



# JIS

high school course description guide  
2010 - 2011

# 2010

# HIGH SCHOOL COURSE DESCRIPTION GUIDE

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# 2011

## Introduction

Jakarta International School offers a full high school program of studies designed to prepare students for a successful university experience around the world. Admission is open to expatriate and Indonesian students in the Jakarta community. The high school program is based on the North American model whereby students accumulate “credits” toward graduation and a High School Diploma. Many students also take the International Baccalaureate Diploma programme. In addition Advanced Placement (AP) courses are offered in a wide range of subjects which provides students with a range of choice that is unrivalled in Jakarta. Students who successfully complete the requirements for graduation may matriculate in universities and colleges.

This Course Description helps each student plan a high school program that meets his/her individual interests, abilities, needs and goals for further education. The booklet describes all of the courses that the high school intends to offer in 2010-11. *The inclusion of a course description in this booklet does not guarantee the inclusion of the course in the next year's program. Courses will be scheduled on the basis of student interest and the most effective utilization of teachers and resources.* The school reserves the right to cancel any course for administrative reasons. Because of changes in the school population, new students to the high school may find that some of their first choice electives are full. The JIS administration and counseling staff reserve the right to direct student course selection.

In some years courses can be over-subscribed (more requests than places available). Where possible new sections will be opened to accommodate student choice, but sometimes this may not be possible due to teacher time limits, space/facility constraints, etc. Where it is necessary to deny some students their first choices, the following occurs:

- Information is gathered about students who requested the course from current teachers.
- A determination is made as to their suitability to enter the course in the following year.  
This can include the student's demonstrated commitment to the subject area (participation in similar/related activities), behavior/work habits, grade level, and collaborative skills.
- Students denied their choice will be encouraged to request other courses through their counselor.

Students and parents should study the individual course descriptions for each subject area and the program planning advice and other information given, in order to make an intelligent selection from the courses offered. Students and parents who require more information about courses and who need assistance in program planning should arrange to meet with teachers, counselors and/or IB/AP Coordinator.

## Academic Programs

The JIS academic program leads to a standard U.S. high school diploma. JIS also offers the International Baccalaureate Programme. This is an academically rigorous and challenging program that is recognized in most countries of the world as a university entrance qualification. Many of the leading universities in the United States grant IB students advanced standing, some as much as a full year. The IB Program demands hard work, a mature attitude and self-discipline; it is unquestionably excellent preparation for university level study. JIS also offers the Advanced Placement, a program of credit by examination for college-level studies pursued in high school. The AP also provides students with a challenging program of studies providing access to advance placement and credit at universities, especially in North America.

The high school includes grades 9-12. A student's schedule includes at least six classes (four academic courses, including English, and two electives).

Students receive a letter grade and semester credit for each course successfully completed. Students in Grades 9-10 are strongly encouraged to take seven classes, five academic classes and two non-academic electives. A student in grade 12 taking 5 externally examined courses in semester 2 (for example 5 IB courses or 5 AP courses, or a mixture of 5 IB/AP), may request a waiver of the "6 classes rule" and take 5 courses. The waiver will only be considered if the student is registered to take the external exams.

Students are **not permitted** to take eight courses.

## Flow Charts

These flow charts are very useful to use when planning an academic program. For students in Grades 8, 9 and 10 it is very important that they are correctly "positioned" to be able to take their desired courses in their 11th and 12th grade years. A **4 Year Plan** is essential and should be carefully worked out with the help of counselors. You will find Flow Charts for each department at the back of this Guide.

## Graduation Requirements

### Credit Requirements for JIS Graduation

| <b>Subject Area/Discipline</b> | <b>Recommended</b>   | <b>Minimum</b>    | <b>Average Credits Earned by Class of 2008</b> |
|--------------------------------|----------------------|-------------------|------------------------------------------------|
| English                        | 4 credits            | 3 credits         | 4.0                                            |
| Mathematics                    | 3 credits            | 2 credits         | 4.0                                            |
| Science                        | 3 credits            | 2 credits         | 4.5                                            |
| Social Studies                 | 3 credits            | 2 credits         | 4.8                                            |
| Modern Language                | 3 credits*           | 1 credit          | 3.6                                            |
| Physical Education             | 1.5 credit           | 1 credit          | 1.5                                            |
| Visual & Performing Arts       | 1 credit             | 1 credit          | 2.1                                            |
| Technology                     | 0.5 credit           | 0.5 credit        | 0.8                                            |
| Health Education               | 0.5 credit           | 0.5 credit        | 0.5                                            |
| Indonesian Studies             | 0.5 credit           | 0.5 credit        | not calculated                                 |
| Electives                      | 5 credits            | 8.5 credits       | not calculated                                 |
| <b>Total:</b>                  | <b>25 credits **</b> | <b>22 credits</b> | <b>26 credits</b>                              |

\* In the same language

\*\* Beginning with the class of 2013 (the Grade 10 class in school year 2010-11) the minimum number of credits required will be 24 to graduate with a JIS HS Diploma.

*In addition to the above requirements, a student is also required to complete eight semesters of attendance in high school. Students must also take an English credit course every year. In order to graduate a student must have completed English 3 or equivalent.*

## Letter grades, Course weighting and GPA

Letter Grades are reported at the end of each semester and credit is awarded for courses successfully completed. Certain courses receive weighting in the computation of cumulative grade-point average (failing grades excluded). There are two tiers of courses in this scheme. Courses in the first tier, marked with a single asterisk in the course listing, receive a weighting of one half point. Courses in the second tier, marked with two asterisks in the course listing, receive a full point weighting. The original grade appears on the report card; the weighting is calculated in the computation of cumulative Grade-Point Average (GPA) only. Advanced courses (IB and AP) are so indicated on the official transcript. The scale below indicates the corresponding letter grade, percentage and grade points without the weighting:

| Letter Grade | Grade Points |
|--------------|--------------|
| A+           | 4.3          |
| A            | 4.0          |
| A-           | 3.7          |
| B+           | 3.3          |
| B            | 3.0          |
| B-           | 2.7          |
| C+           | 2.3          |
| C            | 2.0          |
| C-           | 1.7          |
| D+           | 1.3          |
| D            | 1.0          |
| D-           | 0.7          |
| F            | 0.0          |

## Credits

One credit represents work for approximately 120 hours for one school year (based on the Carnegie Unit). At least five credits must be earned at JIS to be eligible for graduation. Courses taken in grades 7 and 8 do not count for graduation credits. A student must satisfactorily complete two quarters of work, attend a minimum of 80 percent of all scheduled class periods, and complete all key summative assessments (including tests, projects, exams etc) in order to receive a semester grade and one-half credit.

## International Baccalaureate

The International Baccalaureate (IB) Program is a two-year pre-university course leading either to the IB Diploma or to separate IB subject certificates, depending on the student's plans for further education. A highly respected academic program, the IB is recognized by colleges and universities in countries on six continents. Students who complete the IB Diploma (and/or certificates) and wish to pursue higher education in the U.S. are granted advanced placement and/or university credit by a growing number of colleges and universities. All IB Diploma students are expected to be working towards JIS graduation requirements.

To secure the IB Diploma, six major areas of study must be completed successfully. In addition, students must also study Theory of Knowledge (a course that unifies and inter-relates the other areas of study) submit an Extended Essay (a substantial piece of independent research of up to 4,000 words), and participate in the CAS (Creativity, Action, Service) Program.

The courses listed in the chart below are offered at JIS as part of the IB program.



## IB Program Course Offerings

|         |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Group 1 | Language A1<br>(Study of Literature)                                                                                                                                                                                                                                              | English (H and S)<br>Indonesian (S)<br>Japanese (S)<br>Korean (S)<br>School Supported Self-Taught (S) – any IB language                                                                                        |
| Group 2 | Language A2<br>(Study of Language & Literature)<br>Language B<br>(Language acquisition<br>course for students with<br>some background in the<br>target language)<br>Ab Initio<br>(Language acquisition<br>course for students with<br>little or no experience of<br>the language) | English A2 (H and S)<br><br>English (H)<br>French (H and S)<br>Indonesian (H and S)<br>Mandarin (S)<br><br>Spanish (S)<br><br>Japanese (S)<br>Spanish (H and S)                                                |
| Group 3 | Individuals and Societies                                                                                                                                                                                                                                                         | Business and Management (H)<br>Economics (H and S)<br>Geography (H)<br>History (H and S)<br>Information Technology in a Global Society (S)<br>Psychology (H and S)<br>Environmental Systems and Societies (S)* |
| Group 4 | Experimental Sciences                                                                                                                                                                                                                                                             | Biology (H and S)<br>Chemistry (H and S)<br>Environmental Systems and Societies(S)*<br>Physics (H and S)                                                                                                       |
| Group 5 | Mathematics                                                                                                                                                                                                                                                                       | Computer Science (H and S)<br>Mathematics (H)<br>Mathematics Standard (S)<br>Mathematical Studies (S)                                                                                                          |
| Group 6 | Music (S and H), Theater Arts (H and S), Visual Arts (H and S), Film (H and S)<br>Options from Group 2, 3 and 4 shown above<br>* <i>Environmental Systems and Societies (SL)</i> is a transdisciplinary course which                                                              |                                                                                                                                                                                                                |

## Advanced Placement

AP® is a rigorous academic program which provides willing and academically prepared high school students with the opportunity to study and learn at the college level. Each AP course is modeled on a comparable college course, and college and university faculty play a vital role in ensuring that AP courses align with college-level standards.

AP courses culminate in a suite of college-level assessments developed and scored by college and university faculty as well as experienced AP teachers. AP Exams are an essential part of the AP experience, enabling students to demonstrate their mastery of college-level course work. Strong performance on AP Exams is rewarded by colleges and universities worldwide. AP is recognized by more than 600 universities in more than 55

countries outside the United States, and more than 90 percent of four-year colleges and universities in the United States grant students credit, placement or both on the basis of AP Exam scores.

## List of AP Subjects recently taken by students at JIS

- Calculus AB
- Calculus BC
- Chemistry
- Computer Science AB
- English Language and Composition
- English Literature and Composition
- Environmental Science
- Physics B
- Physics C - Mechanics
- Psychology
- Statistics
- Microeconomics
- United States History

## *Policy on registration for external IB and AP Exams*

Apart from the educational benefits and increased credibility of an externally assessed exam, it is important that we as an institution report accurately to universities the courses that students have taken. The IB or AP designation is significant information and many universities assume that, if the course is listed on transcripts, then the external exam will be taken.

Given the above, it is mandatory for all students who choose to take a final year IB/AP course (e.g. H2, S2 or AP) that they will register for and sit the externally set exam in May.

Approximate cost per IB and AP exam is \$100, in addition to which there is a registration fee for IB exams of approximately \$140. Registration and payment will occur in October/November.

If a student does not register for the external exam they will be required to move to a suitable alternative course at the end of semester. If there is no such alternative and they remain in the exam course, the course designation will be changed on transcripts to a non-IB/AP course designation. For example, IB H2 Physics would become Honors Physics. Students not taking the external IB/AP subject exam will be required to write their semester exam (for second semester) in May.

## *Purpose and Goals of 9<sup>th</sup> Grade Project Week*

Project Week was established at JIS in 1993 to enhance the JIS curriculum by providing students with opportunities for cultural enrichment, personal growth, and service and environmental awareness activities. The Project Week trips generally focus on the South East Asian region. All 9th grade students are required to participate in a Project Week experience.

JIS offers a selection of trips each year based on current student enrollment, teacher interest and links to the JIS essential qualities. All Project Week trips share the following core components:

**Interpersonal Skill Development** – Positive interaction between students, teachers, guides and local people is a hallmark of all Project Week trips. As the travel groups are randomly selected there is a great opportunity for the students to meet new friends and to begin to develop a whole class identity.

**Service** – An element of service is embedded in most Project Week trips. Service learning helps students learn and care about others. Service Projects take many forms based on the specifics of the trip and the needs of the communities visited.

**Personal Growth** – Many of the Project Week trips center around the students setting a personal goal and working during the week to achieve this goal. These trips will provide opportunities for self reflections, goal setting and self and peer evaluation.

**Cultural Enrichment** – Experiencing a new culture or reinforcing experiences with a familiar one can help our students truly become best for the world. Deeper understanding of any culture is best fostered through experience.

## *2010-2011 Course Changes*

### **New Courses**

### **IB SL Course Changes**

Many IB Standard Level (SL) courses are already 2 year programs. A phased implementation of “Two Year Only” IB SL courses continues this school year. Please carefully read course descriptions for IB SL one year courses: this is important for the 4 year academic plan.

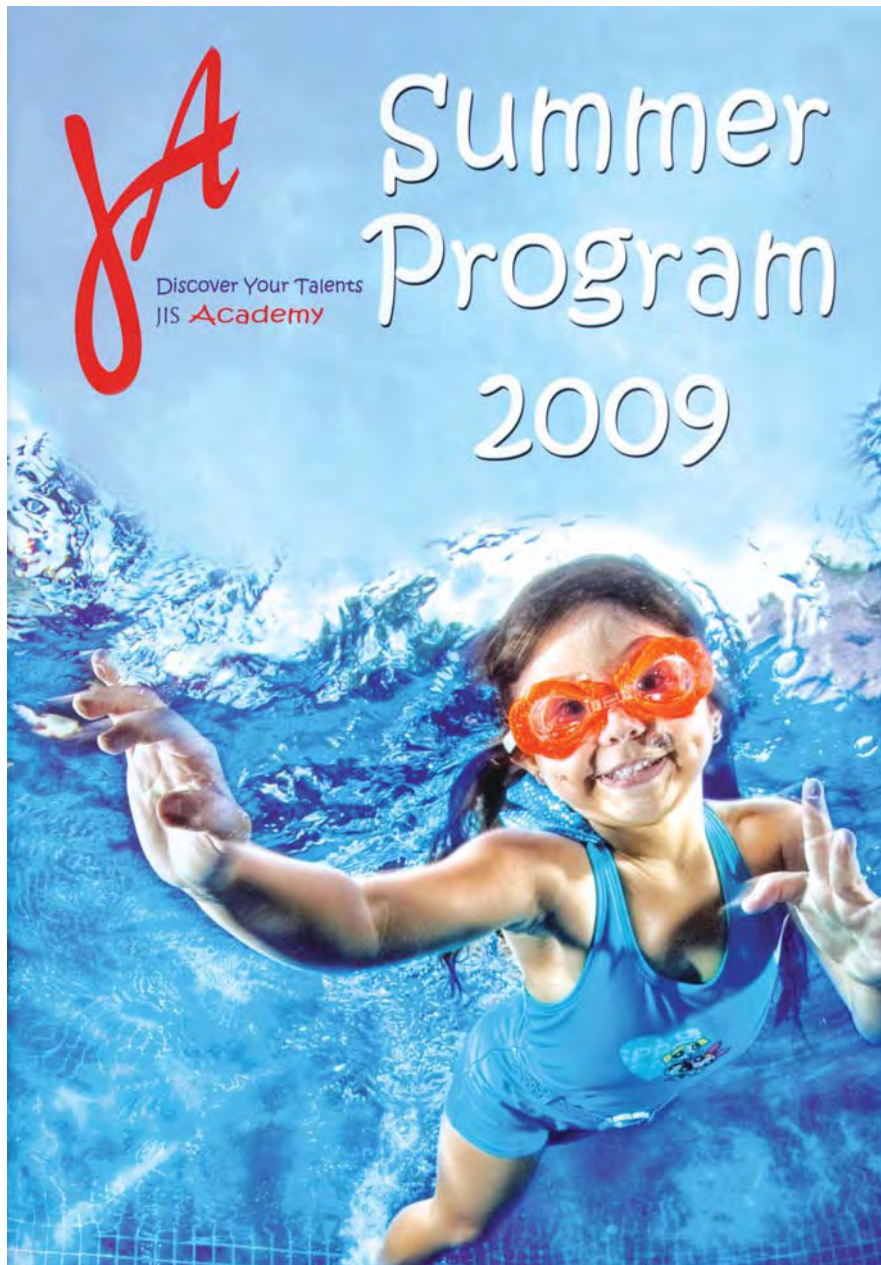
## JIS Academy (JA)

The philosophy of JIS Academy reflects that of the High School. One strand of JIS Academy is dedicated to high school courses, though the Academy does not offer the range of courses provided by the High School during the regular school year. The goals of the summer school section of JIS Academy are to provide an opportunity for educational enrichment, educational remediation, and an opportunity to better meet the requirements of the IB and AP diploma programs.

It is not the function of the Academy to facilitate early graduation. Students entering 9th grade may gain a half (0.5) credit for the successful completion

of the High School Technology course, by taking the Everyday Tech (formerly Computer Apps) course or equivalent. They may also gain 0.5 credit for successfully completing the Indonesian Studies course. Health can also be taken in the summer prior to grade 10, otherwise all students take health as a semester course in their 10th grade.

Students entering 10th through 12th grade may gain half (0.5) an elective credit for the successful completion of Everyday Tech (formerly Computer Apps) course, Art, and Indonesian Studies. Credit will not be granted for other JIS Academy courses or any other summer courses taken at other institutions.



## English

The English Department believes that every student should know how to think, listen, write and speak clearly, read with understanding and appreciation, and be exposed to some of the best examples of literature.

### English 9 (1150y)

*One year - 1 credit*

*Grade 9*

*Prerequisite: English 8*

This course offers a literature based, comprehensive language arts experience. It focuses upon the development and refinement of close reading, composition, listening and speaking skills. Literature, as a vehicle to self-understanding, is an emphasis.

### English 10 (1250y)

*One year – 1 credit*

*Grade 10*

*Prerequisite: English 9*

Students focus on the genres of poetry and drama from world literature, while continuing to read short stories and novels in connection with their studies. They study a variety of composition skills, writing both formally and informally. Research skills are sharpened through the I-Journey paper, an extended exploration project. Emphasis is placed upon growth of reading, writing and speaking with an understanding of the conventions of various text types and media.

### English 11 (1350y)

*One year - 1 credit*

*Grade 11*

*Prerequisite: English 10*

This course provides the foundation for skills that students need to go on to senior-level courses in AP Literature and Composition or AP Language and Composition or English 12. By reading a variety of texts – fiction, non-fiction, and poetry – students extend their vocabulary and increase their understanding of how writers use language and literary techniques to communicate their ideas. Through various types of writing, students develop stylistic maturity and the ability to organize ideas in clear, coherent, and persuasive language.

### \*IB S1 English A1 (1810y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: English 10*

This course and its second year continuation offer excellent preparation for the university-bound student. The same principles apply to the study of IB English A1 at the Standard as at the Higher level. The course includes training in oral and written expression, critical analysis, and composition, but the syllabus covers fewer literary works than in IB English H1. Students enrolled in this course will be expected to take the IB examination at the end of year 12.

### \*\* IB H1 English A1 (1815y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: English 10*

This course focuses students upon the development and refinement of critical thinking, close reading, speaking and listening skills, while engaged in the exploration and enjoyment of quality literature. Students study in depth a wide range of texts that cover the four genres of drama, poetry, prose fiction and nonfiction. A rich and challenging course, this offering is designed for those with a passion for literature. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of year 12

### \*IB S1 English A2 (1811y)

*First year – 1 credit*

*Grade 11*

*Prerequisite: English 10, English 10 LE, fluency or near fluency in English*

The first of a two-year sequence, this course is designed for speakers of fluent or near-fluent English. The course includes training in oral and written expression, critical analysis and composition. The combination of literary and non-literary material studied focuses on the topic areas of Language and Culture, and the Media. The course reflects the current expectations of the IB English A2 Standard Level examination.

### **\*\*IB H1 English A2 (1825y)**

*First year – 1 credit*

*Grade 11*

*Prerequisite: English 10, English 10 LE, fluency or near fluency in English*

The first of a two-year sequence, this course is designed for speakers of fluent or near-fluent English. The course includes training in oral and written expression, critical analysis and composition. The combination of literary and non-literary material studied focuses on the topic areas of Language and Culture, and the Media. The course reflects the current expectations of the IB English A2 Higher Level examination.

### **IB H1 English B (1820y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: Successful completion of English 10 LE or teacher recommendation*

The first of a two-year sequence, this course in English vocabulary, sentence structure and style is designed for the non-native English learner. It is intended for students whose language skills still need to be enhanced in order to meet the challenges of further studies or a future career. These language skills are developed through the study and use of a range of written and spoken materials. The literature of the course reflects the current expectations of the English B Higher Level examination.

### **English 12 (1355y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Successful completion of English 11*

English 12 is designed to prepare students for the rigors of college-level English through the continued development of critical reading, writing and speaking skills. Because English 12 does not culminate in an externally assessed exam, students and teacher have the latitude to explore a wider variety of genres and cultures with respect to the reading and writing covered. In the first semester special attention is given to the development of independent reading skills and the creation of a cogent and engaging college essay. The second semester is devoted to the study of one of Shakespeare's plays and other works of fiction.

### **\* IB S2 English A1 (1835y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 English A1.*

The second of a two-year sequence, this is a continuation of the IB S1 A1 course. Through a study of challenging contemporary and classical literature, focus remains on the development and refinement of literary analysis, expository writing and oral delivery in preparation for the IB English A1 Standard exam. In addition, students continue to explore their creative response to texts studied. Students enrolled in this course will be expected to take the IB examination at the end of year 12

### **\*\*IB H2 English A1 (1840y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 English A1*

The second of a two-year sequence, this is a continuation of the first year course. Focus remains on the development and refinement of analytical skills though the consideration of thought-provoking literary texts. Oral and written responses to these texts provide ongoing opportunities to refine these skills in preparation for the IB A1 Higher exam in English. Students enrolled in this course will be expected to take the IB examination at the end of year 12

### **\*IB S2 English A2 (1855y)**

*1 year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 English A2*

In addition to reviewing selected units from IB S1 A2, this course will cover a Literary Option unit and a Topic Option unit in order to fulfill IB requirements for English A2 at the Standard level. Emphasis will be placed on preparing and delivering oral commentaries, writing analytical essays and commentaries, and completing creative assignments based on the materials covered. Students enrolled in this course will be expected to take the IB examination at the end of year 12

## **\*\*IB H2 English A2 (1850y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 English A2*

The second of a two-year sequence, this is a continuation of the first year course and prepares students for the IB English A2 exam. Students enrolled in this course will be expected to take the IB examination at the end of year 12

## **IB H2 English B (1845y)**

*One year – 1 credit*

*Grades 12*

*Prerequisite: Successful completion of IB H1 English B or teacher recommendation*

This is the second year of the IB English B Higher Level program. Emphasis is placed on the communicative demands of the English language, hence frequent speech assignments, both formal and informal, are included to improve communicative competence. In both years, the course aims to develop students' ability to assess subtleties of language in a wide variety of forms, styles and registers. Students enrolled in this course will be expected to take the IB examination at the end of year 12

## **\*\*AP Literature and Composition (1843y)**

*One year - 1 credit*

*Grade 12, Grade 11\**

*Prerequisite: English 11 or teacher recommendation*

Seniors passionate about literature will discover in this course texts from various genres, periods, and cultures--all sure to challenge their logic, creativity, insight, and technical skills. Designed for students intending to sit for the AP Literature and Composition examination, the course takes seriously its test-preparation purposes. But the general objectives of the course go beyond this short-term goal to enable students independently to analyze how literature works and to write effectively about their findings and to synthesize treatments of specific themes in a variety of works. Students will be expected to take the AP Literature and Composition examination at the end of this course.

\* AP Literature and Composition is open to all seniors and those juniors who have the support of their grade 10 English teacher.

## **\*\*AP Language and Composition (1830y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: English 11*

This class focuses on the rhetoric of public discourse. Students will study a broad range of non-fiction texts, in particular ones of political, philosophical or historical import. As they read authors such as Paine, Jefferson, Emerson, Thoreau and Orwell, students will gain an understanding of the interconnectedness of rhetoric and meaning, and how the former helps shape the latter. Students will hone their own abilities to write persuasively and convincingly on topics of public interest. Students will be expected to take the AP Language and Composition examination at the end of this course.

The chart below represents the typical sequencing of courses for the vast majority of our students. Sequencing may vary somewhat when students enter the program late or midyear or where progress at any stage suggests a change of direction. English department elective courses not included in the chart below are Creative Writing and Journalism.



*Each year, Grade 9 English students become travel writers, capturing in images and words their Project Week trips that span from Nepal to Australia.*

# English Support Programs

## LE Options

Designed with the language needs of the emergent bilingual student in mind, LE (language enhanced) courses are available for students who have achieved a qualifying score on the placement exam. The LE courses mirror as closely as practicable the content covered in the non-LE versions of the courses and serve the same preparatory function. The chief distinction between LE courses and their non-LE counterparts is the level at which language issues are engaged and addressed. A student's schedule at the LE level might look like this:

### **The LE credits are:**

English Basics LE (1 elective credit), English 9 LE (1), Asian Studies LE (1) and Experimental Sciences LE\* (1)

### **The remaining two or three credits may be chosen from:**

The Mathematics Department; The Visual and Performing Arts Department ; The Physical Education/Health Department; The Technology Department; and The Modern Languages Department

In English the two courses are:

## English 9 LE (1200y)

*One year - 1 credit*

*Grades 9, 10*

*Prerequisite: A qualifying score on the language proficiency/entrance test*

English 9 LE mirrors as closely as practicable the content covered in English 9 (see above) and serves the same preparatory function. The chief distinction between the two courses is the level at which language issues are engaged and addressed. In addition, students in English 9 LE will be taught strategies and skills to build their confidence in written and spoken English.

## English Basics LE (1030y)

*One year - 1 elective credit*

*Grades 9, 10*

*Prerequisite: A qualifying score on the language proficiency/entrance test*

This foundational course provides intensive English language instruction to students enrolled in the

LE program. Students continue to focus on the development of their spoken and written English, with special attention paid to vocabulary development and applied grammar. Secondly, the course is designed to provide support for the other LE courses.

## English 10 LE (1300y)

*One year – 1 credit*

*Grades 10, 11*

*Prerequisite: Successful completion of English 9 LE or a qualifying score on language proficiency/entrance test*

English 10 LE mirrors as closely as practicable the content covered in English 10 (see above) and serves the same preparatory function. The chief distinction between the two courses is the level at which language issues are engaged and addressed. In addition, students in English 10 LE will be taught strategies and skills to build their confidence in written and spoken English.

This course may also be taken as an elective:

## English for Academic Advancement (1400y)

(1 elective credit, not English credit).

This class is designed to support EAL students (English as an additional language) with oral, reading, and writing assessment pieces from core content areas. The class operates in a tutorial/workshop mode and success is largely determined by the student's growing ability to acknowledge and adhere to process. Students identify several major core projects per semester and are expected to break these assignments down into manageable steps that include timelines, spot checks, and on-going teacher feedback. Additionally, class time may be spent developing specific oral, reading, and writing skills that are integral to academic success. Some students may be assigned to the class while others may choose to enroll in English for Academic Advancement. This description is also listed in the Electives section.

\* For students with advanced science training, an accelerated placement exam is available. See the Science Dept. faculty or your counselor for details.

## Electives

These courses do not gain credit in a particular subject area (such as English, Technology, etc.), but credits gained do count towards graduation requirements (total 22 credits).

### Creative Writing (1625s)

One semester - 1/2 elective credit

Grades 10, 11, 12

Prerequisite: None

#### Semester 1: Creative Writing, Poetry

A one-semester course that introduces imaginative writing by focusing on the power of word and image, shape and punctuation in poetry. Students will try dozens of approaches, a few of which they will develop into published products. Although the course focuses on poetry, individual students may opt to work in prose. The course offers methodologies and techniques that can enable students to write better in any situation, imaginative or analytical, in their future.

#### Semester 2: Creative Writing, Narrative

A one-semester course that introduces imaginative writing by focusing on the development of plot, character and theme in personal, dramatic and fictional narratives. Students will try dozens of approaches, a few of which they will develop into

published products. Although the course focuses on prose narrative, individual students may opt to work in poetry. The course offers methodologies and techniques that can enable students to write better in any situation, imaginative or analytical, in their futures.

### Journalism (8385y)

One year - 1 elective credit

Grades 10, 11, 12

Prerequisite: Teacher approval, basic IT and keyboard skills

Students are involved as editors, reporters, photographers and artists with Feedback, the high school student newsmagazine. Units of study include news gathering, news writing, page design, typography, layout and student press law. Students will work with industry standard desktop-publishing and imaging software in producing five or six issues of the magazine each year.

The chart below represents the typical sequencing of courses for the vast majority of our students. Sequencing may vary somewhat when students enter the program late or midyear or where progress at any stage suggests a change of direction. English department elective courses not included in the chart below are Creative Writing and Journalism.

| Level or grade                                                                                                                                                                                                                                                                                                                                                     | Course titles                                                                          |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Grade 9</b><br>Note: For a description of the distinction between English 9 and English 9 LE, see "English Support Programs: LE options"                                                                                                                                                                                                                        | • English 9<br>or<br>• English 9 LE and English Basics LE                              |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                    | ↓                                                                                      |                                                                                                                        |
| <b>Grade 10</b><br>Note: For a description of the distinction between English 10 and English 10 LE, see "English Support Programs: LE options"                                                                                                                                                                                                                     | • English 10<br>or<br>• English 10 LE                                                  |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                    | ↓                                                                                      |                                                                                                                        |
| <b>Grade 11</b><br>Note: For the Grade 11 year, students may choose to begin their two-year course of study in the IB program. Non-IB students should enroll in English 11. Highly successful English 10 students, with their individual teacher's approval, may take AP Lit. and Comp. IB students will chose courses from the far right-hand side of this chart. | • English 11<br>• AP Lit. and Comp. (with English 10 teacher approval)                 | OR<br>• IBS1 English A1 or<br>• IBH1 English A1 or<br>• IBS1 English A2 or<br>• IBH1 English A2 or<br>• IBH1 English B |
|                                                                                                                                                                                                                                                                                                                                                                    | ↓                                                                                      | ↓                                                                                                                      |
| <b>Grade 12</b><br>Note: Upon successful completion of English 11, students may choose to enter English 12 or either of the AP courses listed to the right. The courses listed to the far right of this chart represent the second year of two-year IB courses begun in Grade 11.                                                                                  | • English 12 or<br>• AP Language and Composition or<br>• AP Literature and Composition | OR<br>• IBS2 English A1 or<br>• IBH2 English A1 or<br>• IBS2 English A2 or<br>• IBH2 English A2 or<br>• IBH2 English B |

# Mathematics

The goal of the Mathematics Department is to provide a program emphasizing the understanding of basic mathematical language, structure and principles to suit a wide range of ability levels. Homework is an essential component of every course, while, in addition, some courses require project and/or computer work. Calculators are required for all classes.

With the exception of Algebra and Geometry 1 and Progressive Mathematics, **all** courses require students to have a graphing calculator. Recommended models are as follows: **TI-83; TI-83 Plus; TI-83 Plus SE; TI-84 Plus, TI-84 Plus SE, or TI-Inspire**

## Introduction to Algebra and Geometry (AG) (5115y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

This is a basic mathematics course designed to prepare students for AG1. The course covers algebraic topics such as equations, inequalities, polynomials, factoring and graphing. An introduction to basic geometric concepts includes area, angles, polygons and parallel lines. The course provides time for students to strengthen their skills and become acquainted with the types of problems encountered in AG1. This course is not the same as Middle School (Grade 8) Pre-Algebra and Geometry.

## Algebra and Geometry 1 (AG1) (5120y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Introduction to Algebra and Geometry with at least a grade of "C"*

Topics in this course include ratio and proportion, simple linear equations, simple quadratic equations, basic factoring, inequalities, graphs of simple functions, Euclidean geometry (including parallel lines, congruent triangles, Pythagorean Theorem) and area and volume. Students will also be introduced to more advanced topics such as algebraic fractions. Various applications including word problems are also presented throughout the course.

## Progressive Mathematics (5125y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: AG1*

Students completing AG1 are offered this course as an alternative, before taking AG2. It will allow them to not only solidify their skills and understanding of AG1 concepts, but also to develop and be exposed to new concepts. Areas of study include: solving and graphing linear equations, number theory with extensions into factoring polynomials, perimeter, area and volume with 1-D/2-D and 2-D/3-D connections, statistics and an introduction to trigonometry. Applications are woven into all topics throughout the course.

## Algebra and Geometry 2 (AG2) (5220y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: AG1 with at least a grade of "C"*

This course continues the study of algebra and geometry from AG1, and proceeds to more advanced topics including polynomial expressions and factoring, graphs of linear functions, systems of linear equations, quadratic equations, exponents, sets, inequalities, triangles and quadrilaterals, circle geometry, similarity, probability, and statistics. Problems involving real world applications are presented in most topics throughout the course.

## Applied Math A (5130y)

*One semester – ½ credit*

*Grades 11, 12*

*Prerequisites: AG2. AA or AAT recommended*

*Note: Applied Math A and Applied Math B need NOT be taken together and/or sequentially*

The overall objective of this course is to prepare students for the 'real-world' math that awaits them after graduation. With this in mind; units during the first semester covered: reviewing percent applications, as well as basic numeration; comparing different methods of payment, with the focus on checking accounts; simple and compound interest, with a mini-project on applications of exponential growth/decay; deductive reasoning to solve problems; investment and the world of work.

### **Applied Math B (5140y)**

*One semester - ½ credit*

*Grades 11, 12*

*Prerequisites: AG2. AA or AAT recommended.*

*Note: Applied Math A and Applied Math B need NOT be taken together and/or sequentially*

Students will use one of the salaries of jobs researched and apply it to a personal budget with the focus on: buying a car, housing, car and health insurance, with special emphasis on the wise use of credit and avoiding the credit trap, while establishing a good credit score. There will also be a unit on basic statistics. This will then be applied to a culminating unit in which students will focus on developing a question, based on a specific topic from a previous unit, that they will answer through research and possibly a survey.

### **Advanced Algebra (AA) (5225y)**

*One year - 1 credit*

*Grades 10, 11, 12*

*Prerequisites: AG2*

This course is designed to cover advanced algebraic concepts that would normally be covered in AAT, but at a slower pace. Students who intend to take IB Math SL1 in their 11th grade year can take AA and enroll concurrently in Trigonometry in the second semester in order to meet the course prerequisites. See also Trigonometry as well as AAT. Students cannot get credit for both AA and AAT.

### **Trigonometry (5230s)**

*One semester - ½ credit*

*Grades 10, 11, 12*

*Prerequisites: 1 semester of AA with at least a "C" grade*

This course is designed to cover trigonometric concepts that would normally be covered in AAT, but at a slower pace. Students who intend to take IB Math SL1 in their 11th grade year can take AA and enroll concurrently in Trigonometry in the second semester in order to meet the course prerequisites. See also AA and AAT.

### **Advanced Algebra and Trigonometry (AAT) (5240y)**

*One year - 1 credit*

*Grades 10, 11, 12*

*Prerequisites: AG2 with at least a "B-" grade*

This course is for students intending to take Pre-Calculus and higher level IB math. Quadratic and higher-order functions are studied in detail, with a systematic development from rational to irrational to complex numbers. Trigonometric topics will include circular functions, radian measure, graphs, identities and formulas, and equations. Exponential and logarithmic functions will also be introduced. The course also exposes students to the process of mathematical investigation on topics such as quadratic functions, matrices, continuously compounded interest and polynomial functions. The purpose of the exposure is twofold: firstly as a means for students to construct their own knowledge and understanding of math concepts (in a structured and guided fashion) and secondly to prepare them for IB portfolio work. See also AA as well as Trigonometry for alternatives to this rigorous and fast paced course.

### **Functions, Statistics and Trigonometry (FST) (5250y)**

*One year - 1 credit*

*Grades: 11, 12*

*Prerequisites: AA or AAT*

This course is designed to help students completing Advanced Algebra to be better prepared for Pre-Calculus or equivalent course. As such, the course includes a full treatment of Trigonometry (on a par with that offered in the semester course for Trigonometry) and additionally, focuses on exposing students to advanced elements of functions and statistics in order to give them the confidence and ability to cope well with these topics at the higher levels. Other topics covered include: polynomial functions and inequalities, probability, regression, sequences and series, and logarithms and exponents.

### **Pre-Calculus (5320y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisites: AAT with at least a "B-" grade or AA + Trigonometry with at least an "A-" grade in each or FST with at least a B+*

Students in Pre-Calculus expand their knowledge of polynomial equations and functions, complex numbers, exponential and logarithmic functions, analytic geometry and advanced trigonometry. Other topics include vectors, descriptive statistics, combinatorics and probability, sequences and series, polar coordinates and limits. The emphasis of the course is on the analysis of functions and their properties.

### **IB Mathematical Studies SL1 (5815y)**

*One Year – 1 credit*

*Grade 11 only*

*Prerequisites: Progressive Math or AG2*

This is the first year of a two-year program. This course is designed for the university bound student who will be pursuing a career requiring basic mathematics. The analytical and problem-solving skills necessary to cope with the demands of a technological society are emphasized in this course. A mathematical project is a major component of the course. Eight compulsory topics will be studied during the program. Topics covered during the first year include an introduction to the graphic display calculator, number and algebra, trigonometry, statistics and financial mathematics.

### **IB Mathematical Studies SL 2 (5820y)**

*One Year – 1 credit*

*Grade 12*

*Prerequisites: IB Mathematical Studies SL 1*

This course continues the work of Math Studies SL1. Internal assessment is an essential feature of this course - students will develop an individual piece of work involving the collection of information or the generation of measurements, and the analysis and evaluation of the information or measurements for a major project. Topics studied during this course include sets, logic and probability, financial mathematics, trigonometric graphs and introductory differential calculus. All students are required to sit the external IB examination in May.

### **\*IB Math SL 1 (5805y)**

*One year - 1 credit*

*Grade 11, 12*

*Prerequisites: AA + Trigonometry with at least a "B+" grade or AAT with at least a "C" grade*

This course is the first year of a two-year program leading to the external IB examination. In the first year, the topics studied are functions, sequences and series, trigonometry, the binomial theorem, exponents and logarithms, statistics and vectors. Internal assessment is an integral part of this course, and to meet IB requirements, the student will complete two "portfolio" items this year.

### **\*\*AP Statistics (5850y)**

*One year – 1 credit*

*Grade 12*

*Prerequisites: Pre-Calculus with at least a "C" grade or Teacher recommendation for student coming from a different course*

The course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics include univariate and bivariate data, correlation, random variables and sampling, probability and simulation models, probability distributions (including the normal and t-distributions), confidence intervals and tests of significance. The course adheres to the philosophy and methods of modern data analysis, and students will use computers and graphics calculators extensively as tools for structured inquiry. The student is required to sit the external AP Statistics examination in May.

### **\*\* IB Higher Math 1 (5830y)**

*One Year – 1 credit*

*Grade 11*

*Prerequisites: AAT with at least a "B" grade*

This demanding course is the first year of a two-year program leading to an external IB examination. Internal assessment is an integral part of this course, and the student builds up a portfolio of work over the two years. First year course topics include functions, sequences and series, the binomial theorem, complex numbers, induction, logarithms, exponential functions and differential and integral calculus.

**\*IB Math SL 2 (5810y)**

*One year – 1 credit*

*Grade 12*

*Prerequisites: IB Math SL 1*

This course continues the work of Math SL 1. Internal assessment is an essential feature of this course and students will continue to build on the portfolios that they established previously in Math SL 1. Topics studied include vectors, probability and further differential and integral calculus. All students are required to sit the external examination in May.

**\*\*AP Calculus AB (5410y)**

*One year – 1 credit*

*Grade 12*

*Prerequisites: Pre-Calculus with at least a "B-"*

Calculus topics include limits, derivatives of polynomial, trigonometric, exponential and logarithmic functions and applications of derivatives to optimization and related rates. Students are also introduced to integral calculus including applications to area, volume and differential equations. The student is required to sit the AP Calculus AB examination in May.

**\*\*AP Calculus BC (5420y)**

*One year – 1 credit*

*Grade 12*

*Prerequisites: Pre-Calculus with a "B". TI-83; TI-83 Plus; TI-83 Plus SE; TI-84 Plus or TI-84 Plus SE graphing calculator required*

Calculus BC covers all the topics listed in Calculus AB as well as areas bounded by polar coordinates, vector functions, tangents to parametric curves and repeated integration by parts. Also, improper integrals, length of path, sequences and series, convergence, power series and Taylor series are covered. Applications of topics are included. The student is required to sit the AP Calculus BC exam in May.

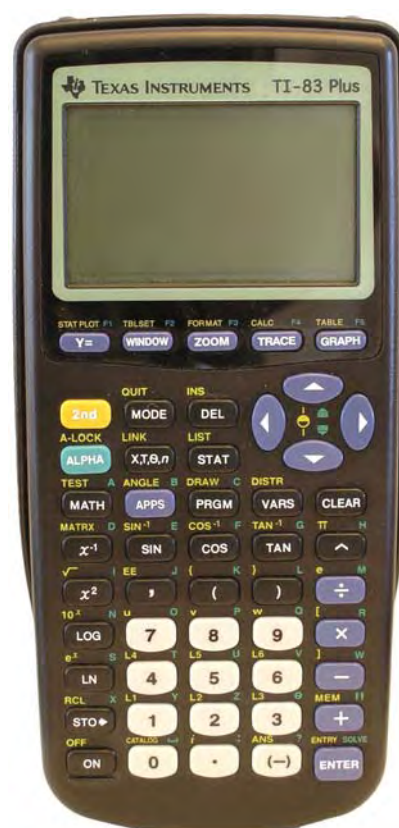
**\*\*IB Higher Math 2 (5840y)**

*One year – 1 credit*

*Grade 12*

*Prerequisites: IB Higher Math 1*

This course continues the work of IB Higher Math 1. Internal assessment is an essential feature of this course, and students will continue to build on the portfolios they established previously in IB Higher Math 1. Topics studied, include vectors, matrices, probability and statistics, and an IB option topic. All students are required to sit the external examination in May.



## Modern Languages

The Modern Language Department's goal is to develop the four basic skills involved in language learning – listening comprehension, speaking, reading and writing – and to familiarize the students with aspects of the life and civilization of other countries. In native speaker classes, students are given the opportunity to study literature.

IB courses in both group 1 (for native speakers) and group 2 (or foreign learners) are offered. For students new to JIS, placement in language courses above first year is based on the recommendation of the language teacher.

**WARNING:** Given the changes affecting the Language B program as of school year 2010-11, students currently enrolled in level 4 are recommended to talk to their teacher to find out about their most appropriate course choice.

## French

### **French 1 (3105y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

This course provides an introduction to French with practice in listening comprehension, speaking, reading and writing skills. By the completion of the year, students are expected to understand simple questions and directions given orally and to be able to respond in French. They are to master basic grammatical structures and write short paragraphs. The course utilizes videos, listening comprehension devices and other materials deemed appropriate. The program encourages cultural awareness through additional material, such as films and background information.

### **French 2 (3110y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Successful completion of French 1*

This course is a review and a continuation of French 1. Oral communication is stressed through group activities, exercises, presentations and role-play.

Greater emphasis is placed on reading and writing skills. By the end of the year, students are expected to speak and understand spoken and written French at a mid-novice level of proficiency.

### **French 3 (3120y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Successful completion of French 2*

The emphasis of this course is on oral work and listening comprehension. Students give oral presentations in French. Grammatical structures are strengthened. Authentic material in the French language is regularly used and short compositions are written.

### **French 4 (3125y).**

*One year- 1 credit*

*Grade 10*

*Prerequisite: Successful completion of French 3*

This course is highly recommended for students who want to take the IB Higher Level French B course in the following years. The goals are to increase vocabulary, develop oral fluency, consolidate grammatical structures and introduce formal essay writing. The course is also designed to familiarize students with topics related to the culture of France

### **\*IB S1 French B (3839y)**

*One year – 1 credit*

*Grade 11.*

*Prerequisite: Successful completion of French 3/  
French 2 with teachers' recommendation*

This course is the first year of the 2-year IB Standard Level French course. The goals are to increase vocabulary, develop oral fluency, consolidate grammatical structures and practice formal essay writing. The course is also designed to familiarize students with topics related to the culture of France

### **\*IB S2 French B (3840y).**

*One year - 1 credit*

*Grade 12*

*Prerequisite: Successful completion of French 4 or  
IBH1French B*

This is the second year of the 2-year IB Standard Level French course. The main focus of this course

is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written and spoken material. Students will be taught how to recognize the communicative purpose of the texts and how to respond appropriately to them. They should show awareness of, and sensitivity to some elements of French culture. The course is a preparation to the IB French B Standard Level exam.

### **\*\*IB H1 French B (3845y)**

*One year - 1 credit*

*Grade 11*

*Prerequisite: Successful completion of French 4*

The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written, spoken, literary and non-literary material. Students will be taught how to recognize and analyze the communicative purpose of the texts and how to respond appropriately to them. They should also show sensitivity to both French culture and literature. The course is a preparation for both the IB French B SL and HL exams.

### **\*\*IB H2 French B (3850y)**

*One year - 1 credit*

*Grade 12*

*Prerequisite: Successful completion of IB H1 French B*

The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written, spoken, literary and non-literary material. Students will be taught how to recognize and analyze the communicative purpose of the texts and how to respond appropriately to them. They should show sensitivity to both French culture and literature. The course is a preparation for the IB French B HL exam.

## **Indonesian**

### **Indonesian Studies (3335s)**

*One Semester - ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

This course (or any other Indonesian Language course) is required for graduation. The students study about the country in which they live. This includes an introduction to Bahasa Indonesia and to Indonesian geography, history, and the culture and customs of this country.

### **Indonesian 1 (3305y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

This is a more demanding course than Indonesian Studies and should only be considered by those students who have a serious interest in the study of the Indonesian Language.

This course includes practice in listening comprehension as well as speaking, reading and writing skills. By the end of the year, students are to master basic grammatical structures, write short compositions and be able to express themselves orally at a mid-novice level of proficiency. The program also encourages cultural awareness supplemented with additional materials.

### **Indonesian 2 (3310y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Indonesian I (HS) or Indonesian 1B (MS)*

This course is a continuation of Indonesian 1. This course will introduce more complex grammatical structures, develop oral fluency, familiarize students with more demanding reading materials, and further essay writing techniques in preparation for Indonesian B (Standard and Higher) courses.

### **\*IB S Indonesian Ab Initio (3882y)**

*One year - 1 credit*

*Grade 11 only.*

*Exam in November of the 12th grade*

This is the second year of the two-year Ab Initio program. The first year of the course is completed as part of the Indonesian 1 program. The course prepares students for the IB Ab Initio Indonesian Standard Level exam and is only open to IB Diploma candidates upon completion of Indonesian I or for students new to JIS. The main focus of the course is to develop a variety of linguistic skills and a basic awareness of the culture using the language.

**WARNING 1:** Students will have to take this course in grade 11. The exam will take place in November of the 12th grade.

**WARNING 2:** Indonesian ab initio is being phased out and November 2011 will be the last IB exam session. This means:

- Students currently in grade 9 should NOT be selecting Indonesian 1 for 10th grade (with the aim of taking 'Indonesian ab initio' as grade 11's).
- Tenth grade students currently in Indonesian 1 and aiming to take 'Indonesian Ab Initio' in grade 11 (SY 2010/11) will be "grandfathered" and will take the exam in November 2011 (their senior year).

### **Indonesian 3 (3311y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Successful completion of Indonesian 2 (MS or HS)*

The emphasis of this course is on speaking, reading and writing. Students give oral presentations in Indonesian. Grammatical structures are strengthened. Authentic material in the Indonesian language is regularly used and short compositions are written.

### **Indonesian 4 (3312y)**

*One year-1 credit*

*Grade 10*

*Prerequisite: Successful completion of Indonesian 3*

This course is highly recommended for students who want to take IB Higher Level B course the following years. The goals are to increase vocabulary, develop oral fluency, consolidate grammatical structures and introduce formal essay writing. The course is also designed to familiarize students with topics related to the culture of Indonesia.

### **\*IB S1 Indonesian B (3881y)**

*One year – 1 credit*

*Grade 11*

*Prerequisite: successful completion of Indonesian 3/ Indonesian 2 with teacher's recommendation.*

This course is the first year of the Indonesian B Standard Level course. This course prepares the students to the exam by exposing them to more complex material, increasing vocabulary,

developing oral fluency, consolidating grammatical structure and introducing formal essay writing. The course is also designed to familiarize students with topics related to the culture of Indonesia.

### **\*IB S2 Indonesian B (3880y).**

*One year – 1 credit*

*Grade 11, 12*

*Prerequisite: Successful completion of Indonesian 4*

The course is both the second year of the Indonesian B IB Standard level course and the first year of the Indonesian B Higher Level course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written and spoken material. Students will be taught how to recognize the communicative purpose of the texts and how to respond appropriately to them. They should show awareness of, and sensitivity to, some elements of the culture related to the language studied. Students may be required to participate in a field trip at a cost of Rp. 500.000.

### **\*\*IB H Indonesian B (3885y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Successful completion of Indonesian IB S Indonesian B course*

The course is a preparation for the Indonesian B Higher Level exam. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written, spoken, literary and non-literary material. Students will be taught how to recognize and analyze the communicative purpose of the texts and how to respond appropriately to them. They should show an awareness of, and sensitivity to, the cultures related to the language studied. Students may be required to participate in a field trip at a cost of Rp. 500.000.

### **Indonesian Language, Literature and Composition 1 (3320y)**

*One year - 1 credit.*

*Grade 9*

*Prerequisite: A satisfactory standard of Indonesian Language, as determined by the teacher*

This course is intended to meet the needs of

students who are native or near native Indonesian speakers. Students who are in grade 9 and need to prepare for the A1 Standard or Higher Indonesian course are recommended to take this course after Middle School classes. Emphasis is placed on oral communication, reading, writing and analysis of texts.

### **Indonesian Language, Literature and Composition 2 (3325y)**

*One year - 1 credit.*

*Grade 10*

*Prerequisite: Completion of Indonesian language, Literature and Composition 1, or teacher recommendation*

This course is the second year of the two year program in preparation for the IB A1 Indonesian courses. Emphasis is placed in oral communication, reading, writing and analysis of texts and media.

### **\*IB S1 Indonesian A1 (3878y)**

*Grade 11*

*One year – 1 credit*

*Prerequisite: A satisfactory standard of Indonesian, both in language and literature, as determined by the teacher or completion of Indonesian Language, Literature and Composition*

This literature course is the first year of a two-year program in preparation for the IB examination at the end of the second year. It is also open to students not intending to take the examination. Indonesian authors and texts of world literature in translation representing different periods and styles are studied. The works cover the genres of prose, poetry and drama. The course includes the writing of essays on literary topics, oral presentations, and oral and written commentaries.

### **\*\*IB H1 Indonesian A1 (3875y)**

*One year – 1 credit*

*Grade 11*

*Prerequisite: A satisfactory standard of Indonesian, in both language and literature, as determined by the teacher or completion of Indonesian Language, Literature, and Composition*

This literature course is part of a two-year program in preparation for the IB examination at the end of the second year. It is also open to students not intending to take the examination.

The course is structured on the same principles as, and will be offered in conjunction with the A1 Standard course, however, it requires the study of more works and a higher degree of competence is required.

### **\*\*IB H2 Indonesian A1 (3876y)**

*One year, one credit*

*Grade 12*

*Prerequisite: Successful completion of IB H1 Indonesian A1*

This literature course is the second course of the two-year program of advanced Indonesian in preparation for the IB examination at the end of the year. The course requires the study of more works, and a higher degree of competence is expected than at the Standard Level.

### **\*IB S2 Indonesian A1 (3879y)**

*One year - 1 credit*

*Grade 12*

*Prerequisite: Successful completion of S1 Indonesian A1 or, in the case of new students, a satisfactory standard of Indonesian, both in language and literature, as determined by the teacher*

The course is continuation of the first year course and provides further training in the skills described under S1 Indonesian A1. In the second semester, the focus will be on preparation for the oral and written examination.

## **Japanese**

### **Japanese 1 (3405y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

This course provides an introduction to Japanese with practice in listening comprehension, speaking, reading and writing the hiragana and katagana systems skills. By the completion of the year, students are expected to understand simple questions and directions given orally and to respond in Japanese. They are to master basic grammatical structures and write short paragraphs. The course utilizes videos, listening comprehension devices and other materials deemed appropriate. The program encourages cultural awareness through additional material such as films and background information.

**Japanese 2 (3410y)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite: Successful completion of Japanese 1 or sufficient knowledge of Japanese, as determined by the teacher*

This course is a review and a continuation of Japanese 1. Oral communication is stressed through group activities, exercises, presentations and role-play. Greater emphasis is placed on reading and writing skills. By the end of the year, students are expected to speak and understand spoken and written Japanese at a mid-novice level of proficiency. The essential 100 kanjis will be introduced.

**\*IB S1 Japanese B (3896y)***One year – 1 credit**Grade 11**Prerequisite: Successful completion of Japanese 2 or sufficient knowledge of Japanese, as determined by the teacher*

This course is a continuation of Japanese 2 and is the first year of the Japanese B Standard Level course. Its approach is similar to Japanese 2, but with much more emphasis on complex grammar structures. It will also further develop oral fluency, a greater richness of vocabulary and different types of writing styles. Students will have learnt 300 kanjis by the end of this course. The course is designed to familiarize students with topics related to the culture of Japan.

**\*IB S2 Japanese B (3899y)***One year – 1 credit**Grade 12**Prerequisite: Successful completion of Japanese 3 or equivalent*

The course is a preparation for the Japanese B Standard Level exam. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written and spoken material. Students will be taught how to recognize the communicative purpose of the texts and how to respond appropriately to them. They should show awareness of, and sensitivity to, elements of the culture related to the language studied.

**\*IB S1 Japanese A1 (3890y)***One year 1 credit**Grade 11**Prerequisite: a satisfactory standard of Japanese, both in language and literature, as determined by the teacher.*

This literature course is part of a two-year program in preparation for the IB examination at the end of the second year but is also open to students not intending to take the examination. Japanese authors and texts of world literature in translation representing different periods and styles are studied. The works cover the genres of prose, poetry and drama. The course includes the writing of essays on literary topics, oral presentations, and oral and written commentaries.

**\*IB S2 Japanese A1 (3895y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of S1 Japanese A1 or, in the case of new students, a satisfactory standard of Japanese, both in language and literature, as determined by the teacher*

The course is a continuation of the first-year course and provides further training in the skills described under S1 Japanese A1. In the second semester, the focus will be on preparation for the oral and written examination.

## Korean

**\*IB S1 Korean A1 (3900y)***Grade 11**One year – 1 credit**Prerequisite: a satisfactory standard of Korean, both in language and literature, as determined by the teacher.*

This literature course is a two-year program in preparation for the IB examination at the end of the second year but is also open to students not intending to take the examination. Korean authors and texts of world literature in translation representing different periods and styles are studied. The works cover the genres of prose, poetry and drama. The course includes the writing of essays on literary topics, oral presentations, and oral and written commentaries.

### **\*IB S2 Korean A1 (3905y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Successful completion of S1 Korean A1, or in the case of new students, a satisfactory standard of Korean , both in language and literature, as determined by the teacher*

The course is a continuation of the first-year course and provides further training in the skills described under IB S1 Korean A1. In the second semester, the focus will be on preparation for the oral and written examination.

## **Mandarin**

### **Mandarin 1 (3605y)**

*One year – One credit*

*Grades 9, 10, 11, (12)*

*Pre-requisite: None*

This course provides an introduction to the Mandarin language with practice in listening comprehension, speaking, reading and writing the Mandarin characters. By the completion of the year, students are expected to understand simple questions and directions and to be able to respond in Mandarin. They are expected to master basic grammar structures and write short paragraphs. The course utilizes videos, listening comprehension devices and other material deemed appropriate. The program also encourages cultural awareness through additional material, such as film.

### **Mandarin 2 (3610y)**

*One year, one credit*

*Grades 9,10,11,12*

*Prerequisite: Successful completion of Mandarin 1*

This course is a review and continuation of Mandarin I. Oral communication is stressed through group activities, exercises, presentations and role-play. Emphasis is placed on reading and writing Mandarin characters. By the end of the year, students are expected to speak and understand spoken and written Mandarin at a pre-intermediate level of proficiency. The course encourages cultural awareness through additional material deemed appropriate.

### **Mandarin 3 (3615y)**

*One year, one credit*

*Grades 9,10,11,12*

*Prerequisite: Successful completion of Mandarin 2*

This course is a continuation of Mandarin 2 and is recommended for those students who want to continue the study of Mandarin. Emphasis is placed on complex grammar structures, oral fluency development, richness of vocabulary and Mandarin characters. The course is also designed to familiarize students with topics related to the culture of China.

### **Mandarin 4 (3620y)**

*One year – 1 credit*

*Grade 10*

*Prerequisite: Successful completion of Mandarin 3*

The goals are to increase vocabulary, develop oral fluency, consolidate grammatical structures and introduce formal essay writing. The course is also designed to familiarize students with topics related to the culture of China.

### **\*IB S1 Mandarin B (3629y)**

*One year – 1 credit*

*Grade 11*

*Prerequisite: Successful completion of Mandarin 3/Mandarin 2 with teacher's recommendation*

This course is the first year of the IB Mandarin B Standard Level course. The goals are to increase vocabulary, develop oral fluency, consolidate grammatical structure and introduce formal essay writing. The course is also designed to familiarize students with topics related to the culture of China.

### **\*IB S2 Mandarin B (3630y)**

*One year - 1 credit*

*Grades 11, 12*

*Prerequisite: Successful completion of Mandarin 4*

The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written and spoken material. Students will be taught how to recognize the communicative purpose of the texts and how to respond appropriately to them. They should show awareness of, and sensitivity to some elements of Chinese culture. The course is a preparation to the IB Mandarin B Standard Level exam.

# Spanish

## Spanish 1 (3505y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

This course provides an introduction to Spanish with practice in listening comprehension, speaking, reading and writing skills. By the completion of the year, students are expected to understand simple questions and directions given orally and to be able to respond in Spanish. They are to master basic grammatical structures and write short paragraphs. The course utilizes videos, listening comprehension devices and other materials deemed appropriate. The program encourages cultural awareness through additional material, such as films.

## Spanish 2 (3520y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Successful completion of Spanish 1*

This course is a review and continuation of Spanish I. Oral communication is stressed through group activities, exercises, presentations and role-play. Emphasis is placed on reading and writing skills. By the end of the year, students are expected to speak and understand spoken and written Spanish at a pre-intermediate level of proficiency.

## IB S1 Spanish Ab Initio (3514y)

*One year-one credit*

*Grade 11*

*Prerequisite: None*

This is the first year of the two- year Ab Initio program. This course is meant for IB Diploma candidates without prior Spanish learning experience. The main focus of the course is to develop a variety of linguistic skills and a basic awareness of the culture and also to prepare for the IBS Spanish Ab Initio exam.

## \*IB S2 Spanish Ab Initio (3515y)

*One year-one credit*

*Grade 12*

*Prerequisite: Completion of Spanish 1*

This is the second year of the two year Ab Initio program. The main focus of the course is to develop a variety of linguistic skills and a basic awareness of the culture and also to prepare for the IBS Spanish Ab Initio exam.

## Spanish 3 (3525y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Successful completion of Spanish 2*

The emphasis of this course is on oral work and listening comprehension. Students give oral presentations in Spanish. Grammatical structures are strengthened. Authentic material in the Spanish language is regularly used and short compositions are written.

## Spanish 4 (3530y)

*One year-1 credit*

*Grade 10*

*Prerequisite: Successful completion of Spanish 3*

This course is highly recommended for students who want to take IB Higher Level B course the following years. The goals are to increase vocabulary, develop oral fluency, consolidate grammatical structures and introduce formal essay writing. The course is also designed to familiarize students with topics related to the culture of Spanish-speaking countries.



### **\*IB S1 Spanish B (3909y)**

*One year – 1 credit*

*Grade 11*

*Prerequisite: Successful completion of Spanish 3/Spanish 2 with teacher's recommendation*

This course is the first year of the IB Spanish B Standard level course. The goals are to increase vocabulary, develop oral fluency, consolidate grammatical structure and introduce formal essay writing. The course is also designed to familiarize students with topics related to the culture of Spanish-speaking countries.

### **\*IB S2 Spanish B (3910y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: Successful completion of Spanish 4*  
*Warning: Students will not be allowed to take the IB Spanish B exam in grade 11.*

The course is the second year of the IB Spanish B Standard Level course and the first year of the IB Spanish B Higher level course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written and spoken material. Students will be taught how to recognize the communicative purpose of the texts and how to respond appropriately to them. They should show awareness of, and sensitivity to, some elements of the culture related to the language studied.

### **\*\*IB H Spanish B (3915y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Successful completion of IB S Spanish B*

The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written, spoken, literary and non-literary material. Students will be taught how to recognize and analyze the communicative purpose of the texts and how to respond appropriately to them. They should also show an awareness of, and sensitivity to, the culture related to the language studied.

## **Mother Tongue**

### **\*IB S1 Mother Tongue (3920y)**

*One year – 1 credit*

*Grade 11*

*Prerequisite: A "native speaker-like" proficiency in the target language as evaluated by the Mother Tongue coordinator in view of the student background*

The course is designed to allow students to study works of literature in their mother tongue. The first year of the course focuses on the study of world literature while the second year focuses on exam techniques and allows for more individual work under the supervision of the Mother Tongue Coordinator. In both years the instruction takes place in English but the reading, as well as speaking and writing assessments are done in the target language. Assessment is done by outside markers under the supervision of the Mother Tongue Coordinator. This 2-year course is a preparation for the Language A1 Self-Taught exam.



# Physical Education and Health

The Physical Education and Health Department believes that every student should strive to attain the skills for life-long wellness. In our rapidly changing society, there is an increasing awareness of the importance of developing a healthy lifestyle. These courses will allow the students to develop a balance between their social, mental and physical well-being. To this end, the physical education and health courses complement each other.

## Health (7250s)

*One semester 1/2 credit*

*Grade 10*

*Prerequisite: None*

This is a one-semester course required for JIS graduation. The course is designed to help students develop a sense of personal and social responsibility for their lifestyle decisions. The class provides accurate up-to-date information about health issues and promotes an understanding of choices and their consequences. The development of communication, problem solving and decision making skills are integrated into topics such as nutrition, relationships, human sexuality, disease and substance abuse. This course explores different cultural values and expectation, but more importantly helps students decide/confirm their own life goals, values and the importance of developing self concepts and esteem.

## Physical Education Survey (7150y)

*One year – 1 credit*

*Grade 9*

*Prerequisite: None*

This is a two-semester course required for JIS graduation. It aims to have all students experience success and enjoyment as they actively participate in a diverse range of physical activities. Some of the units offered include badminton, basketball, football, softball, volleyball, social dance, fitness for life, swimming and life-saving. The course is designed to improve personal fitness, develop movement skills and positive attitudes needed to understand, value and commit to an active and healthy lifestyle.

# PE and Health Electives

The Physical Education and Health Department offers students who have successfully completed the required High School Survey course the opportunity to choose from a variety of wellness electives. These courses will enable the student to further develop important lifeskills and concentrate on elected activities to a degree which is impossible during the required Survey and Health courses. The courses are conducted on a semester basis, as indicated. This gives the student the unique opportunity to build on their existing knowledge and skills.

## Personal Training and Conditioning I (7350s)

*One semester - 1/2 credit (may be repeated for credit for two semesters)*

*Grades 10, 11, 12*

*Prerequisite: Physical Education Survey*

This one-semester course covers many aspects of physical fitness, weight training, conditioning and nutrition. Students not only learn about the concepts of weight training and personal physical fitness, but they also apply these concepts to their own personal fitness goals. Students learn the correct use of the weight machines, free weights and aerobic equipment. Students learn about the main muscle groups and the best ways to develop these. The course also focuses on various nutritional and weight control programs.



## **Personal Training and Conditioning II (7501s)**

### **\*NEW COURSE \***

*One semester - 1/2 credit (may be repeated for credit for two semesters)*

*Grades 10, 11, 12*

*Prerequisite: Completion of Personal Training and Conditioning I*

Students will review and demonstrate all the fundamentals of Personal Training I before beginning the Personal Training II. This more advanced course will concentrate on larger strength gains and more advanced lifts. Lifting form is still emphasized however a shift to more intensity (work load/overload) in the lifting program will be necessary to achieve larger strength gains. A crucial development will be for students the know how to periodize their training as part of a year-round program. Students will also learn what they need to address nutritionally before and after training.

## **Independent Living (7502s) \*NEW COURSE\***

*One semester – ½ credit*

*Grades 10, 11, 12 - priority given to upper classmen*

*Prerequisite: None*

This fun, practical, course is for Grade 11 and 12 students to learn the basic survival skills for your independent life after JIS; skills such as car and bike maintenance, cooking, laundry and sewing. You will understand and practice how to check the oil, change the tires, keep a budget balance etc. You will also understand more of consumer choices including food shopping, medical health choices and banking. The underlying goal is to help you with some transition skills that would be required for independent life away from home.

## **First Aid & CPR Certified Course (7503s)**

### **\*NEW COURSE\***

*One Semester – ½ credit*

*Grades 10, 11, 12*

*Prerequisite: None*

The intention of this First Aid Course is to give you skills so that you can handle any emergency situation safely and with confidence. It consists of a series of simple and in some cases, potentially life-saving techniques including patient and scenario assessing; ABC of basic life support; performing CPR and Certification; demonstrate

use of an automated external defibrillator and use of oxygen, some wilderness, environmental or water safety emergencies; sports injuries and taping. All certification in Resuscitation and First Aid will be done by external examiners and would be an excellent addition to any CV. On a required class field trip you will experience various practical scenarios to make decisions and take action and management emergency situations and trauma. There will be a cost of approximately \$150.00 to cover the cost of the field trip and the certification. You will also have an opportunity to share these skills and teach younger PIE students.

## **Adventure Leadership (7504s) \*NEW COURSE\***

*One semester – ½ credit*

*Grades 10, 11, 12*

*Prerequisite: Physical Education Survey*

The course is designed to immerse students in a variety of adventure based activities that will enhance their leadership and problem solving skills and their ability to work as part of a team. The essence of Adventure programming is teaching the basics of communication, cooperation and trust within a fun and safe environment. The course will challenge students individually and in a team through games, initiatives, and low and high rope activities. An additional part of the course is an overnight at a high ropes adventure site (at an additional cost) to practice their new acquired skills. Students will lead, create, think outside of the box and step out of their comfort zones.

## **Racket Sports (7360s)**

*One semester - 1/2 credit (may be repeated for credit for two semesters)*

*Grades 10, 11, 12*

*Prerequisite: Physical Education Survey*

This course provides students with an opportunity to develop their skills in tennis and badminton. All ability levels are accommodated in the course. In tennis the students will learn the Eastern Forehand, Eastern Backhand, volley, serve and overhead. In badminton the students will learn the overhand and underhand clear, short and long serve, drop shot and smash. During class the rules and strategies for single and doubles tennis and badminton will be addressed. At the end of each unit the students will participate in a small in-school tournament.

### **Lifetime Sports and Fitness (7370s)**

*One semester – ½ credit (may be repeated for credit for two semesters)*

*Grades 10, 11, 12*

*Prerequisite: Physical Education Survey*

This fun course is for students who enjoy being active and are interested in trying different sports other than what is offered in the athletics program. Students have the opportunity to participate in a variety of recreational activities that can be continued throughout life i.e. rock climbing, table tennis, golf, ultimate Frisbee, and eco/adventure racing. Students will also assess and develop their health related physical fitness. A highlight of the course is a required overnight field trip to an adventure centre where students will experience a high/low ropes course and other exciting outdoor educational activities (cost TBA). No prior experience is necessary.

### **Fitness for Life (7395s)**

*One semester- 1/2 credit (may be repeated for credit for four semesters)*

*Grades 10, 11, 12*

This course is designed to meet the needs of students who wish to improve and develop their physical well being through participation in a variety of contemporary fitness programs. Activities such as yoga, pilates, circuit training, Tae Bo and body pump will be included in this course. Students will get the opportunity to improve their core strength, muscle tone, flexibility and over all fitness levels. There is also an opportunity to visit a local fitness centre which offers a wide and modern variety of studio, instructor lead sessions. This class will provide the opportunity for members to evaluate their personal fitness, identify their strengths and areas for improvement and then set personal goals which will contribute to a lifetime of health and wellness. No prior experience necessary.

### **Aquatics (7380s)**

*One semester - 1/2 credit (may be repeated for credit for two semesters)*

*Grades 10, 11, 12*

*Prerequisite: PE Survey*

This elective is very much a "skills for life" course. Swimming to improve strokes and fitness, water polo and life-saving represent the major skill areas covered. Learning about water safety and life saving skills can lead to external life-saving and CPR certification. Scuba diving, snorkeling, kayaking and underwater hockey are included in the program, with the possibility of surfing, sailing, windsurfing or white water rafting. One of the course highlights is a required field trip that is a smorgasbord of aquatic recreational events in an open water environment (cost of approx. U.S. \$150.00 - \$200). The course is only offered in first semester due to availability of the pool.

### **Team Sports (7385s)**

*One semester - 1 /2 credit (may be repeated for credit for two semesters)*

*Grades 10, 11, 12*

*Prerequisite: Physical Education Survey*

This course provides students with an opportunity to exercise and socialize in a non-stressful, active environment. This course offers students the potential to enhance self leadership skills by developing skills in judgment, team building, decision-making and problem solving. Throughout the semester students learn skill analysis and team strategies in a variety of team sports, which could include basketball, volleyball, touch rugby, soccer and softball. Students will improve or maintain their personal levels of fitness, while fine-tuning their athletic skills and developing new relationships.

## Science

The Science Department believes that every student should be able to understand, use and communicate the ideas and concepts of science. In addition, it is the intent of the science program to develop in students an awareness of the relationship between the different branches of science and of the role science plays in society.

As it has been agreed by the High School to offer IB SL courses over two years in grades 11 and 12, this is the last year that the Core classes will be offered in their current format.

### Experimental Sciences (6110y)

*One year – 1 credit*

*Grades 9*

*Prerequisite: None*

Experimental Sciences is in sequence with the Middle School courses at JIS, and is a prerequisite for all other high school science courses. It is usually the first high school science course a student is likely to take, unless transferring into JIS from another school with appropriate credit. Experimental Sciences is a science course encompassing Physics, Chemistry, Biology, and Environmental Science. Strong emphasis is placed on laboratory work, experimental designs, data collection and processing, and the development of some basic laws of science from data and observations. In addition, emphasis is placed on accurate reporting of experimental work.

### Experimental Sciences LE (6115y)

*One year – 1 credit*

*Grades 9*

*Prerequisite: None*

Experimental Sciences LE mirrors as closely as practicable the content covered in Experimental Sciences (see above) and serves the same preparatory function. The chief distinction between the two courses is the level at which language issues are engaged and addressed.

### Biology College Preparatory (6220y)

*One year – 1 credit*

*Grades 10, 11, 12*

*Prerequisite: Experimental Sciences.*

This course serves as a one-year biology course covering from molecule to man. Instruction relies heavily on laboratory work and places stress on the development of critical reasoning in students. Biology CP covers areas such as Biochemistry, Cell Structure, Genetics, Energy Exchanges within the cell, Classification, an Introduction to Simple Animals, and Ecology. This course is suitable for students who require a well-balanced biology course. It would provide a basis for the continuation of study at a college in the United States.



### **Biology Core (6240y)**

*One year – 1 credit*

*Grades 10, 11*

*Prerequisite: Experimental Sciences*

Students taking this class study material which provides the basis for the IB Biology courses. If a student intends to take the IB certificates or diploma, then this course is considered the first year of the standard level course or a preparatory course for the higher level. This course is laboratory orientated, emphasizes conceptual development and an analytical approach to Biology. Topics covered include Cells, Biochemistry, Human Physiology and Genetics.

As it has been agreed by the High School to offer IB SL courses over two years in grades 11 and 12, this is the last year that the Core classes will be offered in their current format.

### **\*IB SL Biology (6820y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: Biology Core or Teacher's approval*

This course continues the material covered in Biology Core to meet the requirements of the IB Standard Level Biology program, including an emphasis on exam preparation. Some of the areas covered in the core class, such as Biochemistry, Cell Biology and Genetics are discussed in more detail. Additionally, the topics of Ecology and Evolution plus two options out of six possible topics are taught. There is a strong emphasis on the development of writing IB lab reports and critical thinking skills. Students taking this course must attend a two-night, three-day marine ecology trip to a nearby island. This trip entails an additional cost to the student of around US\$250.

### **\*\*IB H1 Biology (6825y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: Biology Core or Teacher's approval*

The IB Higher Biology course provides a balanced survey of modern and traditional biology. It is a foundation course for the further study of biology, medicine, agriculture, etc, beyond high school. The main emphasis of this course is on the development of critical and analytical skills, which are the hallmark of a good biologist. Topics covered

in the first year are biochemistry, cell biology, cell energetics, and an introduction to human physiology, plus option H, further human physiology.

### **\*\*IB H2 Biology (6830y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Successful completion of IB HL Biology 1 and Teacher's approval*

This second year of the IB Biology course completes the IB HL syllabus and prepares the students for the IB examination. Topics are: human physiology, reproduction, genetics, evolution and ecology, plus one more option out of four possible topics. Students taking this course must attend a two-night, three-day marine ecology field trip to a nearby island. This trip entails an additional cost to the student of around US\$250.

### **\*\*AP Biology (6831y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Successful completion of IB H1 Biology and Teacher's approval*

This Advanced Placement Biology course can be taken after IB HL 1 has been successfully completed. The students focus entirely on the 3 main topics in AP; Molecules and Cells, Heredity and Evolution and Organisms and Populations. The students also get many opportunities to practice past exam AP questions and prepare for the final exam.

### **Environmental Systems (6817y)**

*One year – 1 credit*

*Grades 10, 11*

*Prerequisite: Experimental Sciences*

This course is the first year of a two-year program of studies with the second year course being either AP Environmental Science or IB-SL Environmental Systems and Societies. The Environmental Systems course forms the Biological, Physical and Earth Science foundations for either of these Environmental courses. Beginning with the study of the structure and function of the Earth's physical systems and continuing with the exploration of the Earth's living systems and ecosystem structure and function. The course concludes with the development of field study skills to be utilized on the Environmental Field Trip in the following year.

**\*IB SL Environmental Systems and Societies (6819y)***One year – 1 credit**Grade 11 or 12**Prerequisite: Satisfactory completion of the Environmental Systems course or teacher approval*

IB SL Environmental Systems and Societies will build on the Environmental Systems course while incorporating the impacts of human interactions on the Earth's ecological systems; thus enabling students to take an informed and responsible stance on a wide range of pressing environmental issues that are relevant to their daily lives. Topics include: biodiversity, resource exploitation, ozone depletion, global warming, pollution, and human population growth and its effects on the environment. These studies will include a mandatory field trip to a nearby island at an additional cost to the student of approximately U.S. \$350. Students may choose to take the AP Environmental Science exam with additional studies on their own.

**\*\*AP Environmental Science (6818y)***One year – 1 credit**Grade 11 or 12**Prerequisite: Satisfactory completion of the Environmental Systems course or teacher approval*

AP Environmental Science will build on the Environmental Systems course while incorporating the impacts of human interactions on the Earth's ecological systems; thus enabling students to take an informed and responsible stance on a wide range of pressing environmental issues that are relevant to their daily lives. Topics include: biodiversity, resource exploitation, ozone depletion, global warming, pollution, and human population growth and its effects on the environment. These studies will include a mandatory field trip to a nearby island at an additional cost to the student of approximately U.S. \$350.

**Introduction to Forensic Science (6890s)***1 semester - ½ credit or one year – 1 credit**Grades 11, 12**Prerequisite: Completion of one year of any JIS High School science course*

Students will learn a variety of forensic science techniques and use them to investigate simulated crime scenes. They will employ the scientific method in their approach to crime scene analysis and present arguments as to the validity of various types of analyses. This is either a one semester course or a one year course as 4 to 5 different topics of forensic investigation are studied per semester. The course will be project based and use many different case studies. From the different topics covered, students will learn techniques involved in microscopic analysis, genetics and DNA fingerprinting, document and fingerprint analysis, crash scene analysis, the physics involved in ballistics and blood splattering, toxicology and serology and computer forensics.

**Chemistry College Preparatory (6225y)***One year – 1 credit**Grades 10, 11, 12**Prerequisite: Satisfactory completion of Experimental Sciences and Algebra I*

This is a course intended to give students a survey of chemistry topics. This is not a preparation course for AP or IB Chemistry. In addition, it will provide a level of chemistry which will support studies in other scientific disciplines. The course is broad in scope, lab-oriented and utilizes a variety of multimedia applications. Topics covered include: the mole concept; stoichiometry; electron configuration/periodicity; atomic structure; bonding; energetics; rates of reaction; and chemical reactions, including acid-base, redox and organic. Since a quantitative approach is used throughout, the student should have successfully completed Algebra I before entering Chemistry College Prep.

### **Chemistry Core (6250y)**

*One year – 1 credit*

*Grades 10, 11*

*Prerequisite: (1) Completion of Experimental Sciences and Algebra 1; (2) Approval of Teacher*

Students taking this class will study the material which will provide the basis for subsequent years of Chemistry at JIS. If a student is eventually aiming to sit for Advanced Placement or IB examinations, then this course can be considered to be the first year of a two- or three-year program. The course is lab-oriented and covers: quantitative chemistry (stoichiometry); atomic structure; periodicity; bonding; energetics; rates of reaction and equilibrium. Since a quantitative approach is used throughout, the student should have successfully completed Algebra I before entering Chemistry Core.

As it has been agreed by the High School to offer IB SL courses over two years in grades 11 and 12, this is the last year that the Core classes will be offered in their current format.

### **\*IB SL Chemistry (6840y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: Satisfactory completion of Chemistry Core*

This is a continuation of Chemistry Core and prepares students for the IB Standard Level examination. The following topics are covered: acids and bases; oxidation - reduction; organic chemistry, and a selection of two options from the IB Standard Level syllabus. Emphasis is placed on improving experimental skills and developing the ability to analyze scientific ideas, both in writing and orally.

### **\*\*IB H1 Chemistry (6845y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: (1) Students should have completed Chemistry Core or equivalent; (2) Teacher approval*

This is the first year of a two-year program designed to prepare students for the IB Higher Level examination in Chemistry. The following topics are covered: atomic structure; chemical bonding; periodicity; energetics; kinetics; equilibrium; acids

and bases, and an extension of the mole concept to more complex problems. There is a major emphasis on practical work.

### **\*\*IB H2 Chemistry (6850y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB HL Chemistry 1*

This is the second year of a two-year program that is designed to prepare students for the IB examination in chemistry at the higher level. In this second year of the program, students will study oxidation-reduction, organic chemistry and the applied chemistry options. In so doing, the students will also continue to extend their study of topics already covered in the first year of the course.

### **\*\*AP Chemistry (6846y)**

*One year - 1 credit*

*Grade 12*

*Prerequisite: IB H1 Chemistry or IBSL and Algebra 2*

This course is designed to be the equivalent of the general chemistry course usually taken during the first year of university. The emphasis is on chemical calculations and the mathematical formulation of principles. The type of laboratory work done by students reflects the mathematical nature of the course. If students have transferred with honors chemistry from another school then this will cover the pre-requisite requirements.

### **Physics College Preparatory (6230y)**

*One year – 1 credit*

*Grades 10 (with Teacher approval), 11, 12*

*Prerequisite: Completion of Experimental Sciences and Algebra I*

This course is broad in scope and designed to introduce the basic physical principles, laws and theories in the fields of mechanics; thermodynamics; electricity; magnetism; waves and modern physics.

Topics are introduced through experiential laboratory work. Concepts relating the principles of physics are developed through laboratory experiences, in addition to data collection, processing and presentation skills.

This course is suitable for students requiring a comprehensive introduction to the principles of Physics but who do not wish to pursue advanced

studies in Physics at JIS. Physics College Prep' provides an introduction for continuing the study of physics at the university level.

### **Physics Core (6260y)**

*One year – 1 credit*

*Grades 10, 11*

*Prerequisite: (1) Completion of Experimental Sciences and Algebra 1; (2) Approval of Teacher*

Students taking this course will study the material which will provide the basis for subsequent years of physics at JIS. If a student is eventually aiming to sit for Advanced Placement or IB examinations, then this course can be considered to be the first year of a two- or three-year program. Similarly, if the goal is to pursue the study of advanced Physics for its own sake, then this should be the course of choice. Topics covered will include: mechanics; thermal physics, electricity, energy, power and climate change. Since a quantitative approach is used throughout, the student should have successfully completed Algebra I before entering Physics Core.

As it has been agreed by the High School to offer IB SL courses over two years in grades 11 and 12, this is the last year that the Core classes will be offered in their current format.

### **\*IB SL Physics (6860y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: Satisfactory completion of Physics Core and Teacher's approval*

This course is a continuation of Physics Core and is designed to prepare students for the IB Standard examination. Emphasis is on improving experimental skills and data analysis. Topics covered include: mechanics, waves, electromagnetism, atomic physics, energy, power and climate change and astrophysics.

### **\*\*IB H1 Physics (6865y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: (1) Completion of Algebra and Geometry; (2) It is recommended that students have completed Algebra II; (3) Completion of Physics Core or equivalent is strongly recommended*

This is the first year of a two-year course designed to prepare students for the IB examination in physics at the higher level. The course is organized using a problem solving and laboratory approach. Topics covered are mechanics, thermodynamics and oscillations and waves and electromagnetic waves.

### **\*\*IB H2 Physics (6870y)**

*One year - 1 credit*

*Grade 12*

*Prerequisite: Completion of IB H1 Physics and Teacher's approval*

This is the second year of a two-year course and it continues the study of the topics which prepare students for the IB Higher Level examination in physics. Topics covered are: electricity, magnetism, energy, power and climate change, digital technology, atomic physics and astrophysics. Students who have completed the course may choose to take the AP Syllabus B exam.

### **Science and Technology (6235s)**

*1 semester - ½ credit*

*Grades 10, 11 and 12*

*Prerequisite: Completion of one year of any JIS High School science course*

This course aims to give students experience of the 'Design Cycle' approach to solving problems when working from a limiting brief. Student's research, design, construct, test, analyze performance and redesign in response to specific problems. This course also aims to give students an historical perspective on the development of technology through the ages. Understanding of the problem-solving process should emerge through the pursuit of the activity. Scientific principles and hand-tool and machine-tool skills are learned on a 'need-to-use' basis. Science and Technology is a project-based course of study and assessment is portfolio-based with no final examination. Students may elect to pursue this course for a second semester involving new projects.

## Social Studies



The social studies program offers a broad range of subjects: history, geography, anthropology, psychology, economics, business and management, all designed to help students better understand their world and their role in it. While students may be members of a particular cultural group and inhabit specific environments, the social studies program expands their horizons, encouraging them to adopt a global perspective and responsible world citizenship.

### Asian Studies (4150y)

*One year - 1 credit*

*Grade 9*

*Prerequisite: None*

Asian Studies is a common ninth-grade course which incorporates the disciplines of anthropology, economics, geography and history in an integrated approach to the study of Monsoon Asia – a study that highlights the area's geographic setting, historical background, as well as its social, political and economic development leading to its emergence as a major force in the 21st century. Special emphasis in the course is placed on the development of relevant social science skills such as analytical writing, data interpretation, mapping, oral presentation, and research methods.

### Asian Studies LE (4155y)

*One year – 1 credit*

*Grades 9, 10*

*Prerequisite: Successful completion of the ESOL program or a qualifying score on the ESOL placement exam*

Asian Studies LE mirrors as closely as possible the content covered in Asian Studies (see above) and serves the same preparatory function. The chief distinction between the two courses is the level at which language issues are engaged and addressed.

### Global Studies (4255y)

*One year - 1 credit*

*Grade 10*

*Prerequisite: None*

To truly understand the complexity of our modern world requires all of the skills in the social studies.

Global Studies incorporates broad units to allow for a deeper investigation of the problems and possibilities that confront our students in the 21st Century. From an investigation of the environmental impacts of population growth and economic development in the Pacific Rim, to critically evaluating the media messages they are inundated with on a daily basis, they will be asked to consider the implications of human behavior. Units of study will also address conflict and conflict resolution in places such as Darfur, Congo and Iraq, as well as the challenges to social justice that are presented by globalization. By allowing for a deeper investigation of the various content areas, students' abilities to analyze and evaluate solutions to global problems will be enhanced. Building upon active skills such as problem-solving and decision-making, the course is student-centered, focusing on an understanding of what it means to be a global citizen.

The skills and content learned in this course provide good preparation for IB offerings in the social sciences and ITGS.

### Cultures and Beliefs 1 (4460s)

*One semester – ½ credit*

*Grades 11, 12*

*Prerequisite: None*

This course combines our previous offerings in Cultural Anthropology and World Religions. Perfect for curious international students, the course explores the origins of the human species and the

foundations of our most powerful and enduring beliefs. The anthropological perspective will combine methods of studying humans as well as a broad range of cross-cultural content. A field trip to archeological and cultural sites in Central Java provides us first-hand experience of the multiple layers of human development. Students will examine early belief systems, focusing on indigenous religions in Africa, as well as the religions of Java. Other aspects of culture studied include language, race, marriage and kinship, and art. The course will help students understand the common origins of humans as well as the cultural diversity that shapes our lives today.

Students and parents should note that, since the field study is an essential component of the course, the trip is mandatory for all students enrolled in the course. The trip usually involves two school days and one day during the weekend and costs approximately USD 550.

### **Cultures and Beliefs 2 (4465s)**

*One semester - ½ credit*

*Grades 11, 12*

*Prerequisite: None*

This course builds upon the methods and themes introduced in Cultures and Beliefs 1, yet has a distinctive content of its own. The emphasis on anthropological inquiry will be maintained, and focus more specifically on the five universal world religions: Hinduism, Buddhism, Judaism, Christianity, and Islam; a field trip to religious sites in Jakarta will provide first-hand experience of the ambience of faith. Students will examine the beliefs and practices of other Asian religions as well, such as Zoroastrianism, Jainism, Sikhism, and Shinto. In particular, the use of symbols and the arts in the world's spiritual traditions will be explored. We will also study contemporary issues such as the links of religion and "terrorism," and the impact of religions upon significant ethical issues. The course emphasizes discussion and open-minded inquiry, enabling each student to think about her or his emerging spiritual and cultural identity.

Students may choose either of the semester options of Cultures and Beliefs, or do both as a one-year elective.

The cost of the field trip to Jakarta religious sites is approximately USD 50.

## **History**

### **Modern History (4260y)**

*One year - 1 credit*

*Grades 10, 11*

*Prerequisite: Asian Studies is recommended*

As Bob Marley once said "if you know your History, then you will know where you're coming from!" Modern History is a study of the political, intellectual, social, and economic developments that have contributed to the emergence of what might be called the modern world. The course follows a thematic approach of Modern European history between 1500 and 1945 from the European Renaissance through to the causes of World War Two.

Special attention will be paid to the development of the skills of analyzing historical evidence and writing analytical essays. These skills will prove invaluable, regardless of what field of studies one chooses to pursue during their high school education. The course is highly recommended for those students wishing to pursue further studies in history (at IB, AP, or Contemporary History levels), or for students who simply want to have a better understanding of the world today.

### **Contemporary World History 1945 to the Present (4410y)**

*One year - 1 credit*

*Grades 11, 12*

*Prerequisite: None*

World War II ended with the dropping of the Atomic Bomb starting not only a new era in international politics but also an accelerated technological revolution. Since that time Communism has been cast into the dust bin of history while television and rock and roll seems to be here to stay. This technological revolution has also created tremendous wealth while the majority of the world's citizens live in poverty with little hope for improvement. The course will examine the political, social, and economic forces that have shaped the world since 1945. As we have entered the new millennium we will examine the worldwide forces that have shaped our times. To this end we will examine numerous historians' writings, and historical documents, acting on the assumption that history is not made up of facts and dates, but opinions and interpretations.

**US History (4350y)***One year – 1 credit**Grades: 11, 12**Prerequisite: Asian Studies is recommended*

U.S. History is open to all junior and senior students and is designed to appeal to students seeking a broad-based knowledge and understanding of the key events which have shaped 20th-century America and those events which will influence the U.S. early in the new millennium. Through the coverage of significant events in U.S. History, current topics such as the recent formation of NAFTA (North American Free Trade Association), drug trafficking, immigration and trade relations with Pacific nations will be included. The course will link America's development with that of Canada and the countries of Central and South America. This course, or U.S. History AP, is recommended for all U.S. citizens who wish to graduate from JIS, with the exception of U.S. students who take the two-year IB History course, Higher or Standard.

**\*\*AP U.S. History (4360y)***One year – 1 credit**Grades 11, 12**Prerequisite: Modern History is recommended but not mandatory*

Advanced Placement United States History provides students with an intensive study of the major issues in American history from its colonial origins to the present. While the course presents a broad introduction to major historical themes – the cross-cultural impact of European colonization, the causes of the colonial revolt, the establishment of the world's first democratic republic, the crisis of the Civil War, the United States' rise to world power in the 20th century – it also examines the varied and often conflicting viewpoints held by individual Americans in their struggle to define the American experience.

**\*IB S1 History (4820y)***(20th Century History: Diplomacy, Dictatorship and the Cold War)**One year – 1 credit**Grade 11**Prerequisite: Modern History is recommended but not mandatory*

The 20th Century was a period of global conflict featuring world wars, numerous localized wars and civil wars, as well as the 45 year long Cold War. This course begins with an analysis of the failed attempts at reaching a lasting peace after the First World War. The course then goes on to examine the dictators, both Fascist and Communist, who emerged in Europe in the inter-war period and later in China in 1949. The second half of the course analyzes in detail East West relations following the end of the Second World War. Topics of detailed study will include the Peace Settlements that concluded WWI, the League and Collective Security, the causes of the Second World War, the origins and process of the Cold War in Europe and Asia, the Korean and Vietnam Wars, the role of Cuba in international relations, Détente, Sino-Soviet relations and the decline and fall of Communism. Emphasis is placed on analyzing these historical events, essay writing and document interpretation.

**\*\*IB H1 History (4825y)***(20th Century History: Conflict, Diplomacy and Dictatorship)**One year – 1 credit**Grades 11**Prerequisite: Modern History is recommended but not mandatory*

The 20th Century was a period of global conflict featuring world wars, numerous localized wars and civil wars, as well as the 45 year long Cold War. This course begins with an analysis of the causes (long and short), effects, and practices of World War I, as well as, the failed attempts at reaching a lasting peace. It then goes on to examine the emergence of dictatorships in Italy, Germany, and the USSR. For each, the rise to power and subsequent rule is examined. Attention is paid to both the domestic and foreign policies in each nation. This leads students to the final unit, the causes of the Second World War. Emphasis is placed on analyzing these historical events, essay writing and document interpretation. In addition, the students, in order to fulfill the I.B. requirements of the internal assessment, will complete an in-depth study of a selected history topic.

**\*\* IB H2 History (4832y)***(The Rise and Fall of Totalitarian States)*

One year – 1 credit

Grade 12

*Prerequisite: While the course is open to anyone, students must have completed IB H1/S History (A Diplomatic History of the 20th Century) if they wish to take the external I.B. Higher History exam.*

The early 20th Century witnessed a world devastated by war and transformed through revolution and the rise to power of Communist Russia Fascist dictatorships in Italy and Germany. This class will examine the domestic history of these totalitarian states in Europe as well as in China. The impact of the Soviet Union on European affairs, and world wars, the rise of totalitarian states and the advent and subsequent fall of communism and the Soviet Union. The study of selected topics from the past century will examine the impact of these phenomena on the people, political institutions and the economy of Europe. These topics will include;

- The Russian Revolution and the Rise of the Soviet State
- The Rise of Totalitarian States (Hitler (1921 – 1945), Mussolini (1919 – 1945), Stalin (1929 – 53), Mao (1930s – 1976), Deng Xiaoping (1976 – 1989)
- The Soviet Union to 1990

This course is required for anyone sitting for the Higher I.B. exam, but is open to anyone who wishes to take a challenging history course.

**Geography****Geography (4270y)**

One year - 1 credit.

Grades 10, 11, 12

*Prerequisite: Asian Studies is recommended*

Geography is the study of the earth's landscapes, peoples, places and environments. It is, quite simply, about the world in which we live. Geography is unique in bridging the social sciences (human geography) with the natural sciences (physical geography). Geographers are interested in changes happening in the world around them. This course introduces some central themes of environmental, physical and human geography and some key skills geographers use to describe, measure and interpret the environment around them. The earth is facing serious environmental threats. The study of the interrelationships between the physical and human environment is key to the understanding of complex environmental problems. The natural environment is constantly changing and students investigate how plate tectonics, earthquakes, and volcanoes helped shape reshaped the earth's surface. Humans have a huge impact on our planet and in the population geography unit students explore the global challenges of increasing population numbers and the environmental impact of using more resources. Students will use Google Earth to learn essentially mapping and data analysis skills.



**\*\*IB H1 Geography (4810y)***One year – 1 credit**Grade 11**Prerequisite: Geography (4270y) helpful but not essential*

H1 Geography is the first year of the Higher Level IB course. Geography is a dynamic subject that explores the interactions between individuals, societies and the physical environment. Students examine a variety of patterns and trends that are related to these interactions. They develop a strong understanding of key global issues on a range of scales from local to regional, national and international. The course begins with the core theme and helps students develop a geographic foundation that will provide support for future material. The first unit's topic is entitled Populations in Transition. This unit looks at the changes populations are experiencing, actions that are being taken to deal with levels of fertility, the causes and responses to migrations and the inequalities that exist between genders. Unit 2, Disparities in Wealth and Development, looks at ways disparities can be measured, why these disparities exist and what efforts can be taken to reduce these differences. During semester two students continue with their first optional theme, Urban Environments. Urban populations, land use, urban stress and sustainability are all studied closely in order to prepare students for the fieldwork component of the course. Students will examine Jakarta's urban environment in order to meet their IB internal assessment requirements. The school year concludes with Unit 4, Leisure, Sport and Tourism and a look at these topics on a variety of scales. As the course progresses students enhance their reading and writing skills, as well as their ability to interpret and analyze a variety of tables, graphs, diagrams and maps. They also have the opportunity to undertake statistical calculations, and to research, process and interpret data.

**\*\*IB H2 Geography (4815y)***One year – 1 credit**Grade 12**Prerequisite: IB H1 Geography*

The second year of the Higher Level IB course begins with the third and final optional theme, Hazards and Disasters – Risk Assessment and Response. This unit examines two hazards, the

vulnerability of populations, analysis of the risk certain hazards pose, and ways to respond in the event of a hazard. Students will then return to the core theme and Unit 2, Patterns in Environmental Quality and Sustainability. The unit will examine how our atmosphere, soil and water are all being affected by environmental and human factors. During semester two students will continue with Unit 3, Patterns in Resource Consumption as they look at changing patterns and trends and various conservation strategies. The final unit of the course, Global Interactions, inspects the movements and exchanges that exist between places of varying development. The unit looks at the impact the developing and developed world have on one another and the economic, environmental, sociocultural and political consequences of their interactions. Geographic skills will continue to be reinforced at this level in preparation for the final IB examination. This course provides an excellent foundation for any future college level social studies course. Careers involving geography include urban and regional planning, marketing, real estate, tourism, international business, development aid planning, geology, environmental science and management.

## Psychology

**Psychology (4430s)***One semester – ½ credit**Grades 11, 12**Prerequisite: None*

Have you ever wondered about people's behavior? Do you understand why people think and act as they do? Do you wonder if your actions are controlled by you or other forces? This introductory course in psychology studies people's behavior and gives an insight into individual thoughts, emotions, and actions. The topics covered include: the science of psychology, research methods, biological bases of behavior, environmental bases of behavior, nature/nurture and determinism/free will debate, personality, and social psychology. Assessment includes an individual research assignment.

**\*\*AP Psychology (4848y)***One year - 1 credit**Grades 11, 12**Prerequisite: None*

Advanced Placement Psychology introduces students to the scientific study of human behavior and mental processes. It is the equivalent to an 'Introductory' college level course. The course reflects an American approach to psychology in which 12 topics are taught. These include: biological bases of behavior, sensation and perception, consciousness, learning, memory, emotion, personality, intelligence, abnormal behavior, and social psychology.

The A.P. examination is two hours long and includes both a 70-minute multiple-choice section and a 50-minute free response section. The multiple-choice section accounts for two-thirds of the student's examination grade. There is no internal assessment component in the A.P. exam.

**\*IB S1 Psychology (4846y)***One year - 1 credit**Grade 11**Prerequisite: None*

This course is the first year of the two-year IB Standard level syllabus. IB Psychology at Standard level is offered to students who have an interest in the systematic study of human behavior and mental processes. Through scientific study and research, Psychology explores biological, social, cognitive and cultural influences on behavior and demonstrates how these apply to psychological functioning and behavior. Students in the first year of the course are required to study three levels of analysis in psychology: Biological, Cognitive, and Socio-cultural. The study of these three levels of analysis comprises the core of the Psychology course.

**\*\*IB H1 Psychology (4840y)***One year - 1 credit**Grade 11**Prerequisite: None*

This course is the first year of the two-year IB Higher level syllabus. IB Psychology at Higher level is offered to students who have an interest in the systematic study of human behavior and mental processes. Through scientific study and research,

psychology explores biological, social, cognitive and cultural influences on behavior and demonstrates how these apply to psychological functioning and behavior. Students in the first year of the Higher course are required to study three levels of analysis in psychology: biological, cognitive, and socio-cultural. The study of the biological, cognitive and the socio-cultural level of analysis comprises the core of the psychology course.

**\*\*IB H2 Psychology (4845y)***One year - 1 credit**Grade 12**Prerequisite: IB H1 Psychology*

The second year of Higher Level psychology expands on students' existing knowledge of the core levels of analyses to include two psychological options, from a choice of Abnormal, Developmental, Health, Human Relationships and Sport Psychology. The theory relating to qualitative research methods in psychology is examined as an additional unit of study.

Internal assessment (20% of the exam grade) requires students to partially replicate one experiment in psychology by conducting the study, analyzing the data using inferential statistics and reporting on the findings.

## Economics

### **Economics (4440s)**

*One semester - 1/2 credit*

*Grades 11, 12*

*Prerequisite: None*

Do you want to understand the headlines in the newspaper: "Government proposes austere budget"; "Dollar in downward trend"? Then this course may be for you. Economics is designed to provide the student with an introduction to the fundamental principles of economics and to allow the students to study some of the major topics which dominate the world today. As an introductory survey course, Economics can provide a foundation upon which students proceed to study the subject in more detail, such as undertaking the AP Macroeconomics course.

### **\*\*AP Macroeconomics (4859y)**

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: None*

The AP Macroeconomics course is designed to provide students with an introduction to economics, focusing on the macroeconomy. By taking this course, student should gain a better understanding of the factors affecting the level of economic activity in nations, and the economic policymaking that is conducted to improve nations' living standards. Students will learn about the causes of, and the trade-off between, inflation and unemployment, fiscal and monetary policy, and how the US economy interacts with the rest of the world. Students will be assessed by the AP College Board with an external examination in May. This course prepares students specifically for the AP Macroeconomics examination and there is an expectation that students will take this exam.

### **\*\*AP Microeconomics (4860y)**

*Each year – 1 credit*

*Grades 12*

*Prerequisite: AP Macroeconomics / IB Higher 1 Economics / IB Standard Level Economics*

This course provides an excellent foundation for future college level study of microeconomics. Building on the basic microeconomic concepts students have covered in the Macroeconomics

course, students will focus on the study of the nature and functions of product markets, factor markets, and then finish with a study of market failure and the role of government. This course prepares students specifically for the AP Microeconomics examination and there is an expectation that students will take this exam.

### **\*IB Standard 1 Economics (4851y)**

*One year – 1 credit*

*Grade 11*

*Prerequisite: None*

*Teacher approval required.*

Individuals, firms and governments must constantly make choices that will affect both their own economic well-being and that of society as a whole. Economists examine how such choices are made, the consequences of these choices and develop models and ways of thinking to ensure that the most socially beneficial decisions are made. The IB Standard Level Economic course provides a general introduction to the study of economics. It covers five broad sections of economics: resources and markets, business economics, macroeconomic arguments, international issues and development economics.



**\*\*IB Higher 1 Economics (4854y)***Each year – 1 credit**Grades 11**Prerequisite: None*

Economics is all around us. It covers almost every aspect of life today; from how much money you have in your pocket to the cause of wars in distant lands. In today's world it is essential to understand how the global economy works from the macro level to the micro level. Economics Higher 1 places everyday financial matters in the wider context of the sometimes mysterious economic forces that shape our lives, tracing the emergence of economic doctrines and explaining how economic systems worked in the past and how they work today. This class begins the process through the first year's study of the "big picture" in the world of economics. While the IB Higher Economics syllabus follows the same five broad sections as the IB Standard course, greater time, depth and analysis is spent on each section.

**\*\*IB Higher 2 Economics (4865y)***Each year – 1 credit**Grades 12**Prerequisite: IB Higher 1 Economics / IB Standard Level Economics/ AP Macroeconomics*

The modern world economy binds together all regions of the globe, from the very rich to the very poor. Globalization and its effects on the world is just one of the many micro topics that are strategically analyzed in this class. While it is extremely important to understand the "big picture" particular emphasis is placed on how financial institutions work, how wealth is created and distributed, how economics relates to politics, and how the global economy works that ties together everyone on the planet. This course provides an excellent foundation for future college level study of both macro and microeconomics. Students may elect to take the IB Higher level and/or AP Macro/Micro economics examinations after completing the two-year Higher Level study program of economics.

## Business Management

**Business in Society (4071y)***One year-1 credit**Grade 11, 12**Prerequisite: None*

Iphones, working hours, profit, office blocks, corporate jets, pollution, sponsorship, unemployment, flights into space – businesses are at the very heart of modern society. Business in Society is a practical study of different operations of businesses and their impact on society. As a student, you will gain an understanding into some of the main areas of business activities including: marketing, finance, operations, and managing people, and how they affect society. You will then be able to practice using this knowledge by applying what you know to business situations. The course is divided into units of study, each unit focusing on a different area of business e.g. marketing. Each unit will be based around project work, where you apply the knowledge you've learnt. Summative assessment will be based on the projects you complete for each unit and semester exams. Formative assessment will be given through class assignments, homework and feedback while you are completing your projects.

**\*\*IB H1 Business and Management (4870y)***One year-1 credit**Grade 11**Prerequisite: None*

This IB course provides students with an in-depth understanding of the ways in which individuals and groups interact in a dynamic business environment. Understanding how businesses are managed in order to achieve various goals not solely related to profit is of vital importance in today's globalising world. In the first year, students study the historical evolution of business firms, policies related to distribution and marketing, and the dynamic inter-play between the external environment and the business firm. Students also gain an understanding of basic business principles, practices and skills. Furthermore, by learning the application of tools and techniques of analysis, students enhance their understanding of the complex business environment. Finally, in order to apply their knowledge and skills to real world situations, students examine case studies and significant decisions in business history. This Course represents the first year of a two-year program leading to the IB Business and Management Higher Level examination.

**\*\*IB H2 Business and Management (4875y)***One year-1 credit**Grade 12**Prerequisite: IB H1 Business and Management*

In the second year, the students continue to study business firms and their policies related to technical innovation, human resource management and finance. This course extends the concepts of the year 1 course with respect to acquisition of skills and knowledge. Throughout the year, the course maintains a sharp focus on how to make decisions considering their impact on both the internal and external environment. An important component of this course is the research project that allows the students to apply their knowledge and skills to organizational issues and decision-making processes. The completion of this two-year course provides an excellent foundation for students who wish to take commerce-related courses in the university.

## Theory of Knowledge

**Theory of Knowledge 1 (4881s)***One semester – ½ credit**Grade 11 (obligatory for grade 11 IB diploma students)**Prerequisite: None*

"Who am I? How do I know?" The purpose of this course is to help students recognize themselves as "knowers." They are invited to question the validity of the bases of knowledge they receive in their schooling, as a foundation for lifelong learning and the development of a personal philosophy. The skills emphasized in the course are critical thinking, active discussion, analytical writing and integration of knowledge. Much of the first semester of this two-semester course is devoted to consideration of the Ways of Knowing – language, perception, reason and emotion – and their relationship to knowledge. Approval for this course for non-IB diploma students requires a signature from a Social studies teacher and the IB Co-ordinator.

**Theory of Knowledge 2 (4880y)***One semester – ½ credit**Grade 12 (obligatory for grade 12 IB diploma)**Prerequisite: ToK I*

This course represents the second half of a two-semester course. While the same skills are emphasized in both semesters, the course content changes a little in the second semester, with more of a focus on the Areas of Knowledge: Mathematics, Natural Sciences, Human Sciences, History, Ethical Judgement, and Aesthetic Judgement, in an effort to answer the question "What do I know?" While the classification of knowledge into subject areas is recognized, the relationships between the different disciplines are also emphasized. Overall course assessment also takes on more importance in the second semester, with attention paid to the final essay on a prescribed title and the oral presentation.

## Technology

JIS's aim is to prepare all students to utilize information technology. Students should enroll in a technology course as early as possible in order to derive the greatest benefit from these skills. Seniors who have not completed their technology credit will be expected to complete it in the first semester. Students should use the Technology Flowchart when developing their four-year plan. The 1/2 credit Technology graduation requirement is met by the following Technology and Publications courses. Accounting does not fulfill the Technology graduation requirement.

Note on keyboarding:

Keyboarding is a basic skill imperative to all students in their ability to work efficiently. All students should have attained a basic competency level in keyboarding before attempting other technology courses, which are 30 words per minute (WPM) using correct technique. All students are encouraged to maintain and refine their keyboarding techniques throughout their HS experience by using available keyboarding programs.

### **Video Production (8190s)**

*One semester - ½ credit Technology*  
*Grades 9, 10, 11, 12*

This one semester course serves as an introduction to concepts and techniques related to the creation of video presentations. Students will be given the information and opportunity to create original video productions using state of the art non-linear editing software. Students will learn about phases of video production including brainstorming, storyboarding, shooting schedules, filming, editing, and final rendering. The emphasis of this course is on acquiring skills to use the tools of production.

### **Everyday Tech (8341s) (formerly Computer Apps)**

*One Semester – ½ credit Technology*  
*Grades 9, 10, 11, 12*

Students are faced with a multitude of choices involving technology every day. Students will learn more about the technology environments, on-line applications, and collaboration systems they use daily. Students will explore and increase their

understanding of common software solutions, including Web 2.0 applications, to increase their productivity. Students will acquire the skills necessary to navigate future changes in technology by evaluating software and learning how to adopt new technology. This will help students throughout high school, university, and even their career. This is a great course to take early to get the most benefit during JIS years.

### **Introduction to 3D and Rich Media**

**Environments (8431s)** (formerly Intro to Comp Lang)

*One Semester – ½ credit Technology*  
*Grades 9, 10, 11, 12*

This course will introduce 3D graphics as the means of basic programming and object oriented design. The Alice system utilizes a 3D graphical drag and drop system to place components (objects such as animals, humans, cars, toys, etc) into a virtual world. Students create 3D animations and interactive programs allowing students to learn the basic structures of programming. Projects are story-based and compel students to use their creativity. Skills are further developed using Adobe Flash Actionscript to create interactive web based graphical programs. This course is an excellent introduction for students interested in further Computer Science courses, as well as those with an interest in interactive graphics and animation.



### **\*IB S1 Information Technology in a Global Society (8451y)**

*One year – 1 credit Technology  
Grades 11*

This is the first year of this standard level course. Students analyze the impact of information technology in a social context and the ethical considerations arising from information technology, including how it influences individuals, communities, nations, institutions and organizations. The course focuses on three broad areas, Information Technology, Social & Ethical Issues, and Areas of Impact. The focus in the first year is learning the information technologies covered with in social and ethical contexts.

This course is an **IB Group 3** subject.

### **\*IB S2 Information Technology in a Global Society (8450y)**

*One year – 1 credit Technology  
Grades 12*

*Prerequisite: IB S1 Information Technology in a Global Society*

In this second year of study, students focus on the information technologies social and ethical implications in the context of the required areas of impact. How information technology impacts Business and Employment is a core strand of study. Students will complete an internal assessment using various information and communication technologies to provide a solution in the form of a documented project.

This course is an **IB Group 3** subject.

### **Web Design (8475s)**

*One semester – ½ credit Technology  
Grades 9, 10, 11, 12*

Students will learn the fundamentals of creating a website utilizing a range of web page creation, graphic design, and coding software. During the first third of the course, students will work at an independent pace learning html coding. Then students will focus on the construction of web sites linking multiple pages and images while using cascading style sheets for consistency. Students will examine and evaluate existing websites to

develop both functional and aesthetic design criteria. The course will conclude with a focus on web page planning and management using Adobe Dreamweaver.

### **Graphics to MultiMedia (8480s)**

*One Semester – ½ credit Technology  
Grades 9, 10, 11, 12*

Students will work with computer graphics, music and video clips to develop multimedia presentations. Through project work students are exposed to digital cameras, scanners, printing and industry standard graphics software used for drawing, creating and manipulating graphics, sound manipulation and video editing. Students utilize principles and elements of design to guide graphic creation and presentation.

### **Intelligent Robotics (8490s)**

*One Semester – ½ credit Technology  
Grades 9, 10, 11, 12*

Intelligent robots are computer controlled smart devices that can autonomously perform tasks for users. They can perceive their environment and take a series of actions to achieve a complex goal. In this course students will have the opportunity to assemble robots using LEGO parts, various sensors including touch, light, and sound. The robots will be controlled by small computers using student authored programs. Students, individually and in teams, will work through a series of projects familiarizing them with the mechanical concepts of work and control based on sensors. Students will be given appropriate reading materials and write on the essence of intelligence, AI applications, the current state of robotics and the potential of intelligent robotics. The course will culminate in a comprehensive project with performance goals.

**\*IB S1 Computer Science (8809y)**

*One year – 1 credit Technology*

*Grade 11*

*Recommended: Introduction to 3D and Rich Media Environments*

Students prepare for the IB Standard Level examination. Students will start with grounding in Computer Systems Fundamentals covering numeric representation, computer systems architecture, peripheral devices, operating systems, and utility software. Students will also start an extensive study of Java programming, prior programming experience is recommended. Problem solving strategies and skills are also emphasized, enabling students to solve complex programming tasks. Topics include programming methodology, features of programming languages, data types, control structures, and standard algorithms. By year's end, students will be ready to develop a large computer dossier for their internal assessment

This course is an **IB Group 5** subject.

**\*IB S2 Computer Science (8810y)**

*One year – 1 credit Technology*

*Grade 12*

*Prerequisite: IB S1 Computer Science (8810y)*

Students continue their study of Java programming. The emphasis is on process. Students learn how to interview a client, analyze their needs and develop a solution. Learning is demonstrated in the internal assessment, the program dossier, completed by the end of the first semester. The final semester is devoted to special topics and the case study preparing final exams. Topics are revisited and revised as indicated by performance on mocks in preparation for the external exams in May.

This course is an **IB Group 5** subject.

**\*\*IB H1 Computer Science (8821y)**

*One year – 1 credit Technology*

*Grade 11*

*Recommended: Introduction to 3D and Rich Media Environments*

Students prepare for the IB Higher Level examination. Students will start with grounding in Computer Systems Fundamentals covering numeric representation, computer systems architecture, peripheral devices, operating systems, and utility software. As higher level students, they will extend their study to include additional topics of computer mathematics, logic, abstract data structures, a formal analysis of algorithm efficiency, recursion, more detailed examination of system fundamentals, and file organization. Students will also start an extensive study of Java programming, prior programming experience is recommended. Problem solving strategies and skills are also emphasized, enabling students to solve complex programming tasks. Topics include programming methodology, features of programming languages, data types, control structures, standard algorithms and file processing.

This course is an **IB Group 5** subject.

**\*\*IB H2 Computer Science (8820y)**

*One year – 1 credit Technology*

*Grade 12*

*Prerequisite: IB H1 Computer Science (8820y)*

Students focus their study on abstract data types including linked lists, stacks, queues, and binary trees using both dynamic and static implementations. Mastery of abstract data types is demonstrated in the program dossier, the internal assessment. Additional topics studied include recursion, polymorphism, inheritance, encapsulation, and algorithm efficiency. In second semester students will be focused on completing the program dossier, their internal assessment, and preparing for external examinations.

This course is an **IB Group 5** subject.

**\*\*AP Computer Science (8830y)***One year - 1 credit Technology**Grades 11, 12**Prerequisite: Introduction to 3D and Rich Media Environments or Instructor's approval*

A major part of the course is an extensive study of Java programming, prior programming experience is recommended. Problem solving strategies and skills are also emphasized, enabling students to solve complex programming tasks. Topics include programming methodology, features of programming languages, data types and structures, algorithms, applications of computing, computer systems and social implications. In addition to a series of documented programs, students will make an extensive examination of a case study. Solid understanding of the case study is required to answer external examination questions.

**Yearbook (8380y)***One year – ½ credit elective then ½ credit Technology**Grades 10, 11, 12**Recommended: Everyday Tech and/or Graphics to MultiMedia*

This course provides instruction and practice in yearbook, journalism and book production. Students learn several aspects of publication including photography, writing, editing, page layout and design, graphic arts, copy editing, Adobe InDesign desktop publishing and word processing. The class produces Komodo, an approximately 450-page book, that summarizes the school year.

**Accounting (8350y)***One year – 1 elective credit, 0 credit Technology**Grades 10, 11, 12*

Any student interested in pursuing a business career at the post-high school level will benefit from this beginning accounting class. Students are introduced to basic accounting concepts and career options. The emphasis is on journalizing financial transactions, posting to ledgers, and preparing basic financial statements for merchandising and service businesses. Students progress through two complete accounting cycles - a proprietorship and corporation. Special units will cover automated accounting systems on PCs and spreadsheets. Upon successful completion of the course, students will be prepared for further study in accounting or business studies.

This elective will earn elective credit only. It does not fulfill the HS graduation technology credit.

# Visual and Performing Arts

All credit is Visual and Performing Arts credit.

## Visual Arts

The Visual Arts Program is designed to ensure a progressive, increasingly challenging and differentiated art education for JIS students. Unless approved by a High School Visual Art Teacher, all new High School students will be expected to take Art Foundation 1 prior to any other Visual Art class. Students wishing to be considered for entry into International Baccalaureate (IB) Visual Art or Advanced Placement (AP) Art classes must have prior formal visual art experience and all interested students will be interviewed by one or more High School Visual Art Teachers to ensure appropriate placement. Visual Art Teacher's Recommendation is required irrespective of previous art class experience. Students who elect to use materials and/or equipment above and beyond the general supplies provided for the course will be expected to either provide these themselves or to pay appropriate costs.

### Art 1 (9600s)

One semester – ½ credit

Grades: 9, 10, 11, 12

Prerequisite: None

*Exemption Possibility: A student capable of showing a good understanding of the Elements of Art will be permitted to proceed directly into Art 2 or a Specialty class. This exemption will only be permitted by a High School Visual Arts Teacher.*

This one-semester, elective course is a requirement prior to students progressing through the remaining Visual Arts program. The aim is to provide a fun environment in which the fundamental visual arts techniques and concepts learned at the middle school level are refined and a stronger understanding of the Elements of Art are developed. The student will proceed through a series of assignments each varying in use of tools,

media, and length. Using an Investigation Workbook, the art student will document his or her journey and use ideas created within the Investigation Workbook to create Studio Work.

### Art 2 (9605s)

One semester – ½ credit

Grades: 9, 10, 11, 12

Prerequisite:

- Art Foundation 1
- Visual Art Teacher's Recommendation is required

This is a one-semester, elective course which continues the artistic journey begun in another High School visual arts course. Progressing from the Elements of Art, students will adventure further into the meaning of the visual language through the study of the Principles of Design. They will work from an increasing personal perspective and will be expected to develop their individual ideas and images beyond the initial brief in each class assignment. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work.

### 3-D Forms (Specialty Course) – (9610s)

One semester – ½ credit

Grades: 9, 10, 11, 12

Prerequisite:

- Art Foundation 1 or another Specialty Foundation art course
- Visual Art Teacher's Recommendation is required

Students taking this specialty foundation art course will now focus on 3-D (3-Dimensional) artistic forms concerning themselves primarily with; height, width, and depth. The media utilized in this course includes, but is in no way limited to; clay, wire, natural materials, Styrofoam, found objects, wood, etc. Creative assignments are designed to use the Elements and Principles of Art and Design. Where appropriate in the course students will incorporate technology into their approach and will be made aware of the impact of history and culture on the creation of 3-D forms. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work.

**3-D Forms - Advanced (Specialty Course) (9615s)***One semester – ½ credit**Grades: 10, 11, 12**Prerequisite:*

- *3D Forms Foundation*
- *Visual Art Teacher's Recommendation is required*

Students in 3-D (3-Dimensional) Forms Advanced may elect to study ceramics, sculpture or combine both during the semester. Students will explore the ways in which the creating of sculpture and/or structures can communicate their reactions and relationships to such things as experiences, people, and qualities in the built and natural environment. Media options will include but are not limited to; mould making and metal casting, plaster, clay, and use of found objects. Students will continue to utilize the Elements and Principles of Art and Design and will be expected to develop a more individual approach to ideas and creations. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work. Upon teacher recommendation, this course may be taken a second time.

**2-D Art & Design (Specialty Course) (9620s)***One semester – ½ credit**Grades: 9, 10, 11, 12**Prerequisite:*

- *Art Foundation 1 or another Specialty Foundation art course*
- *Visual Art Teacher's Recommendation is required*

In this course students develop and extend the skills and confidence within the more specialized area of 2-D (2-Dimensional) Art & Design. Students will be introduced to a variety of media which may include, but is in no way limited to; pencil, computer graphics, charcoal, paint, ink, pastel, etc. Creative / imaginative techniques and documenting from observation will be the two main areas of focus each explored individually and in combination. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work.

**2-D Art & Design - Advanced (Specialty Course) (9625s)***One semester – ½ credit**Grades: 10, 11, 12**Prerequisite:*

- *2D Art & Design Foundation*
- *Visual Art Teacher's Recommendation is required*

At the specialty advanced level there will be a wider assortment of 2-D (2-Dimensional) media and methods available for the students to explore with the expectation that they search for potential materials beyond those previously explored. Students will be urged to become more independent in developing their own concepts which will be supported by media exploration and related research. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work. Upon teacher recommendation, this course may be taken a second time.

**Print & Resist (Specialty Course) (9630s)***One semester – ½ credit**Grades: 9, 10, 11, 12**Prerequisite:*

- *Art Foundation 1 or another Specialty Foundation art course*
- *Visual Art Teacher's Recommendation is required*

The Print & Resist course will cover many technical and aesthetic aspects of related printmaking and resist methods. The media and techniques for this course include, but are in no way limited to; embossing, batik, tie-dye, etching, block print, silk screen, etc. Students will use their prior knowledge of the Elements of Art in creating individual responses to assignments which are based on the Principles of Design. Students will be encouraged to use individual approaches, style and image making in developing Studio Work. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work.

### **Print & Resist - Advanced (Specialty Course) (9635s)**

*One semester – ½ credit*

*Grades: 10, 11, 12*

*Prerequisite:*

- *Print & Resist Foundation*
- *Visual Art Teacher's Recommendation is required*

The basic skills learned in the Print & Resist Foundation course will be utilized with an expectation of increased individual work in terms of quality and variety. Through broad assignments students will be introduced to concepts and projects with an expectation of personal, individual idea development. At the advanced level students will be urged to utilize more traditional available media as well as working in a more experimental, adventurous manner. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work. Upon teacher recommendation, this course may be taken a second time.

### **Photography (Specialty Course) (9640s)**

*One semester – ½ credit*

*Grades: 9, 10, 11, 12*

*Prerequisite:*

- *Art Foundation 1 or another Specialty Foundation art course*
- *Visual Art Teacher's Recommendation is required*

Students will strengthen their analytical skills, aesthetic awareness and critical appreciation – and will be encouraged not only to produce their own photographic images but also to be aware and objective about those of other photographers. The students' technical understanding and appreciation of photographic techniques and procedures will evolve naturally through their personal involvement in challenging assignments, involving the basics; Aperture, Shutter Speed, ISO, White Balance, MACRO, etc. The student will document his or her journey through this course within an Investigation Workbook and collection of Photographs.



### **Photography - Advanced (Specialty Course) (9645s)**

*One semester – ½ credit*

*Grades 10, 11, 12*

*Prerequisite:*

- *Photography Foundation*
- *Visual Art Teacher's Recommendation is required*

This course is designed to provide students with the opportunity to build upon the knowledge and experience gained from the foundation class. Through thought-provoking photographic assignments the student will document his or her journey through this course within an Investigation Workbook and collection of Photographs. The underlying intention in this more advanced course is to encourage the student to experiment with photographic image making and manipulation beyond the traditional and predictable, in order that they may produce more individual, personal visual responses to the world around them. Upon teacher recommendation, this course may be taken for a second time.

### **Jewelry (Specialty Course) (9650s)**

*One semester – ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Art Foundation 1 or another Specialty Foundation art course*
- *Visual Art Teacher's Recommendation is required*

This course incorporates traditional and contemporary approaches to designing and creating Jewelry. Students will choose from a wide range of short assignments designed to generate a good understanding of processing and skills in jewelry making. Materials used include woods, plastics, metals (brass, copper, pewter, and silver), and some stone setting, cutting, and polishing. A comparison of jewelry from past and present cultures will help students express their own creativity. The student will document his or her journey through this course within an Investigation Workbook and collection of Photographs. The school will provide most of the materials and equipment needed for this course, but students are required to pay per gram for silver they may use for their creations.

### **Jewelry - Advanced (Specialty Course) (9655s)**

*One semester – ½ credit*

*Grades 10, 11, 12*

*Prerequisite:*

- *Jewelry Foundation*
- *Visual Art Teacher's Recommendation is required*

Through more individualized Jewelry assignments students will build upon the skills, knowledge and experiences gained from the foundation class. Students will be expected to work more independently using their own ideas towards the design and creation of products with a greater emphasis on experimentation and research. While further developing the use of the media used in the Foundation class; stone setting, cutting, and polishing may also be involved. The student will document his or her journey through this course within an Investigation Workbook and created Studio Work. Upon teacher recommendation, this course may be taken for a second time.

### **Advanced Art (9660y)**

*One year - 1 credit*

*Grades: 10, 11, 12*

*Prerequisite:*

- *An assortment of Visual Arts classes and strong understanding of the Visual Arts*
- *Visual Art Teacher's Recommendation is required*

This full year course is designed for the serious art and design student who planning to take Advanced Placement (AP) Art his or her Senior year. Assistance and direction will be given towards the college application process inclusive of, but not limited to, the preparation of a portfolio of Studio Work. Research will be required and students will be expected to keep an Investigation Workbook filled with experiences, discoveries, and ideas to be submitted for assessment purposes alongside his or her created Studio Work. The underlying intention in this Advanced Art 1 course is to encourage the student to take their previous learning, experiences and influences and experiment with various media and techniques beyond the traditional and predictable, in order that they may produce more individualistic and personal visual responses to the world around them.

### **\*\*Advanced Placement (AP) Art (9825y) NEW**

*One year - 1 credit*

*Grades: 11, 12*

*Prerequisite:*

- *Advanced Art I or IB S1 Visual Arts or IB H1 Visual Arts*
- *Visual Art Teacher's Recommendation is required*

The Advanced Placement (AP) Art course is designed for students who are seriously interested in the practical experience of creating art. The course is suitable for students with a well above average interest in visual art and is appropriate especially for students desiring to further their visual arts education at the university level. The opportunities where students can excel in this class are: drawing, painting, photography, digital imagery, graphic design, and printmaking. AP Studio Art is not based on a written examination; instead, near the conclusion of the school year the student submits a portfolio of original artworks for external evaluation.

### **\*IB S1 Visual Arts (9811y)**

*One year – 1 credit*

*Grade: 11*

*Prerequisite:*

- *An assortment of Visual Arts classes and strong understanding of the Visual Arts*
- *Visual Art Teacher's Recommendation is required*

This is the first year of a two-year International Baccalaureate (IB) Visual Arts course taken at Standard Level. The course is suitable for students with an above average interest in visual art. The course may be taken by students, who do not intend to continue with an art education after graduating, but are nevertheless highly interested and enthusiastic about art and can provide sufficient and appropriate evidence of previous art skills and experience. The course follows the content and assessment procedures involved in the Higher Level, with the difference being the quantity of completed pages in the Investigation Workbook and the number of Studio Works.

### **\*IB S2 Visual Arts (9810y)**

*One year – 1 credit*

*Grade: 12*

*Prerequisite:*

- *IB S1 Visual Arts or IB H1 Visual Arts*
- *Visual Art Teacher's Recommendation is required*

Having completed the first year International Baccalaureate Standard or Higher Level (IB S1 or IB H1) Visual Arts course a student may elect to take the IB Visual Arts examination at the Standard Level. The content of the Standard Level course matches that at the Higher Level with the main difference being the quantity of work expected to be completed. The course culminates in an exam exhibition designed and displayed by the student.

### **\*\*IB H1 Visual Arts (9820y)**

*One year – 1 credit*

*Grade: 11*

*Prerequisite:*

- *An assortment of Visual Arts classes and strong understanding of the Visual Arts*
- *Visual Art Teacher's Recommendation is required*

This is the first year of a two-year International Baccalaureate Higher Level (IB H1) Visual Arts course. The course is designed for students with a well above average interest in visual art and is appropriate especially for students desiring to further his or her Visual Arts education at the University level. The course consists of two main components, Studio Work and the development of an Investigation Workbook. Studio Work may include but is in no way limited to; painting/drawing, sculpture and ceramics, printmaking, jewelry, computer graphics, film, photography, etc. The Investigation Workbook involves the students in independent, critical, contextual, and visual research, and in the integration of these with the practical Studio Work.

### **\*\*IB H2 Visual Arts (9830y)**

*One year – 1 credit*

*Grade: 12*

*Prerequisite:*

- *IB H1 Visual Arts*
- *Visual Art Teacher's Recommendation is required*

This is the second of the two-year International Baccalaureate Higher Level (IB H1) Visual Art course where students are expected to build upon

practical and research work done in the first year.

Students will become more independent and will specialize more, having a clearer idea of a chosen theme. All students continue working with Investigation Workbook alongside their Studio Work with the expectation that the relationship between the two is consistent and mutually supportive. The course culminates in an exam exhibition, designed and displayed by the student.

### **\*IB S1 Film (9836y)**

*One year – 1 credit*

*Grade: 11*

*Recommended:*

- *Photography Foundation or Video Production*
- *IB Film Teacher's Recommendation is required*

IB Film at SL aims to develop in students the skills necessary to achieve creative and critical independence in their knowledge, experience and enjoyment of film. Students will gain an appreciation and understanding of film as a complex art form, make critical evaluations of film productions, demonstrate their knowledge of film-making traditions in several countries, develop their abilities to formulate stories and ideas in film terms, and learn the practical and technical skills of production. This is the first year of a two-year course. The course is suitable for students with a well above average interest in film and is appropriate especially for students who wish to pursue film as a major at the college level or as a vocation. The course may be taken, however, by students who do not intend to continue with an art education after graduating, but are nevertheless highly interested and enthusiastic about film and can provide sufficient and appropriate evidence of previous skills and experience. IB Film follows the content and assessment procedures at the Higher Level, with differences in the quantity of films studied and pages written for the independent study, and a shorter film and smaller production portfolio required for the internal assessment for standard level students. SL students also do not produce a trailer for their film.

**\* IB S2 Film (9837y)**

One year – 1 credit

Grade: 12

Recommended:

- IB S1 Film or IB H1 Film
- IB Film Teacher's Recommendation is required

In the second year of IB Film, students focus on their independent study project as well as their film and production portfolio. The course follows the content and assessment procedures involved in the Higher Level, with differences in the quantity of films studied and pages written for the independent study, and a shorter film and smaller production portfolio required for the internal assessment. SL students also do not produce a trailer for their film.

**\*\*IB H1 Film (9838y)**

One year – 1 credit

Grade: 11

Recommended:

- Photography Foundation or Video Production
- IB Film Teacher's Recommendation is required

IB Film at SL aims to develop in students the skills necessary to achieve creative and critical independence in their knowledge, experience and enjoyment of film. Students will gain an appreciation and understanding of film as a complex art form, make critical evaluations of film productions, demonstrate their knowledge of film-making traditions in several countries, develop their abilities to formulate stories and ideas in film terms, and learn the practical and technical skills of production. This is the first year of a two-year course. The course is suitable for students with a well above average interest in film and is appropriate especially for students who wish to pursue film as a major at the college level or as a vocation. The course may be taken, however, by students who do not intend to continue with an art education after graduating, but are nevertheless highly interested and enthusiastic about film and can provide sufficient and appropriate evidence of previous skills and experience. The course follows the content and assessment procedures involved in the Higher Level. Students in the first year work to master the content and skills to produce a documentary script, as well as a short film, trailer, and an oral presentation of a detailed critical analysis of a scene in an assigned film.

**\*\*IB H2 Film (9839y)**

One year – 1 credit

Grade: 12

Recommended:

- IB H1 Film
- IB Film Teacher's Recommendation is required

In the second year of IB Film, students focus on their independent study project as well as their film and production portfolio and their oral skills to give a detailed critical analysis of a scene from a film.

**Design Communication 1 (9415y)**

One year – 1 credit

Grades 9, 10, 11, 12

Prerequisite: None

This is a study of visual communication in both two and three dimensions, promoting ideas and information through graphical and constructional forms. Following the design process, students will be taught to use a wide range of drawing, computer, and modeling techniques to achieve their final outcomes. Examples of student experiences are; free-hand drawing and sketching, technical drawing with instruments, color rendering techniques, package design and layout, scale modeling, and promotional displays. If an "A" average is earned at the conclusion of the course, a student may apply for approval to bypass Art 1.



Overpopulation, by Mia Choi, 10th grade.

## Design Communication 2 (9425y)

*One year – 1 credit*

*Grades 10, 11, 12*

*Prerequisite:*

- *Design Communication 1*
- *Visual Art Teacher's Recommendation is required*

As a continuation of Design Communication I, learning activities will include workshops to develop product models and prototypes as well as packaging, promotion, and marketing strategies including point-of-sale displays. More advanced computer-aided-design will also be presented through the year. Students will be encouraged to follow their personal interests in selecting assignments, which will be continually assessed. This course is intended for students interested in Engineering, Architecture or Graphic Design, and if an "A" average is earned, it may be accepted as a course leading to the IB Visual Art or Advanced Art programs. Upon teacher recommendation, this course may be taken for a second time.

## Design Technology 1 (9430y)

*One year – 1 credit*

*Grades 9, 10*

*Prerequisite: None*

Design Technology requires students to examine their environment, analyze and evaluate existing products and systems, and suggest their own alternative solutions to perceived needs. After developing their ideas graphically, students then select appropriate materials and techniques manufacture a chosen solution. A prototype or model is then produced using the latest available equipment and technology as used in Industry. Students will pursue the design process as practiced by professional designers. The course is project based, with approximately ten weeks devoted to each project. If an "A" average is earned at the conclusion of the course, a student may apply for approval to bypass Art 1.

## Design Technology 2 (9435y)

*One year - 1 credit*

*Grades 10, 11, 12*

*Prerequisite:*

- *Grade 'C' or better in Design Technology 1*
- *Visual Art Teacher's Recommendation is required*

This is a continuation of Design Technology I and will follow the same course structure; to develop projects utilizing more advanced manufacturing techniques and a greater knowledge of materials and equipment. During the first semester students will design projects utilizing predominantly wood and plastic forming techniques. Later in the second semester students will focus on design projects utilizing predominantly metalworking and engineering techniques and equipment. Students opting for the full-year course will be encouraged to develop more ambitious multi-material based projects that perhaps extend beyond one semester.

All course projects can be developed on an incline of difficulty/complexity and will be continually assessed. This course is intended for students interested in Engineering, Architecture or Graphic Design, and if an "A" average is earned, it may be accepted as a course leading to the IB Visual Art or Advanced Art programs. Upon teacher recommendation, this course may be taken for a second time.

## Music

A wide range of opportunities is offered in music, including both performance and academic courses. The student who plans to continue his/her music studies in university should participate in at least one performance group each year of high school. Placement in a performance group generally requires an audition. Music courses are elective and all students are welcome to participate. Students are expected to assume the cost of rental of school instruments and any required concert dress or costume. Students wishing to participate in extra-curricular music groups such as IASAS Music, Strings Chamber Music or Jazz Ensemble must be in a music class. Generally music classes are year long, but if a IB student will be enrolled in TOK, he or she may speak to the music teacher and counselor about the option of taking the music class as a semester long course, thus earning a half credit.

**Concert Choir (9220y)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite: None*

Concert choir is a performing group which is open to any student in the High School. The course is designed to introduce correct singing techniques, basic music theory concepts, note reading, general knowledge of musical symbols and terminology. Students will also begin developing aesthetic and cultural values through critical listening. Students will sing a wide variety of music from various musical disciplines and genres to master performance skills and attain enhanced awareness of the history and events surrounding the development of choral literature. The choir gives several concerts each year, on occasion featuring a performance of major choral works with orchestral accompaniment. This course may be repeated for credit. Attendance at all scheduled performances is required.

**Advanced Choir (9870y) (may be repeated)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite:*

- *Concert Choir*
- *Choir Teacher's Recommendation is required and obtained through Auditioning.*

The course is designed to build upon the musical and performing skills acquired in the Concert Choir which include correct singing technique, music theory, concepts, note reading, and a more in-depth study of musical symbols and terminology, and advanced performance techniques and skills. The choir gives several concerts each year, on occasion featuring a performance of major choral works with orchestral accompaniment. This course may be repeated for credit. Attendance at all scheduled performances is required.

**Joint Sound (9230y) (may be repeated)***One year – 1 credit**Grades 10, 11, 12**Prerequisite:*

- *At least one semester of HS Choir or Advanced Choir*
- *Choir Teacher's Recommendation is required and obtained through Auditioning.*

Joint Sound is the JIS madrigal ensemble/chamber choir. Joint Sound is devoted to the study and performance of A Cappella vocal literature. In addition to regular concert performances at school, Joint Sound holds a bi-annual madrigal dinner or A Cappella Festival. Students in the group are expected to practice at home and attend all concerts and rehearsals. Students must pay for their own costumes or uniforms. Joint Sound often performs at after school and evening functions.

**Music Theory (9285s)***One semester – ½ credit**Grades 9, 10, 11, 12**Prerequisite: None*

Students will learn the fundamentals of music and music composition (melody, harmony, rhythm, structure, styles, genres, and music history). Simple melodic and harmonic dictation; replication of scales, intervals, triads, etc. on the piano; and listening exercises to discern form and style are taught in this one semester course. Computer programs are introduced to show how music and sound may be created on a synthesizer. Knowledge of keyboard would be very helpful.

**Beginning Strings (9210y) (may be repeated)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite: None*

Beginning Strings is open to students who wish to learn an orchestral string instrument, i.e. violin, viola, cello or bass. No prior musical or instrumental experience is necessary. A student is expected to provide her or his own instrument whenever possible. Unless waived by the teacher, students using school-owned instruments will be charged a nominal rental fee. Concert dress and attendance at all scheduled performances are required.

### **Concert Strings (9240y) (may be repeated)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Two years' prior string ensemble experience and who have a sound knowledge of basic bowing and left-hand technique, including some third position.*
- *Instrumental Music Teacher's Recommendation is required*

Concert Strings is a performing group open to students who have at least two years' prior string ensemble experience and who have a sound knowledge of basic bowing and left-hand technique, including some third position. No audition is required. All 9th-graders who fulfill the above requirements and who wish to register for orchestra will be placed in Concert Strings. Members of Concert Strings will occasionally join other JIS High School instrumental ensembles in concert. Concert dress is required. With the exception of cellists and bassists, student must own their own instruments. Attendance at all scheduled general rehearsals and performances is required. Students wishing to participate in extra-curricular music groups such as IASAS Music or Strings Chamber Music must be in a year-long music class. On rare occasions, the orchestra may be asked to perform off campus.



### **String Sinfonia (9290y) (may be repeated)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Instrumental Music Teacher's Recommendation is required and obtained through Auditioning.*

String Sinfonia is an advanced performing ensemble for strings open to all students grade 9-12 upon instructor approval through audition. In addition to regular concert performances of classical string music, the Sinfonia may occasionally combine with other High School music ensembles to perform chamber or symphonic orchestral works. With the exception of cellists and bassists, students must own their own instruments. Concert dress is required. Attendance at scheduled general rehearsals and performances is required. On rare occasions, the orchestra may be asked to perform off campus. Students wishing to participate in extra-curricular music groups such as IASAS Music or Strings Chamber Music must be in a year-long music class.

### **Beginning Band (9250y) (may be repeated)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

This class is designed for students who desire to learn an instrument for the first time, or who wish to learn to play a new or second instrument. Students with no prior musical experience are welcome as are students who have sung or previously played an instrument. Only instruments of the woodwind, brass and percussion families are taught in this class. The teacher reserves the right to limit the types and numbers of instruments offered in the above three families to ensure proper ensemble balance. At the end of one semester, and at the teacher's discretion, students may then be allowed to move to a section of Concert Band or continue in Beginning Band. A student is expected to provide her or his own instrument whenever possible. Unless waived by the teacher, students using school-owned instruments will be charged a nominal rental fee. Attendance at all Beginning Band performances is required. Students wishing to participate in extra-curricular music groups such as IASAS Music or Jazz Ensemble must be in a year-long music class. Seniors must get advance permission from the director before they may sign up for the class.

**Concert Band (9260y) (may be repeated)***One year – 1 credit**Grades 10, 11, 12**Prerequisite:*

- *Beginning Band*
- *Instrumental Music Teacher's Recommendation is required*

Concert Band is open to all students in grades 9 - 12 with prior band experience. Students will perform Grade Level 2-3 band literature as well as learning and playing basic theory, including scales, modes, rhythms, etc. No audition is necessary, but it is expected that students applying have completed at least the equivalent of a Beginning Band class. At the very minimum, students are expected to be able to read music at a basic level. With the exception of large instruments, (examples: tuba, euphonium, bassoon, bass clarinet, baritone saxophone) students are encouraged to purchase their own instruments by the time they take this class. Attendance at all Concert Band performances is required. Students wishing to participate in additional extra-curricular music groups such as IASAS Music or Jazz Ensemble must be in a year-long music class.

**Wind Ensemble (9270y) (may be repeated)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite:*

- *Minimum one semester of Beginning or Concert Band*
- *Instrumental Music Teacher's Recommendation is required and obtained through Auditioning.*

Wind Ensemble is the top level band at JIS and is only open to students in grades 9-12 through a required interview with the teacher. Wind Ensemble performs Grade Level 4-5 band literature. In addition, students will build on the basic theory learned in Concert Band by learning and working in all major, minor and chromatic scales; modes; chords and advanced rhythms. Students who elect the IB Performance option will be required to complete additional work as prescribed by the IB. Normally these students will begin work in grade 11 and then sit the exam in year 12. Students must inform their teacher at the beginning of Grade 11 if they wish to pursue this course of study. Attendance at all scheduled performances is required. With the possible exception of large

instruments, (examples - tuba, euphonium, bassoon, bass clarinet, baritone saxophone) students are expected to purchase their own instruments. Students wishing to participate in extra-curricular music groups such as IASAS Music or Jazz Ensemble must be in a music class.

**Electronic Music (9280s) (may not be repeated)***One semester – ½ credit**Grades 10, 11, 12**Prerequisite: None*

This course will be a hands-on introduction to the history, theory, science and art of producing and modifying music using electronics. Students will learn to use synthesizers, microphones, mixers and other sound equipment to perform, compose, produce and record original music. Students will have to purchase their own CD's for class projects.

**\*IB S1 Music (9881y)***One year – 1 credit**Grade: 11**Prerequisite:*

- *Music Theory is highly recommended*
- *Ability to read music is required*
- *Instrumental Music Teacher's Recommendation is required*

This is the first year of a two-year International Baccalaureate Standard Level (IB S1) Music course. IB Standard Level Music is for students who do not plan to further their musical studies at a University, or pursue a musical career. The aim of the course is to explore the value and diversity of music across time, and in a variety of cultures. The class will enrich the education of any student pursuing other careers. This course also provides all students with the opportunity to engage in the world of music as lifelong participant. The class will be covering historical and theoretical survey of the major style periods of western and non western music. Students will study listen to, analyze, and write about variety of music. As mentioned under Prerequisites; the ability to read music prior to taking the class is a required component of the course. The successful completion of Music Theory is highly recommended to any student taking IB Music. The course will follow the IB curriculum; however, musically inclined non-IB students are permitted to take the course and will fulfill the IB assessment

aligned requirements. The non-IB students will complete aligned assessment components to legitimate their involvement, learning, and appropriately rewarded JIS grade.

### **\*IB S2 Music (9882y)**

*One year – 1 credit*

*Grade: 12*

*Prerequisite:*

- *IB S1 Music or IB H1 Music*
- *Instrumental Music Teacher's Recommendation is required*

Having successfully completed the first year International Baccalaureate S1 Music course, Seniors complete the IB S2 Music program concluding with the IB S2 Music examination. Students will continue listening to wide range of music from different musical cultures and time periods. The curriculum and assessment components of the IB S2 Music course are very similar to that of the IB H2 Music course with the exception being an IB S2 Music student has the option of choosing between creating music or recording solo or group performances. The course completes the student's preparation for the external part of examination, which includes musical analyses, study of prescribed work and musical investigation.

### **\*\*IB H1 Music (9886y)**

*One year – 1 credit*

*Grade: 12*

*Prerequisite:*

- *Music Theory is highly recommended*
- *Ability to read music is required*
- *Instrumental Music Teacher's Recommendation is required*

This is the first year of a two-year International Baccalaureate Higher Level (IB H1) Music course. This class would be more appropriate for student's pursuing a musical education at the university level and potentially interested in a musical career. The aim of the course is to explore the value and diversity of music across time, and in a variety of cultures. Aside from being a foundation for further study in music at university level the class will enrich the education of any student pursuing other careers that has an above-average interest in music. This course also provides all students with the opportunity to engage in the world of music as lifelong participant. The class will be covering

historical and theoretical survey of the major style periods of western and non western music. Students will study listen to, analyze, and write about variety of music. The course will follow the IB curriculum; however, musically inclined non-IB students are allowed to take the course and will fulfill the IB assessment aligned requirements. The non-IB students will complete aligned assessment components to legitimate their involvement, learning, and appropriately rewarded JIS grade.

### **\*\*IB H2 Music (9887y)**

*One year – 1 credit*

*Grade: 12*

*Prerequisite:*

- *IB H1 Music*
- *Instrumental Music Teacher's Recommendation is required*

Having successfully completed IB H1 Music course, Seniors complete the IB H2 Music program which concludes with the IB H2 Music examination. The students will continue listening and analyzing a wide range of musical styles and genres in world music. While it mainly focused on musical investigation and prescribed work, the course will also focus on further developing knowledge and understanding in music theory and composition. The course completes the student's preparation for external part of examination, which includes musical analyses, study of prescribed work and work on musical investigation.



# Theater

The High School Theatre program is designed to provide a flexible and exciting program allowing students to maximize the opportunity to study theatre throughout their four years.

## **Theater Workshop: “Ensemble & Truthful Acting” (Semester 1 only) (9530s)**

*One semester – ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

The ensemble is the foundation which supports all our work in theatre. Students develop their acting skills using the 'Meisner Approach,' which has as its goal 'truthful behavior under imaginary circumstances.' Participation in high school productions is encouraged but not required.

## **Theater Workshop: “Scene Work & Improvisation” (Semester 2 only) (9540s)**

*One semester – ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

Working from scripted scenes, student-devised scenes and improvisation, students develop their acting skills and character development. Students will read a variety of scripts, both in class and at home. Participation in high school productions is encouraged but not required.

## **Theater Workshop: “Theatre Practices & Traditions” (Semester 1 only) (9560s)**

*One semester – ½ credit*

*Grade 9, 10, 11, 12*

*Prerequisite: None*

Students research, rehearse and perform pieces from a variety of theatre practices and traditions. Some student work will be performed in a public venue. Students will read a variety of scripts, both in class and at home. Participation in high school productions is encouraged but not required.

## **Theater Workshop: “Devising Original Theatre” (Semester 2 only) (9570s)**

*One semester – ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

Students work in small and full-class ensembles devising, rehearsing and performing original pieces of theatre. Some student work will be performed in a public venue. Students will research a variety of theatre practices and traditions. This course is highly recommended for students wishing to take IB H1 Theatre Arts. Participation in high school productions is encouraged but not required.

## **\*IB S1 Theater Arts (9845y)**

*One year – 1 credit*

*Grade: 11*

*Prerequisite: None*

International Baccalaureate (IB) Standard level Theater Arts program is open to grade 11 students who have an interest in the world of theater. IB S1 Theater Arts students will not sit the IB Standard level assessment until the completion of IB S2 Theater Arts. As mentioned in under Prerequisites; without previous involvement in Theater Workshops an IB S1 Theater Arts student will struggle throughout the course.

visual & performing arts



### **\*IB S2 Theater Arts (9846y)**

*One year – 1 credit*

*Grades 12*

*Prerequisite:*

- *IB S1 Theater Arts or IB H1 Theater Arts*
- *Theater teacher's recommendation is required*

Having successfully completed the first year International Baccalaureate S1 Theater Arts course, Seniors complete the Standard I Level program through IB S2 Theater Arts. The Standard level consists of all components listed in Higher, thus follows a very similar format as the Higher Level course.

### **\*\*IB H1 Theater Arts (9850y)**

*One year - 1 credit*

*Grade 11, 12*

*Prerequisite: None*

This is the first year of a two-year International Baccalaureate Higher Level (IB H1) Theater Arts course. IB H1 Theatre Arts focuses on three aspects of the curriculum. Theatre in the Making, allows students to explore the different processes involved in making theatre, to develop the skills required to make theatre and to observe and reflect on different theatre practices. Theatre in the World, involves students in investigation of theatre in its historical and cultural context. Students acquire a knowledge and understanding of the theatrical traditions of their own culture, as well as of those cultures that are unfamiliar to them. Theatre in Performance involves students in various aspects of presenting theatre, where practical skills can be applied in different roles, as performers and part of the production team.

### **\*\*IB H2 Theater Arts (9860y)**

*One year - 1 credit*

*Grade 12*

*Prerequisite:*

- *IB H1 Theater Arts*
- *Theater Arts Teacher's Recommendation is required*

IB H2 Theatre Arts focuses on completing the four aspects of the IB Theater assessment. In the Research Investigation students undertake personal dramaturgical research into an unfamiliar theatrical practice for the production of a play or theatre piece. This culminates in essay of 2,000–2,500 words plus visual documentation and/or textual references. For the Practical Performance Proposal students adopt a directorial perspective and write a proposal for staging a performance, originating from one of the IBO prescribed performance stimuli. It includes written work, scenarios, images, storyboards and any other materials that convey the essence of the proposed performance. The Theater Performance and Production Presentation is a 30 minute oral presentation on the student's involvement in the performance and production aspects of all areas of the core syllabus. Finally, the Independent Project allows students to pursue an independent interest in theatre. The project should be practical in nature and may involve the student working alone, with a class group, or with other people from outside the theatre course.

### **Theater Tech (9842s)**

*One semester – ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

Students learn a variety of skills and applications through work on actual theater productions. There is some theoretical design work, as well as opportunities for students to pursue particular areas of interest within technical theater.



### **Theater Tech – Advanced (9843s) (may be repeated)**

*One semester – ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Theater Tech - Foundation*

Advanced Theater technology builds upon the skills learned in Theater Tech Foundation. Practical design of stage lighting, costumes and sets are an integral part of the course. Students can enroll in the advanced course for a semester or repeat for a year long course.

## **Dance**

The High School Dance Program offers three varying levels of performance courses. The student who plans to continue his or her post-secondary dance studies should participate in as many dance classes the student's schedule permits. Placement in the higher level dance groups requires an audition. Dance courses are elective and all students are welcome to participate. Students wishing to participate in extra-curricular music groups such as IASAS Dance must successfully complete a semester dance class and then audition.

### **Dance Discovery (9310s) (may be repeated)**

*One semester – ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

Entry level dance technique class in which students are introduced to the basic elements of dance. Emphasis is placed on anatomically sound dance technique enhancing the dancer's range of flexibility, strength, and endurance. Additionally, choreographic skills are introduced through experimentation within various creative problem-solving opportunities in small groups. These activities will lead to culminating performances in a variety of settings. Students are responsible for the cost of dance wear and costuming.

### **Dance Design (9320s) (may be repeated)**

*One semester - ½ credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Dance Discovery*
- *Dance teacher's recommendation is required*

This course continues the study of choreography and dance technique. An intermediate level course, students will be exposed to more advanced movements and concepts centering on the basic elements of dance. They will be encouraged to create a short original work, in addition to further experimentation within more complex creative challenges. Students will perform in a number of concerts and are responsible for the cost of dance wear and costuming.

### **Advanced Theory and Performance of Dance (9330s) (may be repeated)**

*One semester - ½ credit*

*Grades 10, 11, 12 (Grade 9 possible only with Dance Teacher's recommendation)*

*Prerequisite:*

- *Dance Discovery or Dance Design*
- *Dance teacher's recommendation is required*

Intermediate to advanced level dance theory and technique class in which students experiment with the basic elements of dance at a sophisticated level emphasizing anatomically sound technique and complex improvisation experiments. Students will perform a number of concerts demonstrating a wide variety of choreography in a highly polished manner, and are responsible for the cost of dance wear and costuming.

## Electives

**These courses do not gain credit in a particular subject area (such as English, Technology etc.), but credits gained do count towards graduation requirements (total 22 credits).**

### **Creative Writing (1625s)**

*One semester - 1/2 elective credit*

*Grades 10, 11, 12*

*Prerequisite: None*

Semester 1: Creative Writing, Poetry

A one-semester course that introduces imaginative writing by focusing on the power of word and image, shape and punctuation in poetry. Students will try dozens of approaches, a few of which they will develop into published products. Although the course focuses on poetry, individual students may opt to work in prose. The course offers methodologies and techniques that can enable students to write better in any situation, imaginative or analytical, in their future.

Semester 2: Creative Writing, Narrative

A one-semester course that introduces imaginative writing by focusing on the development of plot, character and theme in personal, dramatic and fictional narratives. Students will try dozens of approaches, a few of which they will develop into published products. Although the course focuses on prose narrative, individual students may opt to work in poetry. The course offers methodologies and techniques that can enable students to write better in any situation, imaginative or analytical, in their futures.

### **Journalism (8385y)**

*One year - 1 elective credit*

*Grades 10, 11, 12*

*Prerequisite: Teacher approval, basic IT and keyboard skills*

Students are involved as editors, reporters, photographers and artists with Feedback, the high school student newsmagazine. Units of study include news gathering, news writing, page design, typography, layout and student press law. Students will work with industry standard desktop-publishing and imaging software in producing five or six issues of the magazine each year.

### **Teacher Aide (2600s)**

*One semester – ½ credit*

*Grades 11, 12*

*Prerequisite: Counselor approval/teacher recommendation*

This elective provides students with an opportunity to work with a JIS faculty member in a variety of settings. The nature of the work is determined by the supervising teacher but typically the work falls into one of, or a combination of, three broad categories: classroom aide (involves working with students in a classroom environment); clerical aide (assisting with tasks like word processing, filing, scanning, bulletin board maintenance); research/technology/subject aide (help in the library, assist in Theater classes, demonstrate software, analyse data, gather web resources). Students are given the opportunity to choose which kind of work they would like to do, but this choice is contingent on teacher demand. Aides are evaluated by their supervising teachers on a bi-weekly basis and their performance is measured against 5 criteria: demeanor, punctuality, use of assigned time, attendance and quality of work.

### **English for Academic Advancement (1400y)**

*(1 elective credit, not English credit)*

This class is designed to support EAL students (English as an additional language) with oral, reading, and writing assessment pieces from core content areas. The class operates in a tutorial/workshop mode and success is largely determined by the student's growing ability to acknowledge and adhere to process. Students identify several major core projects per semester and are expected to break these assignments down into manageable steps that include timelines, spot checks, and on-going teacher feedback. Additionally, class time may be spent developing specific oral, reading, and writing skills that are integral to academic success. Some students may be assigned to the class while others may choose to enroll in English for Academic Advancement. This description is also listed in the Electives section.

### **Learning Strategies (2210y)**

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Only students who qualify for this course may enroll*

This course is designed to meet the individual learning needs of students by teaching them to recognize their learning styles and needs as learners. Students work individually with a Learning Support Specialist to create attainable goals that they will be working on through the duration of the course. The course focuses on organization, time management, reading, writing, math and related study skills. In addition to providing individual skill instruction, this course predominantly supports success in the academic subject areas. Assessment in this course will be primarily based on progress toward the individual educational goals.

## **Accounting**

These electives will earn elective credit only. They do not fulfill the HS graduation technology credit.

### **Accounting 1 (8350y)**

*One year – 1 elective credit, 0 credit Technology*

*Grades 10, 11, 12*

*Prerequisite: None*

Any student interested in pursuing a business career at the post-high school level will benefit from this beginning accounting class. Students are introduced to basic accounting concepts and career options. The emphasis is on journalizing financial transactions, posting to ledgers, and preparing basic financial statements for merchandising and service businesses. Students progress through two complete accounting cycles - a proprietorship and corporation. Special units will cover automated accounting systems on PCs and spreadsheets. Upon successful completion of the course, students will be prepared for further study in accounting or business studies.

### **Accounting 2 (8360y)**

*One year - 1 credit elective, 0 credit Technology*

*Grades 11 or 12*

*Prerequisite: Successful completion of Accounting 1*

This advanced accounting course is primarily for students with career objectives in the accounting or financial professions. The course is designed for students who (1) want an accounting position upon graduation from high school; or (2) want to major in accounting or some phase of business in university. Students will continue to apply the accounting concepts and procedures used in Accounting I and expand their study with more in-depth analysis of the effects of business transactions on financial reports. There is an increased emphasis on corporate accounting and reporting. Students will be exposed to management and cost accounting. Units will be added to apply the accounting concepts with an automated accounting system. The emphasis will be on studying data from different businesses.

# Sample Selection Form

## Grade 9 2010-2011 Course Selection Form

(One possible combination of subjects)

**DO NOT USE PENCIL**

**Student's Name:** \_\_\_\_\_

**Student Number:** \_\_\_\_\_

Grade **NEXT year: 9** I **WILL** probably attend JIS Next Year: \_\_\_\_

I **WILL NOT** attend JIS Next Year: \_\_\_\_

{ Please  
check  
only one }

Current ESOL \_\_\_\_

### FIRST SEMESTER

| Number | Course                    | Initial |
|--------|---------------------------|---------|
| 1150y  | English 1                 |         |
| 7150y  | Physical Education Survey |         |
| 6110y  | Experimental Science      |         |
| 4150y  | Asian Studies             |         |
| 5220y  | Algebra & Geometry 2      |         |

### SECOND SEMESTER

| Number | Course                    | Initial |
|--------|---------------------------|---------|
| 1150y  | English 1                 |         |
| 7150y  | Physical Education Survey |         |
| 6110y  | Experimental Sciences     |         |
| 4150y  | Asian Studies             |         |
| 5220y  | Algebra & Geometry 2      |         |

### 6<sup>th</sup> and 7<sup>th</sup> Course Electives

In order to establish the required complement of seven courses, it is recommended that two additional subjects be selected from the following subject areas: Modern Languages, Technology and Visual and Performing Arts.

|       |                       |  |
|-------|-----------------------|--|
| 3105y | French 1              |  |
| 8340s | Computer Applications |  |

|       |                       |  |
|-------|-----------------------|--|
| 3105y | French 1              |  |
| 8340s | Computer Applications |  |

Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

# Blank Worksheet

## 2010-2011 Course Selection Form

DO NOT USE PENCIL

All six blocks on the top half of this form must be completed. Full year courses are designated with a “y” at the end of the course number (1303y), and semester courses with “s” (9303s).

### FIRST SEMESTER

| Number | Course | Initial |
|--------|--------|---------|
|        |        |         |
|        |        |         |
|        |        |         |
|        |        |         |
|        |        |         |
|        |        |         |

### SECOND SEMESTER

| Number | Course | Initial |
|--------|--------|---------|
|        |        |         |
|        |        |         |
|        |        |         |
|        |        |         |
|        |        |         |
|        |        |         |

### SEVENTH COURSES

A student may take a seventh subject in the areas of Visual and Performing Arts, P.E., Technology, Study Skills, and ESOL Support Classes.

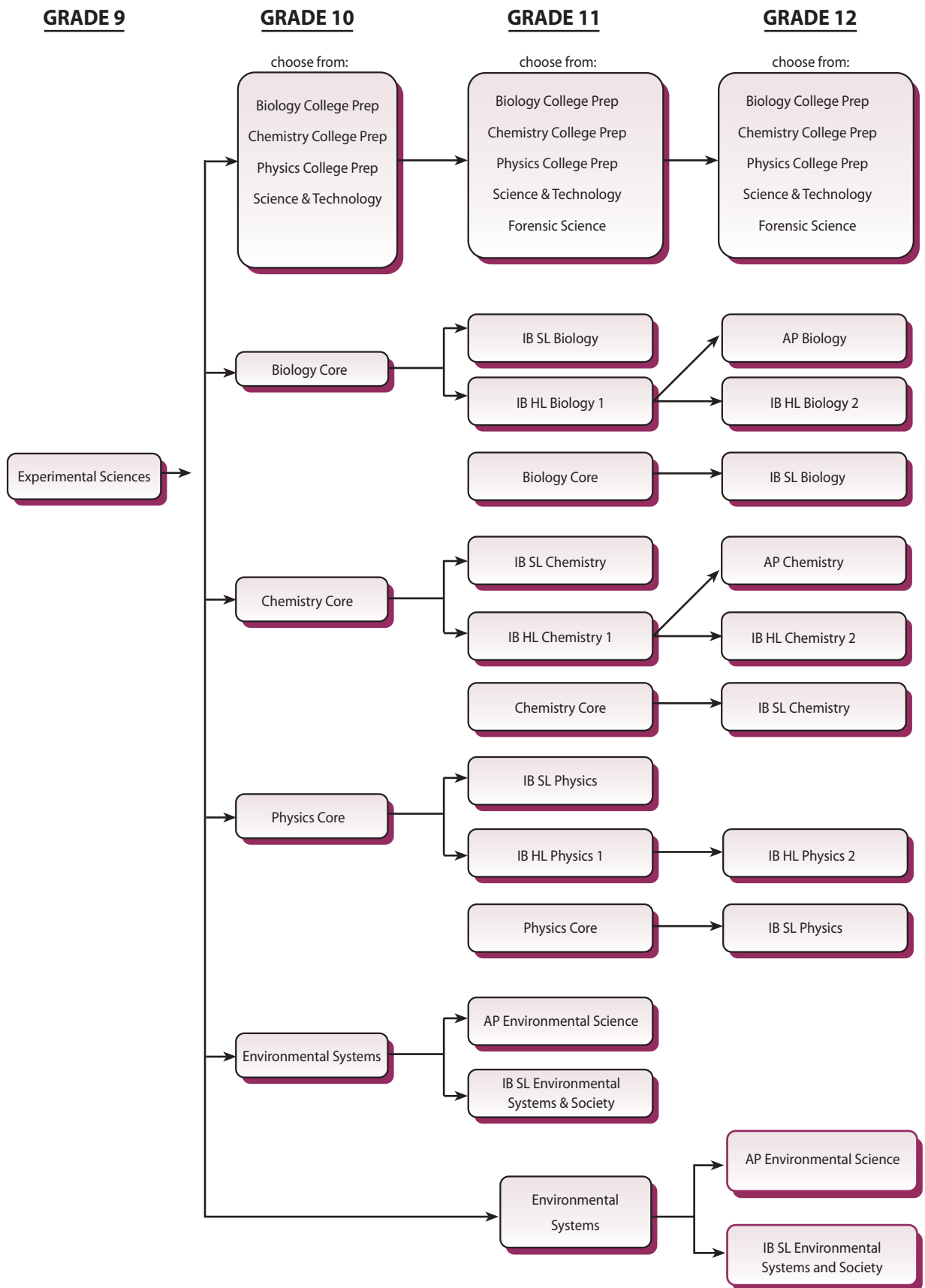
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### NOTES:

Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

# Science Flow Chart



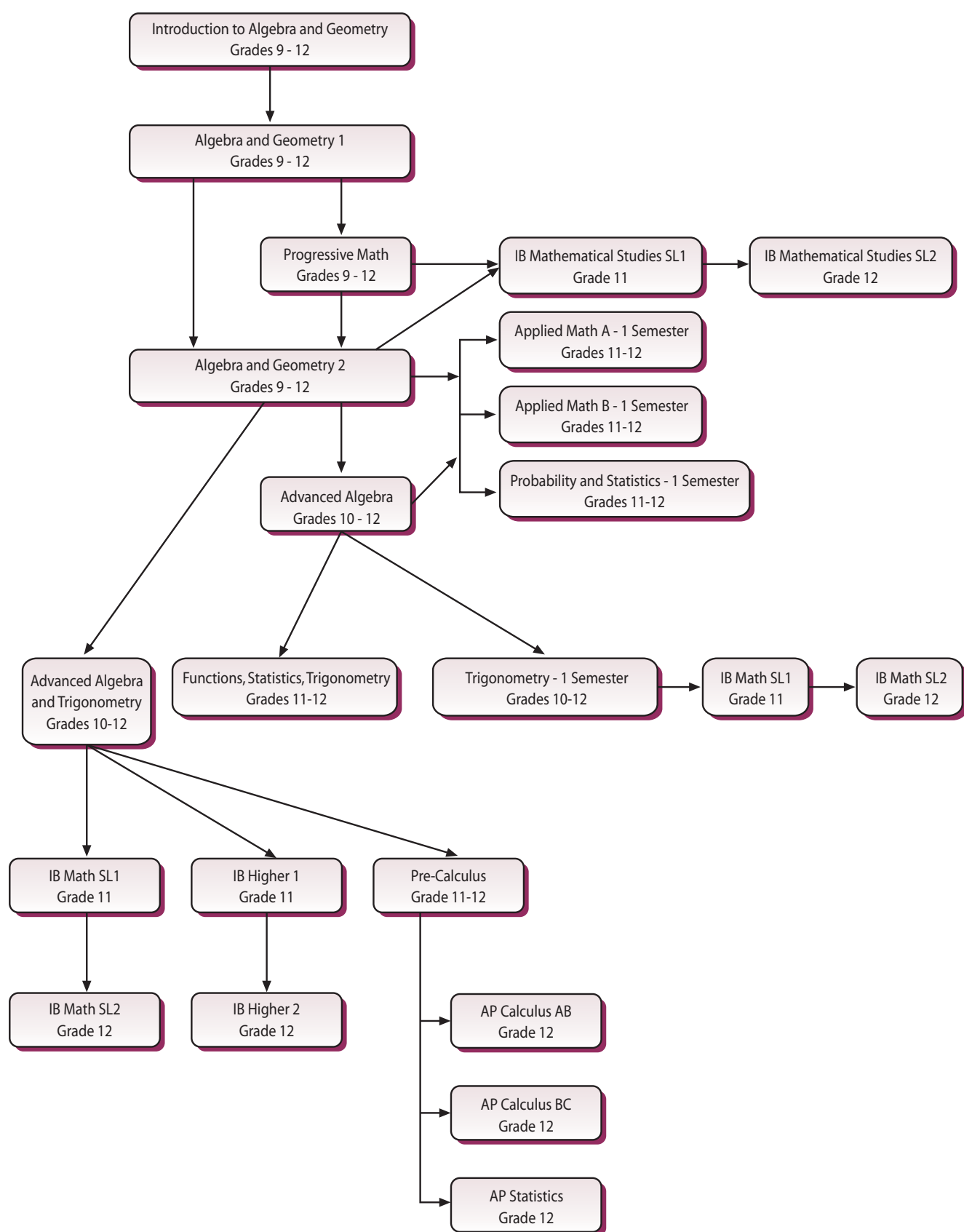
## English Flow Chart

The chart below represents the typical sequencing of courses for the vast majority of our students. Sequencing may vary somewhat when students enter the program late or midyear or where progress at any stage suggests a change of direction. English department elective courses not included in the chart below are Creative Writing and Journalism.

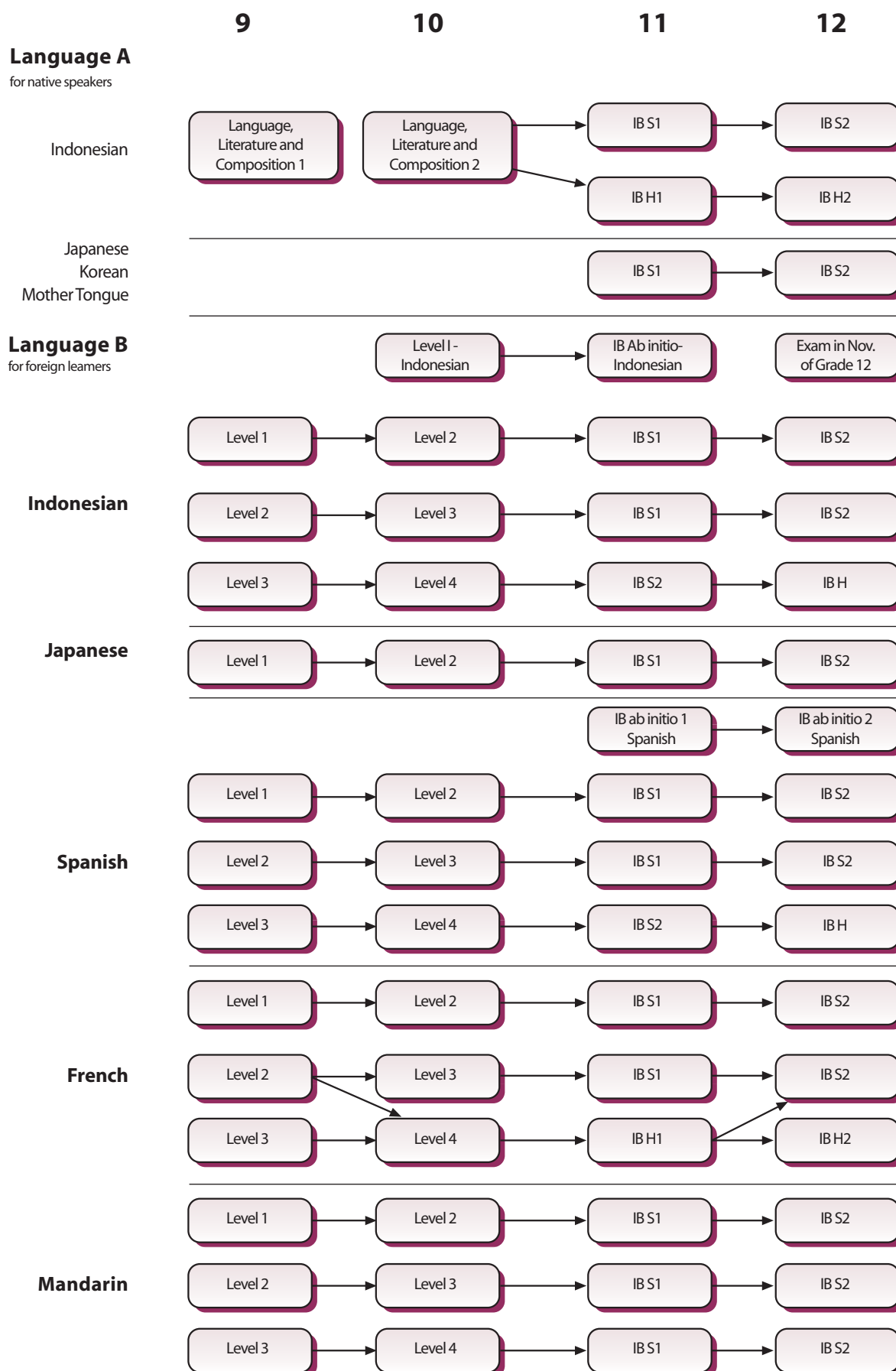
| Level or grade                                                                                                                                                                                                                                                                                                                                                         | Course titles                                                                                                                                              |                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Grade 9</b><br><br>Note: For a description of the distinction between English 9 and English 9 LE, see “English Support Programs: LE options”                                                                                                                                                                                                                        | <ul style="list-style-type: none"><li>English 9</li></ul> or <ul style="list-style-type: none"><li>English 9 LE and English Basics LE</li></ul>            |                                                                                                                                                                                                               |
| ↓                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                            |                                                                                                                                                                                                               |
| <b>Grade 10</b><br><br>Note: For a description of the distinction between English 10 and English 10 LE, see “English Support Programs: LE options”                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>English 10</li></ul> or <ul style="list-style-type: none"><li>English 10 LE</li></ul>                                |                                                                                                                                                                                                               |
| ↓                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                            |                                                                                                                                                                                                               |
| <b>Grade 11</b><br><br>Note: For the Grade 11 year, students may choose to begin their two-year course of study in the IB program. Non-IB students should enroll in English 11. Highly successful English 10 students, with their individual teacher's approval, may take AP Lit. and Comp. IB students will chose courses from the far right-hand side of this chart. | <ul style="list-style-type: none"><li>English 11</li><li>AP Lit. and Comp. (with English 10 teacher approval)</li></ul>                                    | OR <ul style="list-style-type: none"><li>IBS1 English A1</li><li>or</li><li>IBH1 English A1</li><li>or</li><li>IBS1 English A2</li><li>or</li><li>IBH1 English A2</li><li>or</li><li>IBH1 English B</li></ul> |
| ↓ ↓                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                            |                                                                                                                                                                                                               |
| <b>Grade 12</b><br><br>Note: Upon successful completion of English 11, students may choose to enter English 12 or either of the AP courses listed to the right. The courses listed to the far right of this chart represent the second year of two-year IB courses begun in Grade 11.                                                                                  | <ul style="list-style-type: none"><li>English 12</li><li>or</li><li>AP Language and Composition</li><li>or</li><li>AP Literature and Composition</li></ul> | OR <ul style="list-style-type: none"><li>IBS2 English A1</li><li>or</li><li>IBH2 English A1</li><li>or</li><li>IBS2 English A2</li><li>or</li><li>IBH2 English A2</li><li>or</li><li>IBH2 English B</li></ul> |

# Mathematics Flow Chart

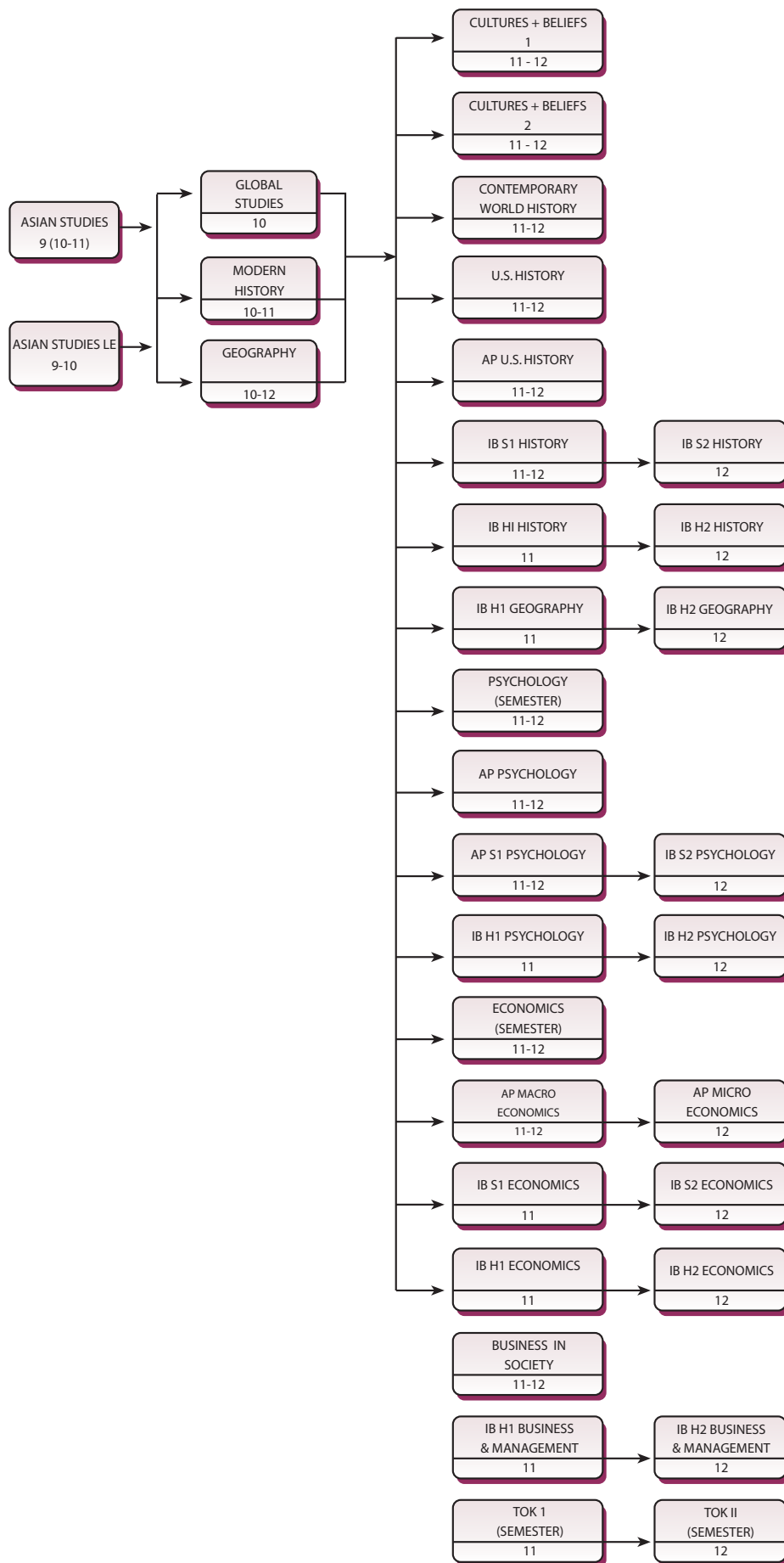
## for 2010-11 School Year



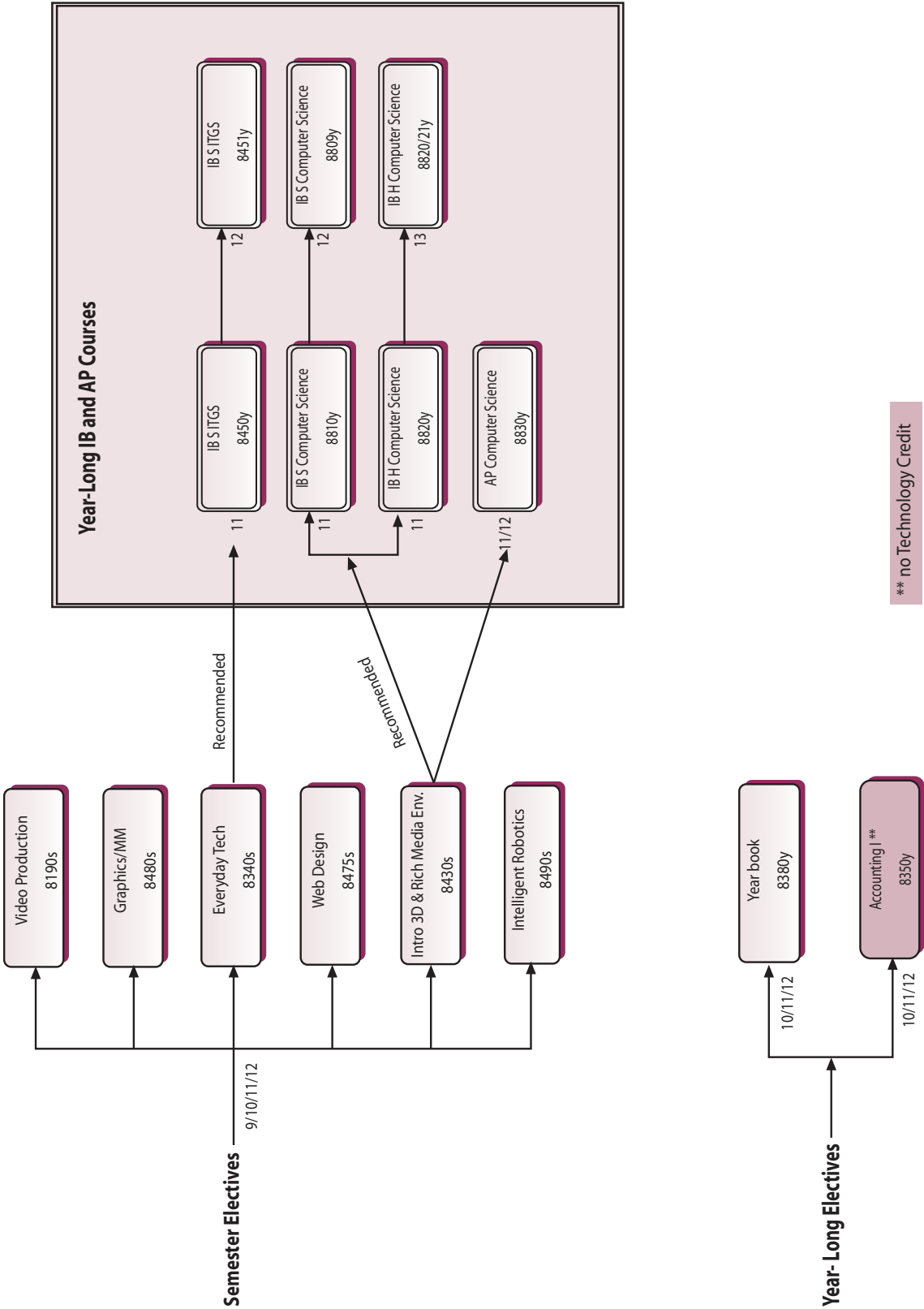
# Modern Languages Flow Chart



# Social Studies Flow Chart

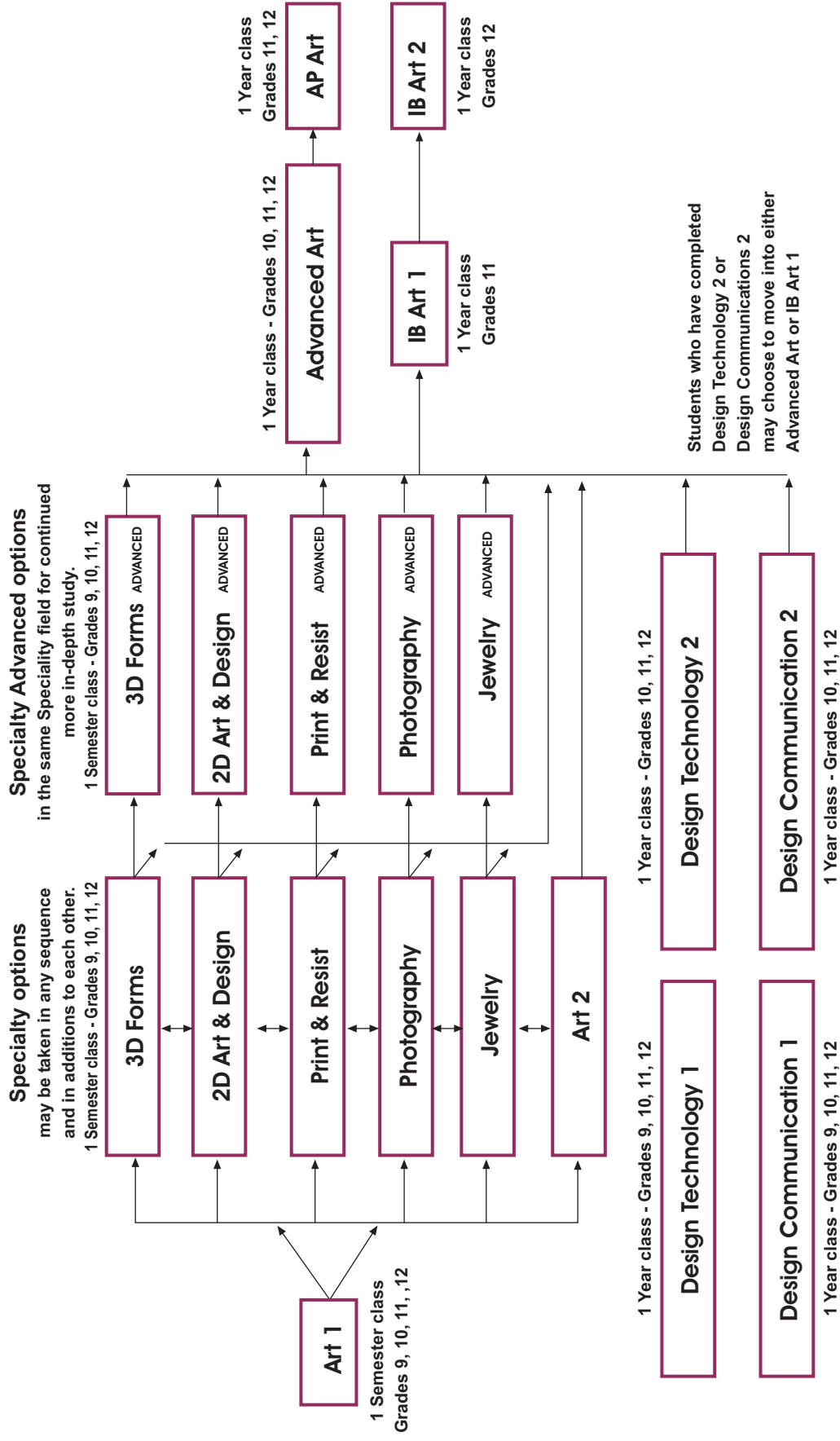


# Technology Flow Chart



## VISUAL ART CURRICULUM MAP

Overall view of courses, options, and paths



# Complete Course Code Listing

## English

1030y English Basics LE  
1150y English 9  
1200y English 9 LE

1250y English 10  
1300y English 10 LE

1350y English 11  
1810y IB S1 English A1\*  
1815y IB H1 English A1\*\*  
1811y IB S1 English A2\*  
1825y IB H1 English A2\*\*  
1820y IB H1 English B

1355y English 12  
1835y IB S2 English A1\*  
1840y IB H2 English A1\*\*  
1855y IB S2 English A2\*  
1850y IB H2 English A2\*\*  
1845y IB H2 English B  
1843y AP Literature and Composition\*\*  
1830y AP Language and Composition\*\*

## PE/Health

7150y Physical Education Survey  
7250s Health  
7350s Personal Training and Conditioning 1  
7360s Racket Sports  
7370s Lifetime Sports and Fitness  
7395s Fitness for Life  
7380s Aquatics  
7385s Team Sports  
7501s Personal Training and Conditioning 2 **NEW**  
7502s Independent Living **NEW**  
7503s First Aid & CPR Certified Course **NEW**  
7504 Adventure leadership **NEW**

## Modern Languages

3105y French 1  
3110y French 2  
3120y French 3  
3125y French 4

3305y Indonesian 1  
3310y Indonesian 2  
3311y Indonesian 3  
3312y Indonesian 4  
3320y Indonesian Language, Literature and Composition 1

3325y Indonesian Language, Literature and Composition 2  
3335s Indonesian Studies

3405y Japanese 1  
3410y Japanese 2

3605y Mandarin 1  
3610y Mandarin 2  
3615y Mandarin 3  
3620y Mandarin 4  
3629y IBS1 Mandarin B\*  
3630y IBS2 Mandarin B\* **NEW**

3505y Spanish 1  
3515y Spanish 2/IBS Spanish Ab Initio  
3520y Spanish 2  
3525y Spanish 3  
3530y Spanish 4

3839y IB S1 French B\*  
3840y IB S2 French B\*  
3845y IB H1 French B\*  
3850y IB H2 French B\*\*

3875y IB H1 Indonesian A1\*\*  
3876y IB H2 Indonesian A1\*\*  
3878y IB S1 Indonesian A1\*  
3879y IB S2 Indonesian A1\*  
3880y IB S2 Indonesian B\*  
3881y IB S1 Indonesian B\*  
3882y IB S Indonesian Ab Initio  
3885y IB H Indonesian B\*\*

3890y IB S1 Japanese A1\*  
3895y IB S2 Japanese A1\*  
3896y IB S1 Japanese B\*  
3899y IB S2 Japanese B\*  
3891y IB H1 Japanese A1\*\*  
3892y IB H2 Japanese A1\*\*

3900y IB S1 Korean A1\*  
3905y IB S2 Korean A1\*

3909y IB S1 Spanish B\*  
3910y IB S2 Spanish B\*  
3915y IB H Spanish B\*\*  
3514y IB S1 Spanish Ab Initio  
3515y IB S2 Spanish Ab Initio

3920y IB S1 Mother Tongue\*

## Social Studies

4150y Asian Studies  
4155y Asian Studies LE  
4250y Southeast Asian Studies

4255y Global Studies  
4260y Modern History  
4270y Geography

4350y U.S. History  
4360y AP U.S. History\*\*  
4410y Contemporary World History

4430s Psychology  
4440s Economics  
4460s Cultures and Beliefs 1  
4465s Cultures and Beliefs 2

4821y IB S1 History\*  
4825y IB H1 History\*\*  
4832y IB H2 History\*\*

4810y IB H1 Geography\*\*  
4815y IB H2 Geography\*\*

4840y IB H1 Psychology\*\*  
4845y IB H2 Psychology\*\*  
4846y IB S Psychology\*  
4848y AP Psychology\*\*

4851y IB S1 Economics\*  
4859y AP Macroeconomics\*\*  
4854y IB H1 Economics\*\*  
4865y IB H2 Economics\*\*  
4860y AP Microeconomics\*\*

4071y Business in Society  
4870y IB H1 Business and Management\*\*  
4875y IB H2 Business and Management\*\*

4880s Theory of Knowledge 2  
4881s Theory of Knowledge 1

## Mathematics

5115y Introduction to Algebra and Geometry  
5120y Algebra and Geometry 1  
5125y Progressive Mathematics  
5130y Applied Math A  
5140y Applied Math B  
5220y Algebra and Geometry 2  
5225y Advanced Algebra  
5230s Trigonometry  
5240y Advanced Algebra and Trigonometry  
5250y Functions, Statistics and Trigonometry  
5320y Pre-Calculus  
5410y AP Calculus AB\*\*  
5420y AP Calculus BC\*\*  
5805y IB Math SL 1\*  
5810y IB Math SL 2\*  
5815y IB Math Studies SL 1  
5820y IB Math Studies SL 2  
5830y IB Higher Math 1\*\*  
5840y IB Higher Math 2\*\*  
5850y AP Statistics\*\*

## Science

6110y Experimental Sciences  
6115y Experimental Sciences LE

6220y Biology College Prep.  
6225y Chemistry College Prep.  
6230y Physics College Prep.

6235s Science and Technology  
6890s Introduction to Forensic  
Science

6240y Biology Core  
6250y Chemistry Core  
6260y Physics Core

6817y Environmental Systems  
6819y IB SL Environmental Systems  
and Societies\*  
6818y AP Environmental Science\*\*

6820y IB SL Biology\*  
6825y IB HL Biology 1\*\*  
6830y IB HL Biology 2\*\*  
6831y AP Biology\*\*

6840y IB SL Chemistry\*  
6845y IB HL Chemistry 1\*\*  
6850y IB HL Chemistry 2\*\*  
6846y AP Chemistry\*\*

6860y IB SL Physics\*  
6865y IB HL Physics 1\*\*  
6870y IB HL Physics 2\*\*

## Technology

8190s Video Production  
8341s Everyday tech (formerly  
Computer Applications)  
8431s Introduction to 3D and Rich  
Media Environments (formerly  
Intro to Computer Lang)  
8451y IB S1 Information Technology  
in a Global Society\*  
8450y IB S2 Information Techno-  
logy in a Global Society\*  
8475s Web Design  
8480s Graphics to Multimedia  
8490s Intelligent Robotics  
8809y IB S1 Computer Science\*  
8810y IB S2 Computer Science\*  
8821y IB H1 Computer Science\*\*  
8820y IB H2 Computer Science\*\*  
8830y AP Computer Science \*\*  
8380y Yearbook  
8350y Accounting 1

## Visual Arts

9415y Design Communication 1  
9425y Design Communication 2  
9430y Design Technology 1  
9435y Design Technology 2

9600s Art 1

9605s Art 2

9610s 3D Forms  
(Specialty Course)  
9615s 3D Forms - Advanced  
(Specialty Course)  
9620s 2D Art & Design  
(Specialty Course)  
9625s 2D Art & Design - Advanced  
(Specialty Course)  
9630s Print & Resist  
(Specialty Course)  
9635s Print & Resist – Advanced  
(Specialty Course)  
9640s Photography  
(Specialty Course)  
9645s Photography - Advanced  
(Specialty Course)  
9650s Jewelry (Specialty Course)  
9655s Jewelry - Advanced  
(Specialty Course)

9660y Advanced Art  
9810y IB S2 Visual Arts\*  
9811y IB S1 Visual Arts\*  
9820y IB H1 Visual Arts\*\*  
9830y IB H2 Visual Arts\*\*

9825y AP Art **NEW**

9836y IB S1 Film  
9837y IB S2 Film  
9838y IB H1 Film  
9839y IB H2 Film

## Performing Arts

9210y Beginning Strings  
9220y Concert Choir  
9870y Advanced Choir  
9230y Joint Sound  
9240y Concert Strings  
9250y Beginning Band  
9260y Concert Band  
9270y Wind Ensemble  
9280s Electronic Music  
9285s Music Theory  
9290y String Sinfonia  
9310s Dance Discovery  
9320s Dance Design

9330s Advanced Theory and  
Performance of Dance  
9530s Theater Workshop:  
“Ensemble & Truthful Acting”  
(Semester 1)  
9540s Theater Workshop:  
“Scene Work & Improvisation”  
(Semester 2)  
9560s Theater Workshop:  
“Theatre Practices & Traditions”  
(Semester 1)  
9570s Theater Workshop:  
“Devising Original Theatre”  
(Semester 2)

9841s Advanced Theater 1  
9844s Advanced Theater 2  
9842s Theater Tech  
9843s Theater Tech – Advanced  
9840y IB S Theater Arts\*  
9845y IB S1 Theater Arts\*  
9846y IB S2 Theater Arts\*  
9850y IB H1 Theater Arts\*\*  
9860y IB H2 Theater Arts\*\*  
9880y IB S Music\*  
9881y IB S1 Music\*  
9882y IB S2 Music\*  
9886y IB H1 Music\*\*  
9887y IB H2 Music\*\*

## Electives unassigned to subject areas

2600s Teacher Aide  
2210y Learning Strategies  
1400y English for Academic  
Advancement  
(formerly Language Support)

8350y Accounting 1  
8360y Accounting 2  
1625s Creative Writing  
8385y Journalism  
2600s Teacher Aide  
2210y Learning Strategies

## Administrative Assignments

0509y Grade 9 Homeroom  
0515s Honor Pass  
2500 Study Hall

Note: s = semester course      y = year course

In the course descriptions above, courses marked with asterisk (\*) have been identified as academically challenging courses requiring a special grade weighting. One asterisk (\*) before a course title denotes a half-point weighting, two asterisks (\*\*) denotes a full point grade weighting. A grade weighting only affects GPA calculations, not actual grades on transcripts or report cards.



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