if not taken in 9th)</i>	Physics and/or, AP Biology	AP Biology and/or, AP Chemistry
IB or AP Physical Science <ul style="list-style-type: none"> • Engineering • Chemistry • Physics 	Biology or, Biology Honors	Chemistry	IB Path IB Chemistry IB Physics	
	Conceptual Physics <i>(not at DHS)</i>	Biology		
	Conceptual Physics <i>(not at DHS)</i>	Biology Honors Chemistry Honors	Physics and/or,	AP Physics and/or, AP Chemistry <i>(preferable to do AP Chemistry in 11th grade)</i>
	Biology Honors	Chemistry Honors	AP Chemistry	

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 following topics in biology: cell biology, photosynthesis, cell respiration, genetics, molecular biology, evolution, ecology and the diversity of life. Students will learn basic laboratory skills based upon the stages of scientific investigation.

*Text: Biology (Holt)
Credits: 1
Grades: 9 - 10
Prerequisite: None*

Biology Honors

This full-year course is designed as a vertical step for a student interested in taking the Advanced Placement Biology course. Topics covered in great depth are: basic chemistry, cell biology, macromolecules, cell membrane, genetics, DNA and molecular biology, domains of life, photosynthesis, cell respiration, evolution, ecology, diversity of life, and body systems. There is an emphasis on strong laboratory skills and scientific investigation.

*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 (Timberlake)
Credits: 1
Grades: 10 - 12
Prerequisite: Concurrent/past enrollment in Algebra II*

Chemistry Honors

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. Basic trigonometry is introduced and applied.

*Text: Physics Principals and Problems
Credits: 1
Grades: 10 - 12
Prerequisite: Concurrent/past enrollment in Algebra II. Admittance of 10th grade students is based on science department approval and prior school performance with particular attention to science and math courses (scores should be 87% or above).*

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 Sub cellular 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. **Boilogy Lab is required as concurrent enrollment.**

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 semester long course designed to illustrate the connection between microbiology and infectious disease. The course begins by examining various diseases caused by microorganisms (bacteria, viruses, parasites, fungi, etc.) and then explores their impact on individuals, families and societies. As the semester progresses students will do a number of lab activities that will involve the collection, cultivation, examination, identification, and control of various microbes. In addition, students will participate in class projects including teaching sterile technique to middle school students, developing a brochure on an epidemic and designing a lab experiment to test for fungus.

Text: Invisible Enemies: Stories of Infectious Diseases (Jeanette Farrell), The Hot Zone (Richard Preston)
Credits: .5
Grades: 11-12
Prerequisite: Biology (This course is **not** for students with past or concurrent enrollment in AP 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, resources, 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

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)
Credits: 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)
Credits: 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.

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)
Credits: .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 AP Micro & Macro Economics exam.

Text: Micro Economics/Macro Economics Principles and Policies
Credits: 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 10th to 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: 10 – 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)

Credits: .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

Credits: 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.

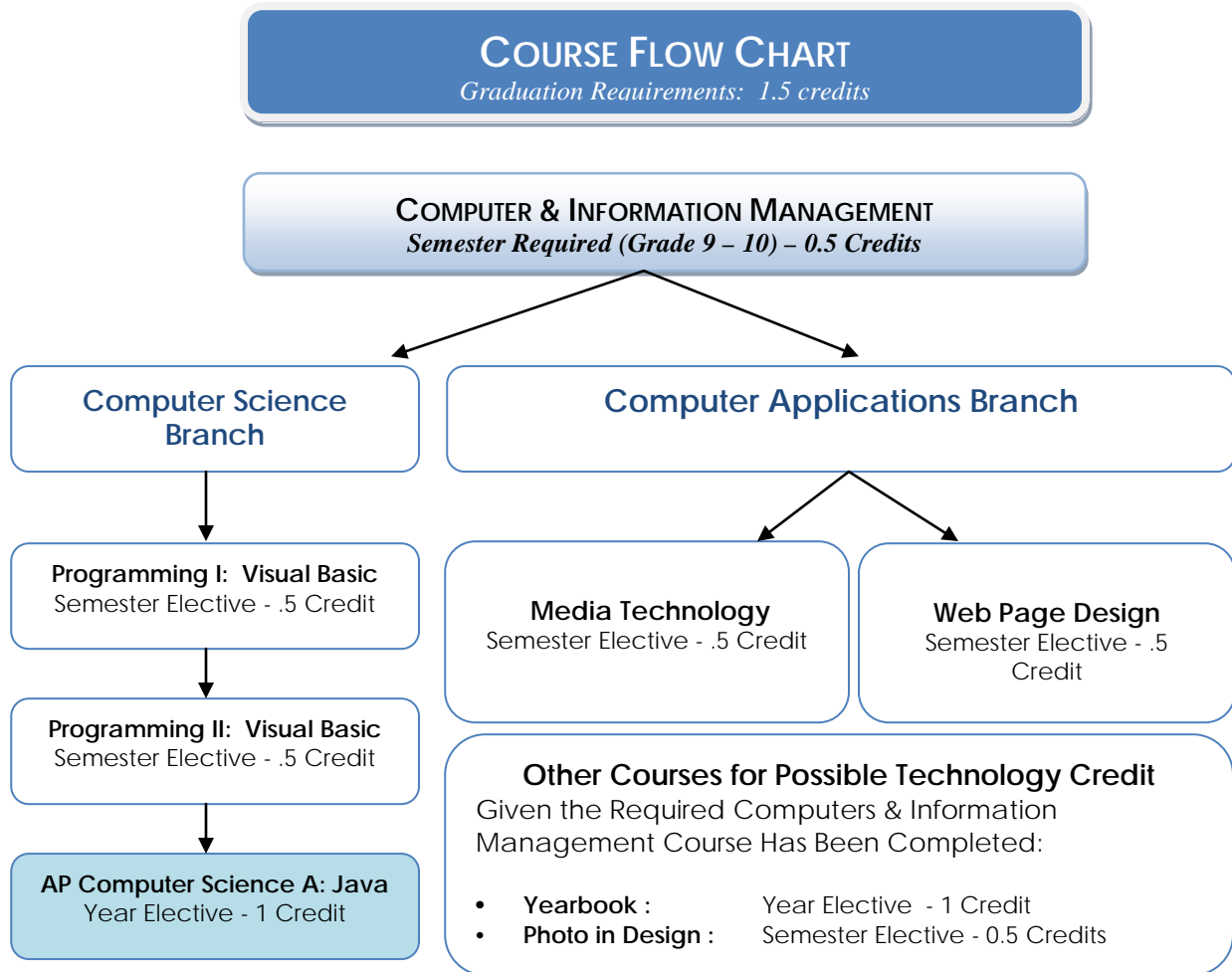
Textbook: World Geography Today (Holt 2008)

Credits: .5

Grades: 11 - 12

Prerequisite: None

TECHNOLOGY



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 and Typing Master Pro will be the software used in this class. An in-depth study of online learning, through Moodle.

Text: A Guide to Microsoft Office 2010 Professional, Lawrenceville Press
Credits: 0.5
Grade Level: 9 – 10 (9th grade preferred)
Prerequisite: None

Computer Applications Focus:

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, students will learn the best techniques to create media projects that have influence on individuals and societies. Students will create media projects such as: websites, brochures, posters, flyers, advertisements and music video clips. 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. Microsoft Publisher, Microsoft Movie Maker and Sony Vegas will be the primary software used. They may use any digital tool, additional programs such as word processing, spreadsheet, photo imaging or graphic enhancement to add to their media projects.

*Text: None
Credits: 0.5
Grade Level: 10 -12
Prerequisite:
Computers and
Information
Management*

Web Page Design

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: 0.5
Grade Level: 10 -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: Photoshop CS5
Digital Classroom,
AQUENT and InDesign
CS5 Digital Classroom,
AQUENT
Credits: 0.5
Grades: 10 - 12
Prerequisite:
Computers and
Information
Management*

Yearbook

This yearlong elective course is a hands-on experience class in which students design and produce the yearbook. Computers are used extensively in constructing the yearbook. Adobe In Design is used for designing the layout and Adobe Photoshop and Photoshop Elements are used to for editing photos. Advertising, selling and book promotion will also be emphasized.

Text: N/A
Credits: 1 (May count for technology or other elective credit)
Grade level: 11 – 12 (May repeat for credit)
Prerequisite:
Permission of Instructor

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: 0.5
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: 0.5
Grades: 10 - 12
Prerequisite:
Programming I: Visual Basic and Computer 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.

Text: A Guide to Programming in Java, Lawrenceville Press
Credits: 1
Grade level: 11 - 12
Prerequisite: See AP/Honors Addendum

ADDITIONAL ELECTIVES

Accounting

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: 11 - 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

Students will have the opportunity to explore 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

MINISTRY OF EDUCATION REQUIREMENT

Arabic Culture

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

ADDENDUM

HONORS AND ADVANCED PLACEMENT PREREQUISITES 2011 – 2012 SCHOOL YEAR

COURSE	PREREQUISITES
ENGLISH: <i>English 10 Honors</i>	<ul style="list-style-type: none"> ▪ 93% or higher in Grade 9 English ▪ Teacher recommendation
ENGLISH: <i>Advanced Placement Language and Composition</i>	<ul style="list-style-type: none"> ▪ 87% or higher in English 10 Honors ▪ Regular English requires an entrance exam and a Teacher recommendation
ENGLISH: <i>Advanced Placement Literature and Composition</i>	<ul style="list-style-type: none"> ▪ 3 or higher on AP Language and Composition Exam ▪ Regular English requires an entrance exam and a Teacher recommendation
FINE ARTS: <i>Art Honors</i>	<ul style="list-style-type: none"> ▪ Two Studio Art classes ▪ Teacher recommendation
GLOBAL LANGUAGES: <i>Advanced Placement French Language</i>	<ul style="list-style-type: none"> ▪ 83% or higher in French IV or equivalent native fluency ▪ Teacher recommendation
GLOBAL LANGUAGES: <i>Advanced Placement Spanish Language</i>	<ul style="list-style-type: none"> ▪ Minimum 3 years of Spanish ▪ Teacher Recommendation
MATHEMATICS: <i>Geometry Honors</i>	<ul style="list-style-type: none"> ▪ 85% or higher in Algebra I ▪ Teacher recommendation
MATHEMATICS: <i>Algebra II Honors</i>	<ul style="list-style-type: none"> ▪ 85% or higher in Algebra I ▪ 85% or higher in Geometry ▪ Teacher recommendation
MATHEMATICS: <i>Pre-Calculus Honors</i>	<ul style="list-style-type: none"> ▪ 85% or higher in Algebra II Honors ▪ Teacher recommendation
MATHEMATICS: <i>Advanced Placement Calculus AB</i>	<ul style="list-style-type: none"> ▪ 85% or higher in Pre-Calculus ▪ Earned credit in Pre-Calculus Honors ▪ Teacher recommendation
MATHEMATICS: <i>Advanced Placement Calculus BC</i>	<ul style="list-style-type: none"> ▪ 85% or higher in Honors Pre-Calculus ▪ Teacher recommendation
MATHEMATICS: <i>Advanced Placement Statistics</i>	<ul style="list-style-type: none"> ▪ 85 % or higher in Algebra II ▪ Teacher recommendation

ADDENDUM *(continued)*
HONORS AND ADVANCED PLACEMENT PREREQUISITES
2011 – 2012 SCHOOL YEAR

COURSE	PREREQUISITES
SCIENCE: <i>Biology Honors</i>	<ul style="list-style-type: none"> ▪ Students are admitted into honors level based on science department approval. ▪ The science department will consider prior school performance with particular attention to science courses. ▪ Standardized testing scores will be considered with a focus on critical thinking and reading scores (scores should be 85% or above). ▪
SCIENCE: <i>Chemistry Honors</i>	<ul style="list-style-type: none"> ▪ 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: <i>Advanced Placement Biology</i>	<ul style="list-style-type: none"> ▪ 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: <i>Advanced Placement Chemistry</i>	<ul style="list-style-type: none"> ▪ 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: <i>Advanced Placement Physics</i>	<ul style="list-style-type: none"> ▪ 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 Grade 9 Conceptual Physics or Integrated Science at the 9 and/or 10 grade level—although this is not recommended)

ADDENDUM *(continued)*
HONORS AND ADVANCED PLACEMENT PREREQUISITES
2011 – 2012 SCHOOL YEAR

COURSE	PREREQUISITES
SOCIAL STUDIES: <i>Advanced Placement Economics</i>	<ul style="list-style-type: none"> ▪ 87% or higher in Algebra II ▪ Teacher recommendation in all core courses for work ethic
SOCIAL STUDIES: <i>Advanced Placement Psychology</i>	<ul style="list-style-type: none"> ▪ 85% or higher in regular Social Studies; 80% or higher in Honors and AP course ▪ 85% 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: <i>Advanced Placement US History</i>	<ul style="list-style-type: none"> ▪ 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: <i>Advanced Placement World History</i>	<ul style="list-style-type: none"> ▪ 85% or higher in regular Social Studies; 80% or higher in Honors and AP course ▪ 85% 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: <i>Advanced Placement Computer Science A: Java</i>	<ul style="list-style-type: none"> ▪ Programming I & II ▪ Teacher Recommendation
INTERNATIONAL BACCALAUREATE DEVELOPMENT PROGRAMME (IBDP)	<ul style="list-style-type: none"> ▪ As per IBDP Application Process

DHAHRAN BACCALAUREATE CENTRE

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME (IBDP)

These courses are for IBDP accepted students only

GROUP 1

IB English SL

Within the broad perspective of appreciating different cultures, the SL English course is set out in four parts, each part internally coherent to itself and, equally supporting the other parts. These parts and their individual assessments are: 1) World literature in translation, assessed through externally marked essays; 2) Detailed Study, assessed through an externally marked oral presentation; 3) Groups of works. The English Department has chosen the Theatre option, assessed by a final exam; 4) School's free choice: assessed internally and moderated externally. The order of teaching is parts one and four in 11th grade and two and three in 12th grade. SL students study ten texts over the two year period.

Within this framework, students will study a wide range of texts in the major areas of literature and develop skilled writing through a close and detailed analysis of these texts and selected extracts from other sources through regular essays and oral presentations. In addition, students enhance their research skills to give range and depth to their studies.

Text: 10 books; see English Department for list
Credits: 2 (for two-year course)
Grades: 11 and 12 (two year course)
Pre-requisite: 10th grade English or IGCSE English Language and IGCSE English Literature

IB English HL

IB English HL students will read the same texts as those in the SL course, along with an additional three works. An additional essay will be required as well as a greater depth and breadth of understanding.

Text: 13 books; see English Department for list
Credits: 2 (for two-year course)
Grades: 11 and 12 (two year course)
Pre-requisite: 10th grade English or IGCSE English Language and IGCSE English Literature

GROUP 2

IB French Ab Initio SL

The International Baccalaureate's French Ab Initio is a course for beginners of French. It aims to give students the language they need to communicate in French in a variety of everyday situations. The course topics are organized into three themes: individual and society, leisure and work and urban and rural environment. More specifically, these will include holidays, food, one's region and hometown, weather, health, emergencies, past-times, careers, schooling, and ecology. Students are expected to develop receptive, productive and interactive skills. Students will participate in group work, give oral presentations, and be exposed to a variety of French-language media from around the French-speaking world.

Texts: Expo 1, 2, 3 (Heinemann)
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

IB French B SL

This course aims to develop competency in reading, writing, speaking and listening. SL students will understand straightforward, authentic information on the topics studied. Students will communicate orally to explain a point of view, describe events and concepts in some detail and produce texts that are generally appropriate to the audience and purpose. Students will demonstrate intercultural engagement with French and Francophone cultures.

Text: TBD
Credits: 2 (for two-year course)
Grades: 11 and 12 (two year course)
Pre-requisite: French 2 or IGCSE French

IB French B HL

The course aims to develop competency in reading, writing, speaking and listening. HL students will understand complex recorded, written or spoken information on the topics studied as well as appreciate literary works in the target language. Students will communicate orally and be able to describe experiences, events and abstract ideas and concepts. Students will also interact in French with spontaneity and fluency. They are also expected to demonstrate some intercultural engagement with French and francophone cultures. This course is different from Standard Level in its depth and breadth of syllabus coverage, assessment details and criteria and coverage of literature.

Text: TBD
Credits: 2 (for two-year course)
Grades: 11 and 12 (two year course)
Pre-requisite: French 3 or IGCSE French

IB Spanish Ab Initio SL

The International Baccalaureate's Spanish Ab Initio (SL) is a two year course for complete beginners of Spanish. It aims to give students the language they need to communicate in Spanish in a variety of everyday situations. The course topics are organized into three themes: individual and society, leisure and work and urban and rural environment. More specifically, these will include holidays, food, one's region and hometown, weather, health, emergencies, past-times, careers, schooling, and ecology. Students are expected to develop receptive, productive and interactive skills. Students will participate in group work, give oral presentations, and be exposed to a variety of Spanish-language media from around the Spanish-speaking world.

Text: TBD
Credits: 2 (for two-year course)
Grades: 11 and 12 (two year course)
Pre-requisite: None

Arabic B SL

This course enables students to socially interact, and effectively communicate in an environment where Arabic is spoken. During the course of study, students will be exposed to a wide range of Arabic books, texts, and materials that will enable them to achieve a considerable level of efficiency in the target language. Resources will integrate culture whereby candidates will gain awareness of traditions, sensitivity to the audience, confidence in communication, and appreciation of literature and arts.

Students will be required to use Modern standard Arabic but could be exposed to different dialects in the Arab World. Students are expected to understand various texts, answer comprehensive questions, identify main ideas, and summarize texts in their own words. They will expand vocabulary, apply grammar and manage structure in their essay writing. Students will learn about and discuss social issues relevant to the Arab world.

Text: TBD
Credits: 2 (for two-year course)
Grades: 11 and 12 (two year course)
Pre-requisite: Arabic 3 or GCSE Arabic

GROUP 3**IB History SL**

This course is designed to develop a richer understanding of the present from a deeper understanding of the past. Students will do this by researching the main developments in 20th Century World History. Students will process a variety of research and information focused on the Modern Middle East, the Arab-Israeli conflict, wars and the causes of wars, and the emergence of single party dictators in the modern era. Analytical skills will be employed to examine and evaluate different interpretations of past events and make judgments on the reliability of different historical sources. The course will also invite comparisons between different cultures, polities and national traditions. Students will be encouraged to respect and understand people and events in a variety of cultures throughout the world.

Text: TBD
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

IB History HL

Students completing IB History HL will complete the same course of study as SL students in addition to a broader, more in-depth look at the Arab-Israeli conflict as well as the 19th and early 20th century Ottoman Empire, and the Middle East from 1914-2000.

Text: TBD
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

IB Geography SL

This course develops an understanding of the inter-relationships between people places, spaces and the environment. This is done via the study of a broad-based core theme on patterns and change in Geography and the study of three optional themes of hazards and disasters, urban environment and food and health. HL students also study Global Interactions. A compulsory fieldwork project on a topic of interest in Geography completes the syllabus requirements.

Text: Geography an integrated approach 4th edition (Nelson Thornes)
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

IB Geography HL

HL Geography students cover the same topics as those in SL plus the additional topic of Global Interactions.

Text: Geography an integrated approach 4th edition (Nelson Thornes)
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

Business & Management SL

This is a two year course that covers the topics of Business Organization, Human Resources, Finance, Marketing and Operations Management. Some topics require a basic ability to calculate and interpret statistics. The exam is based on a pre release case study and data response questions. The students are expected to be able to evaluate and apply Business theories and concepts.

Text: Business and Management (Oxford)
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

Business & Management HL

Students completing Business and Management HL will cover the same topics as SL students in addition to Business strategy. Students will be expected to evaluate and apply Business theories and concepts with greater sophistication than SL students.

Text: Business and Management (Oxford)
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

Economics SL

This course covers the topics of an introduction to Economic ideas, Micro (Individual & Business) Economics, Macro (National) Economics, International Economies and Developing Economies. Some topics require a basic ability to calculate and interpret statistics. The exam is two written papers of long answers and data response with a stimulus material provided. The students are expected to be able to apply and evaluate current Economic theories and concepts.

Text: Economics from a global perspective (Glanville)
Credit: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

Economics HL

Students in HL Economics cover the same topics as those in SL, though each topic is studied in greater depth.

Text: Economics from a global perspective (Glanville Books)
Credits: 2 (for two-year course)
Grades: 11 and 12 (two-year course)
Pre-requisite: None

GROUP 4

IB Biology SL

This is a two year course that emphasizes four basic biological concepts (structure and function, universality versus functionality, equilibrium within systems and evolution) across several core topics; statistical analysis, cell theory, chemistry of life, genetics, ecology and evolution and human health and physiology. Two additional topics will be covered outside the core curriculum including additional Human Physiology and Neurology & Behavior.

An interdisciplinary group project will help students realize that one discipline is not isolated from another and scientists can work together on problems to discover and solve.

Text: Biology SL (Heinemann Baccalaureate) plus additional materials
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: None

IB Biology HL

In this two year course, biological concepts are treated in greater depth and detail than in SL. The first year focuses with depth and detail on cell structure and function, theoretical genetics and ecology. In the second year students explore the human body systems with an emphasis on nutrition and neurology. Throughout the course, laboratory-based investigation and statistical analysis form the foundation for student learning.

*Texts: IB Diploma Programme Biology Course Companion (Oxford)
Additional materials yet to be determined
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: Biology*

IB Chemistry SL

Chemistry SL is an accessible course for all IB diploma students that will combine theoretical and experimental studies of major chemical principles. Chemistry studies the atomic world and how the interactions of atoms affect the atoms themselves, their properties and the properties of all molecules that are made of these atoms and how these molecules react with each other. Chemistry is a bridge between all the sciences as the application of chemical principles affects biological, physical and environmental systems.

*Text: Chemistry 3rd Edition (IBID Press)
Chemistry and Chemical Reactivity (Thompson Brooks/ Cole Publishing)
Chemistry for the IB Diploma Standard and Higher Level (Oxford)
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: None*

IB Chemistry HL

Students will complete all topics and laboratory experiments as the IB Chemistry SL course and have extension topics within each unit in addition to more complex laboratory experiments. Chemistry HL is meant for student with a strong science knowledge base and desire to learn about chemical systems.

*Text: Chemistry 3rd Edition (IBID Press)
Chemistry and Chemical Reactivity (Thompson Brooks/ Cole Publishing)
Chemistry for the IB Diploma Standard and Higher Level (Oxford)
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: Students should be concurrently enrolled in Mathematics SL or Mathematics HL*

IB Physics SL

Physics is a science that seeks to explain how the physical Universe operates. The investigation ranges from the distant stars to particles smaller than an atom. Students will learn in the course that facts about the Universe are collected by observation and experiment. Theories are then thought up to explain what data has been collected. These theories are applied and tested (often using math) and the reward is a better understanding of our physical Universe. This course will provide an introduction to physical theories governing: Physics and physical measurement, Mechanics, Oscillations and waves, Fields and forces, Electric currents, Atomic and nuclear physics, Thermal physics, Energy, power and climate change, and Sight and wave phenomena, Quantum physics and nuclear physics.

Text: TBD
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: None

IB Physics HL

This course covers the same topics as IB Physics Standard Level, the difference is one of depth and breadth. Topics studied in greater depth are: Motion in fields, Wave phenomena, Electromagnetic induction, Quantum physics and nuclear physics, Thermal physics, and Digital technology. The additional materials are: Electromagnetic waves and Medical physics.

Text: TBD
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: Students should be concurrently enrolled in Mathematics SL or Mathematics HL

GROUP 5

IB Math Studies SL

This course is intended for the student to enhance their knowledge of mathematics and build confidence and appreciation in their understanding of mathematics in today's world. Students will apply and utilize their reasoning skills, logically and creatively to solve everyday problems.

This course will introduce various fields of mathematics including the use of the graphing calculator, numbers and algebra, sets, logic and probability, functions, geometry and trigonometry, statistics, introductory differential calculus and financial mathematics. Students will be expected to apply this knowledge relatively in their vocation, home and leisure activities.

Text: Mathematics Studies SL (2nd edition), (Haese and Harris), Mathematical Studies - Course Companion, (Oxford), Mathematical Studies for IB Diploma: IB Study Guide (Oxford)
Credits: 2 (for two-year course) at 1 credit per year

IB Mathematics SL

The focus of the mathematics SL course will be to develop the mathematical understanding and competence of those who already possess knowledge of basic mathematics and will require some extended mathematical knowledge for further studies in general fields related to mathematics such as economics, science and business administration. The purpose of the course is to prepare students for additional studies which require mathematical techniques by introducing mathematical concepts in a comprehensive and coherent way. The course will aim to develop logical, critical and creative thinking and reasoning by understanding the principles and nature of the subject, to develop resilience and persistence in problem solving and build up transferable communicable skills for use in technological and alternative circumstances.

Text: Mathematics SL (2nd edition), (Haese and Harris)
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: Algebra 2 or IGCSE Maths with IB Coordinator approval

IB Mathematics HL

Through a careful balance of concept-development, investigation, and modeling, HL students will learn to apply formal mathematical reasoning and analytical problem-solving skills to a multitude of meaningful contexts. Students will develop the ability to prove and justify their results formally and judge the significance and importance of their results. Technological devices, including computers and graphing calculators, will be utilized to present information, facilitate calculation, and communicate data in understandable forms. Topics of study in this course include algebra, functions and equations, circular functions and trigonometry, matrices, vectors, statistics and probability calculus and series and differential equations.

Text: Mathematics Higher Level for the IB Diploma, (Oxford) Mathematics for the international student: Mathematics HL (Core) 2nd Ed, (Haese and Harris)
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: Algebra 2 Honors or IGCSE Further Maths with IB Coordinator approval

GROUP 6

IB Computer Science SL

Computer Science involved solving problems using computers. The computer science standard level (SL) course focuses on software development, fundamentals of computer science and the relationship between computing systems and society. Therefore a full understanding of logical problem solving is required as well as a detailed knowledge of how computers operate. Students will be guided by problem-solving strategies that will be continually reinforced in their coursework. This involved: identifying and defining the problem(s) to be solved using computerized systems, breaking (decomposing) the problem into parts, then construing appropriate algorithms to create a solution.

Students are expected to master the JAVA programming language and appropriate software design techniques. Each student will develop a Program Dossier to demonstrate mastery of the basic computer science techniques.

Text: Computer Science JAVA Enabled, Meyenn & Jones, An Introduction to Object-Oriented Programming with JAVA, C. Thomas Wu, Computer Science, The Dossier, Jones
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: None

IB Computer Science HL

IB Computer Science HL curriculum builds on the concepts introduced in the standard level course. Students are expected to master additional features in JAVA programming language, specifically advanced data structures such as linked list, trees and direct file input and output. Each student will develop a Program Dossier to demonstrate mastery of these advanced computer science techniques.

Text: Same as IB Computer Science SL
Credits: 2 (for two-year course) at 1 credit per year
Grades: 11 and 12 (two-year course)
Pre-requisite: Concurrent enrollment in Mathematics HL or Mathematics SL

IB Visual Art SL

This is a studio based course which will enable students to learn behaviors that will encourage creative and artistic growth. Throughout the course, students will investigate the past, present, and emerging forms of art and will be able to link their research with their own art. They will explore different techniques used in various types of media in order to refine the outcome of their final products. Students will learn to research their chosen directions and use their teacher as a technical assistant in order to come up with their own unique style as a young artist.

Students will be encouraged to have an open-minded approach to different cultures, traditions, and aesthetics. Discipline and diversity will be encouraged in the production of the art works in order to facilitate success and generate truly personal art work. Teacher evaluation, peer critical review sessions and self assessment will be used as an affective teaching and learning tool.

Text: History of Art through Ages
Credits: 2 (for two - year course)
Grades: 11 and 12 (two year course)
Pre-requisite: None

IB Visual Art HL

HL students consider the same topics and skills as SL students in addition to having the opportunity to develop ideas and skills, to produce a larger body of work and work of greater depth than students in SL. In order to reflect this, the assessment criteria are differentiated according to option and level.

Text: History of Art through Ages
Credits: 2 (for two - year course)
Grades: 11 and 12 (two year course)
Pre-requisite: None

Theory of Knowledge

This brings together the IB student's diverse subjects to examine what knowledge is and how one knows it. The course aims to show students ways they can hold strong beliefs, debate effectively, make responsible decisions, consider the ethics of their actions, identify assumptions, make cautious generalizations, accept criticism, and respect the ideas of others. They will examine the role of belief, certainty, culture, evidence, experience, explanation, interpretation, intuition, truth and values in their lives by broadly examining language, perception, reason and emotion as ways of knowing. Students will link these two areas of knowledge such as the arts, history, human sciences, natural sciences, mathematics and ethics. The course is assessed by a presentation on a current issue (internally assessed) and a 1500 word essay (externally assessed). Students will also be expected to contribute to group discussions, maintain a weekly reflective journal and complete short assignments.

Text: Theory of Knowledge (Heinemann)
Credits: 2 (for two-year course)
Grades: 11 and 12 (two year course)
Pre-requisite: Enrollment in the IB Diploma Programme