

2016-2017

HIGH SCHOOL
PUXI

COURSE
CATALOG



上海 Shanghai American School
An International Community



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SAS is fully accredited by the Western Association of Schools and Colleges (WASC) and is an IB World School. SAS is also a member of CIS, EARCOS, and NACAC.

SAS MISSION

Shanghai American School inspires in all students:
上海美国学校激励并培养所有的学生:

A lifelong passion for learning
终身学习的热情

A commitment to act with integrity and compassion
诚信和仁爱的信念

The courage to live their dreams.
追求梦想的勇气。



SAS CORE VALUES

We believe that:

- Embracing diversity enriches individuals and communities
- Acts of compassion and generosity of spirit create a better world
- When individuals take responsibility for their own decisions, they are empowered to make positive impact
- Each individual has intrinsic value and the potential to contribute to society
- Collaboration is key to overcoming complex challenges and achieving common goals
- Integrity is the foundation of enduring relationships, quality institutions and well-functioning communities
- As global citizens we have a duty to care for the earth and its inhabitants to ensure the well-being of humankind
- Creativity, critical thinking, and a lifelong passion for learning are essential to personal fulfillment and to meet the challenges of the future.

“BEST FIT” PHILOSOPHY

At Shanghai American School we counsel and strongly encourage families to select an academic program that is guided by our “Best Fit” philosophy. In short, this means taking a program of study that:

- Develops the student’s strengths, interests, and passions
- Matches the student's learning style
- Challenges the student to grow and develop into a vibrant member of our learning community
- Prepares the student to pursue their preferred course of study in the country of their choosing.

Learning what you like and what you’re good at will better prepare you for college than agonizing over what will “look good” to admission officers.

— Cornell

*We expect that you have taken a **rigorous curriculum** and chosen from among the most demanding courses available to you. **It isn’t necessary to have loaded your schedule with every advanced course offered at your school.** But if such courses are available to you, we expect that you have taken advantage of many of them.*

— Stanford University

Graduation Requirements

The School’s graduation requirements are designed to meet accreditation standards and entry requirements for a wide variety of colleges. To be eligible for high school graduation, a student must:

- Earn a minimum of 24 credits
- Attend eight semesters of high school in grades 9 to 12 (therefore no student may graduate early)
- Attend SAS for all of Grade 12

Subject area requirements for graduation include:

- English 4.0 credits
- Mathematics 3.0 credits
- Science 3.0 credits
- Social Studies 3.0 credits
- Fine Arts/Performing Arts 2.0 credits
- Foreign Language 2.0 credits (2 years of the same language)
- Physical Education/Health 2.0 credits
- Electives 5.0 credits



The International Baccalaureate (IB) Diploma Program

The International Baccalaureate Diploma Program is a rigorous preuniversity course of studies that meets the needs of highly motivated secondary school students.

Designed as a comprehensive two-year curriculum that allows its graduates to fulfill requirements of various national education systems, the diploma model is based on the pattern of no single country but incorporates the best elements of many. It is a deliberate compromise between the specialization required in some national systems and the breadth preferred in others.

The IB Diploma program is available in English, French and Spanish. At SAS the program is offered in English. All students who take IB courses are required to take the IB exam at the conclusion of the course. Students may register for individual IB courses or for the full IB diploma.



IB Diploma Subject Requirements

Diploma candidates are required to select one subject from each of the six subject groups. Usually three subjects are taken at Higher Level (HL) and three others at Standard Level (SL). Higher Level courses cover 240 teaching hours and Standard Level courses cover 150 teaching hours. Hence, over a two-year period, some subjects are studied in depth.

Additional IB Diploma Requirements

The program offers special features in addition to the six subjects of the curriculum that is central to the diploma.

Theory of Knowledge (TOK)

Students must complete an interdisciplinary course called Theory of Knowledge (TOK). This course is designed to stimulate critical reflection upon the knowledge and experiences gained inside and outside the classroom. TOK challenges students to question the basis of knowledge, to be aware of subjective and ideological biases, and to develop a personal mode of thought based on analysis of evidence expressed in rational argument. The key element in the IBO's educational philosophy, TOK seeks to develop a coherent approach to learning, which transcends and unifies the academic areas and encourages appreciation of other cultural perspectives.

Extended Essay (EE)

Students must undertake original research and write an extended essay of some 4,000 words. This offers the opportunity to investigate a topic of special interest from within one of their six examination subjects. It also acquaints students with the kind of independent research and writing skills expected at university. Each student works under the guidance of an appropriate subject teacher and will spend approximately 40 hours of private study and writing time to complete the essay.

Creativity, Activity, and Service (CAS)

Participation in the school's Creativity, Activity, and Service (CAS) program is intended to develop a student's creative, artistic and physical well being. The CAS requirement seriously considers the importance of life outside the world of scholarship, providing a refreshing counterbalance to the academic self-absorption some may feel within a demanding school program. It also considers seriously the goals of educating the whole person and fostering more compassionate citizenship. Through participation in CAS activities, students are encouraged to share their energies and special talents, while developing awareness, concern and the ability to work cooperatively with others.

Learner Profile

The aim of all IB Programmes is to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet, help to create a better and more peaceful world.



Examination Information

Students who register for IB courses must sit for the external exams in May. The registration fees and costs of the exams are the responsibility of the family.



Shanghai American School

An International Community

Puxi Campus

IB Course Offerings 2016-17

IB Diploma candidates choose:

- 3 HL courses and 3 SL courses
- 1 course from each of the 6 groups, plus Theory of Knowledge (TOK)
- A second course from Groups 1-4 may be substituted for a course in Group 6.

Group 1

- English A: literature HL/SL
- English A: language & literature HL/SL
- Chinese A: literature HL/SL
- Chinese A: language & literature HL/SL
- Self-taught Language A: literature SL

Group 2

- Mandarin B HL/SL
- Mandarin ab initio SL *
- French B HL/SL
- French ab initio SL *
- Spanish B HL/SL
- Spanish ab initio SL

Group 3

- Economics HL/SL
- History HL/SL
- Psychology HL/SL
- Environmental systems & societies SL
(can count as group 3 or 4 or as both 3 & 4)
- Information Technology in a Global Society *
- Philosophy *
- Business and Management *

Group 4

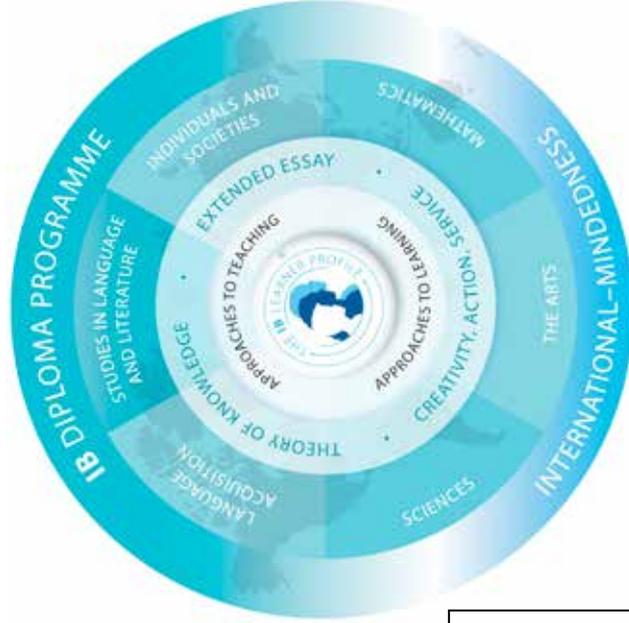
- Biology HL/SL
- Chemistry HL/SL
- Physics HL/SL
- Environmental systems & societies SL
(can count as group 3 or 4 or as both 3 & 4)
- Sports, Exercise & Health Sci SL
- Computer Science HL/SL

Group 5

- Mathematics HL
- Mathematics SL
- Mathematical Studies SL

Group 6

- Theatre HL/SL
- Visual Arts HL/SL
- Film HL/SL



* These courses will be taught through Pamoja, an on-line provider. Contact Mr. Veitch if you have any questions. john.veitch@saschina.org

IB University recognition link: <http://www.ibo.org/university-admission/recognition-of-the-ib-diploma-by-countries-and-universities/country-recognition-statements/>

CollegeBoard AP The Advanced Placement (AP) Program

The Advanced Placement (AP) Program is a challenging academic program designed to provide motivated high school students with college-level academic courses.

Established in 1955 by the College Board, the AP Program is considered a standard for academic excellence in the United States. AP courses with qualifying exam grades are accepted for credit, advanced placement or both, by most American colleges and universities.

In addition, AP courses and exam grades are used in the admissions process in more than 400 universities outside of the United States. Students enrolled in an AP course at SAS are required to take the AP exam in May.

AP now offers an AP International Diploma (APID) which was designed to accommodate American and international students at secondary schools in the United States and abroad who are applying to universities outside of the US. To qualify for the APID, students must earn AP grades of 3 or higher on four AP Exams in three of the five subject areas listed below. Students must take two exams in two different languages (Area I), either a science or mathematics exam (Area II and III), and one or more exams from a subject area not already selected. The registration fees and costs of the exams are the responsibility of the family.

Area I: Languages

Area II: Sciences

Area III: Mathematics

Area IV: History and Social Sciences

Area V: Electives

Students do not formally apply for the AP International Diploma. It is automatically awarded to any AP student who resides outside the United States and who successfully meets the diploma criteria. All SAS AP courses have been approved by the College Board.



AP Capstone™

AP Capstone is an innovative program developed by the College Board that gives students an opportunity to apply critical thinking, collaborative problem-solving, and research skills in a cross-curricular context.

AP Capstone is built on the foundation of a new, two-year high school course sequence — **AP Seminar** and **AP Research** — and is designed to complement and enhance the in-depth, discipline-specific study provided through AP courses. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Capstone was developed in response to feedback from higher education. The two AP Capstone courses, with their associated performance tasks, assessments, and application of research methodology, complement the rigor of AP courses and exams by challenging students to:

- Think critically and creatively to construct meaning or gain understanding
- Plan and conduct a study or investigation
- Propose solutions to real-world problems
- Plan and produce communication in various forms
- Collaborate to solve a problem
- Integrate, synthesize, and make cross-curricular connections

The AP Capstone program begins with the AP seminar course. Students may enroll in this class either grade 10 or grade 11. Students who elect to take this course in grade 10 will do so in lieu of their tenth grade social studies class. These grade 10 students will have the opportunity to earn their two remaining social studies credits in grades 11 and 12. A minimum of three social studies credits are needed in order for students to satisfy their SAS graduation requirements.

The AP Capstone Diploma or AP Capstone Certificate

Students successfully completing the AP Seminar, AP Research, and four or more AP classes and exams will receive the AP Capstone Diploma. Students successfully completing the AP Seminar and AP Research Exams will receive the AP Capstone Certificate.

Examination Information

Students who register for AP courses must sit for the external exams in May. The registration fees and costs of the exams are the responsibility of the family.

AP University recognition link:

<http://international.collegeboard.org/programs/ap-recognition>

AP Capstone Diploma™

Students who earn scores of 3 or higher in both of the AP Capstone courses and on four additional AP Exams of their choosing will receive the AP Capstone Diploma™.

AP Capstone Certificate™

Those students who earn scores of 3 or higher in both of the AP Capstone courses but not on the four additional AP Exams will receive the AP Capstone Certificate™, signifying successful performance in those courses.

AP SEMINAR (Year 1)

Team Project & Presentation

Research-based Essay & Presentation

Written Exam

AP RESEARCH (year 2)

Academic Thesis

Public Presentation and Defense

4 AP COURSES (Throughout High School)

AP EXAM 1

AP EXAM 2

AP EXAM 3

AP EXAM 4

<http://media.collegeboard.com/digitalServices/pdf/ap/ap-capstone-brochure.pdf>
For more information, please visit collegeboard.org/apcapstone



AP Capstone Program Year One: AP Seminar

This foundational course, available to grade 10, 11 and 12 provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students explore real-world issues through a cross-curricular lens and consider multiple points of view to develop deep understanding of complex issues as they make connections between these issues and their own lives.

Students read articles, research studies, and foundational and philosophical texts; listen to and view speeches, broadcasts, and personal accounts; and explore artistic and literary works to gain a rich appreciation and understanding of issues.

Teachers have the flexibility to choose appropriate themes that allow for deep exploration based on student interests, local and/or civic issues, global or international topics, and concepts from other AP courses.

Sample Topics or Themes:

- Education
- Innovation
- Sustainability
- Technology
- Revolution

Assessment: During the course, students will be assessed on:

- A team project
- An individual paper and presentation
- A written final exam
- The AP Seminar Exam will be based on all three components and be reported on the standard 1- 5 AP scoring scale.

AP Capstone Program Year Two: AP Capstone Research

The second course in the AP Capstone experience, available to grade 11 and 12, allows students to design, plan, and conduct a yearlong research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues.

Students further the skills acquired in their AP Seminar course by using research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information to build, present, and defend an argument.

Assessment: Students are assessed through culminating performance tasks:

- Academic thesis paper (approximately 5,000 words) with a defined structure.
- Public presentation, performance, or exhibition and oral defense of research and presentation.
- The AP Research Exam score will be based on the paper, presentation, and defense and will be reported on a 1-5 AP scoring scale.

AP Capstone Diploma

Students earning passing scores in the seminar course and on the research project, as well as scores of 3 or higher on a minimum of four additional AP Exams, will receive the AP Capstone Diploma, demonstrating their proficiency in college-level subject knowledge, as well as research, communication and collaborative skills.



Mother Tongue Language Program

Promoting international mindedness and intercultural awareness are intrinsic components of successful international education. At SAS we believe that embracing diversity enriches individuals and communities. Language lies at the center of cross-cultural competence, and we strongly promote students' acquisition of additional languages. We offer a robust Chinese Language Program that ranges from beginner to native-level fluency. In addition, we offer French and Spanish for students as an additional language.

Many students at Puxi High School come from diverse language backgrounds and possess near native proficiency in their mother tongue. In order to support all of our students in the preservation of their linguistic and cultural heritage, we are excited to include the Mother Tongue Program. The program is facilitated by an experienced Mother Tongue Program Coordinator. Under the instruction and supervision of the coordinator, mother tongue language will be offered as a core course during the school day to grade 9 and 10 students. Students who then wish to continue the study of their mother tongue in grades 11 and 12 can do so through the IB Self-Taught program, which operates under the same structure as the mother tongue program.

Mother tongue is designed for students who could be considered native, bilingual, or near-native speakers of their mother tongue and focuses on the study of literature and culture. The Mother Tongue Coordinator and language specific tutors provide instruction; yet the students bear the majority of the intellectual challenge in a self-study format. The Mother Tongue Coordinator instructs the students on the specific skills related to the study of literature and composition with the tutors providing mother tongue support. Additional fees may apply.

The reasons for supporting the preservation and development of a person's mother tongue are many, all of which are aligned with the school's mission statement. These reasons include the following:

- the preservation and development of mother tongues foster the celebration of diversity and enable cross cultural awareness, appreciation, and understanding.
- the preservation and development of mother tongues enable the development of higher order cognitive skills, and
- the preservation and development of mother tongues enable people who are members of small cultural subgroups better to maintain and transmit cultural identity within a multicultural community.
- the preservation and development of mother tongues provides students with the language skills to successfully study at university of their country of origin.

Course Sequencing

Students enrolled in the Mother Tongue Language Program have the opportunity to take the following courses:

Mother Tongue Grade 9
 Mother Tongue Grade 10
 IB Self Taught Language A1 Y1 Grade 11
 IB Self Taught Language A1 Y2 Grade 12

For more information about the Mother Tongue Language Program, please contact Ms. Caroline Fogiel, Mother Tongue Program Coordinator (caroline.fogiel@saschina.org).



Innovation Institute

The Innovation Institute is a transformational approach to education in which students are empowered to solve real-world problems through collaborative and creative processes. The Institute places the learner at the center of the educational experience and challenges them to think critically and apply their learning to complex, interdisciplinary tasks. Students are asked to stretch themselves beyond the traditional learning framework by engaging in Project Based Learning that requires the use of 21st Century Skills, including critical thinking, creativity, communication, and collaboration.

The Innovation Institute is founded on four core principles. They are:

1. Provide a 21st Century Learning environment where students actively apply the skills of communication, collaboration, creativity, and critical thinking.
2. Integrate core academic disciplines so that students explore learning concepts by making connections across academic domains.
3. Incorporate relevant, real-life situations through effective implementation of project-based learning.
4. Offer an education that deepens students understanding and requires them to develop their academic skills, while teaching the same subjects using the same resources that have become the hallmark of an excellent SAS education.

Participation in the Innovation Institute requires a two-year commitment for students in grades 9 and 10. Students are placed into

a small learning community with four teachers who collaborate closely in order to provide an integrated learning experience. Students will take four of their seven courses in the Institute. These courses are noted below:

Grade 9

English 9
Asian History
Physics-Chemistry Lab Science
Creativity & Design

Grade 10

English 10
AP Seminar
Biology Lab Science
Innovation & Design

Because SAS is a standards-based school, students will receive instruction driven by the SAS standards and benchmarks in the same courses that their grade-level peers take. What differentiates the Institute is that the curriculum is taught through the lens of a year long theme which allows students to explore the topics in an applied, real-world manner. Students deepen their exploration of important content by engaging in project based learning where they are tasked to apply their learning. Students are assessed through traditional assessments such as quizzes, exams, essays; however, they will also be asked to apply their learning through collaborative projects that address real-world issues.

For more information about the Innovation Institute please contact Mr. Tom Musk at tom.musk@saschina.org.



Master Course List

| English page 12 | | | |
|---|------------------|---------|----------|
| Course | Course Code | Credits | Grades |
| English 9 | HS1000 | 1 | 9 |
| English 10 | HS1001 | 1 | 10 |
| Genres in Literature | HS1402 | 1 | 11 |
| Contemporary Nonfiction | HS1401 | 1 | 11 |
| Contemporary Fiction | HS1400 | 1 | 12 |
| World Literature | HS1403 | 1 | 12 |
| IB English A: Literature SL Y1-Y2 | HS1110 HS1120 | 2 | 11 12 |
| IB English A: Literature HL Y1-Y2 | HS1130 HS1140 | 2 | 11 12 |
| IB English A: Lang. & Lit. SL Y1-Y2 | HS1111 HS1121 | 2 | 11 12 |
| IB English A: Lang. & Lit. HL Y1-Y2 | HS1131 HS1141 | 2 | 11 12 |
| AP English Language & Composition | HS1200 | 1 | 11,12 |
| AP English Literature & Composition | HS1201 | 1 | 11,12 |

| Mathematics page 16 | | | |
|---|------------------|---------|----------|
| Course | Course Code | Credits | Grades |
| Integrated Math 1 | HS3203 | 1 | 9 |
| Geometry | HS3001 | 1 | 9,10,11 |
| Algebra 2 | HS3002 | 1 | 10,11,12 |
| Algebra 2/Trigonometry | HS3003 | 1 | 9,10,11 |
| Core Pre-Calculus | HS3004 | 1 | 11,12 |
| Adv Pre-Calculus | HS3005 | 1 | 10,11 |
| Calculus | HS3006 | 1 | 10,11,12 |
| Multivariable Calculus & Series | HS3204 | 1 | 12 |
| IB Math Studies Y1-Y2 | HS3110 HS3120 | 2 | 11 12 |
| IB Math SL Y1-Y2 | HS3111 HS3121 | 2 | 11 12 |
| IB Math HL Y1-Y2 | HS3131 HS3141 | 2 | 11 12 |
| AP Calculus AB | HS3200 | 1 | 11,12 |
| AP Calculus BC | HS3201 | 1 | 11,12 |
| AP Statistics | HS3202 | 1 | 11,12 |

| Social Studies page 20 | | | |
|--|------------------|---------------------|----------|
| Course | Course Code | Credits | Grades |
| Asian History | HS2000 | 1 | 9 |
| US History | HS2002 | 1 | 10 |
| Modern World History | HS2001 | 1 | 11,12 |
| Applied Economics & Business | HS2018 | 1 | 11,12 |
| IB Information Technology in a Global Society SL Y1-Y2 * | HS2110 HS2120 | 2 | 11 12 |
| IB Information Technology in a Global Society HL Y1-Y2 * | HS2130 HS2140 | 2 | 11 12 |
| IB History SL Y1-Y2 | HS2111 HS2121 | 2 | 11,12 |
| IB Psychology SL Y1-Y2 | HS2113 HS2123 | 2 | 11 12 |
| IB Psychology HL Y1-Y2 | HS2133 HS2143 | 2 | 11 12 |
| IB Economics SL Y1-Y2 | HS2114 HS2124 | 2 | 11 12 |
| IB Economics HL Y1-Y2 | HS2134 HS2144 | 2 | 11 12 |
| IB Philosophy SL Y1-Y2 * | HS2145 HS2146 | 2 | 11 12 |
| IB History HL Y1-Y2 | HS2131 HS2141 | 2 | 11 12 |
| IB Business & Management SL Y1-Y2 * | HS2117 HS2127 | 2 | 11 12 |
| IB Business & Management HL Y1-Y2 * | HS2137 HS2147 | 2 | 11 12 |
| IB Environmental Systems & Society SL Y1-Y2 | HS4115 HS4125 | 1 Science 1 S.S. | 11 12 |
| AP European History | HS2201 | 1 | 11,12 |
| AP US History | HS2202 | 1 | 10,11,12 |
| AP Psychology | HS2203 | 1 | 11,12 |
| AP Economics | HS2204 | 1 | 11,12 |
| AP Comparative Government & Politics | HS2205 | 1 | 11,12 |

* These courses will be taught online through Pamoja (see page 60 for more details).



| Science page 26 | | | |
|--|------------------|-------------------------|----------|
| Course | Course Code | Credits | Grades |
| Physics-Chemistry Lab Science | HS4007 | 1 | 9 |
| Biology Lab Science | HS4008 | 1 | 10 |
| Earth & Space Science | HS4029 | 1 | 11,12 |
| Independent Research & Design | HS4207 | 1 | 11,12 |
| Chemistry | HS4004 | 1 | 11 |
| IB Biology SL Y1-Y2 | HS4110 HS4120 | 2 | 11 12 |
| IB Biology HL Y1-Y2 | HS4130 HS4140 | 2 | 11 12 |
| IB Chemistry SL Y1-Y2 | HS4111 HS4121 | 2 | 11 12 |
| IB Chemistry HL Y1-Y2 | HS4131 HS4141 | 2 | 11 12 |
| IB Physics SL Y1-Y2 | HS4112 HS4122 | 2 | 11 12 |
| IB Physics HL Y1-Y2 | HS4132 HS4142 | 2 | 11 12 |
| IB Environmental Systems & Society SL Y1-Y2 | HS4115 HS4125 | 1 Science 1 S.S. | 11 12 |
| IB Sports, Exercise & Health Science SL Y1-Y2 | HS7030 HS7031 | 1 Science 1 Elective | 11 12 |
| AP Biology | HS4200 | 1 | 11,12 |
| AP Chemistry | HS4201 | 1 | 11,12 |
| AP Physics 1 | HS4210 | 1 | 11,12 |
| AP Physics C: Mechanics, Electricity & Magnetism | HS4206 | 1 | 12 |



| Global Languages page 31 | | | |
|---|------------------|---------|------------|
| Course | Course Code | Credits | Grades |
| French I | HS5001 | 1 | 9,10,11,12 |
| French II | HS5002 | 1 | 9,10,11,12 |
| French III | HS5003 | 1 | 9,10,11,12 |
| IB French B SL Y1-Y2 | HS5110 HS5120 | 2 | 11 12 |
| IB French B HL Y1-Y2 | HS5130 HS5140 | 2 | 11 12 |
| IB French <i>ab initio</i> SL Y1-Y2* | HS5151 HS5152 | 2 | 11 12 |
| Spanish I | HS5005 | 1 | 9,10,11,12 |
| Spanish II | HS5006 | 1 | 9,10,11,12 |
| Spanish III | HS5007 | 1 | 9,10,11,12 |
| IB Spanish B SL Y1-Y2 | HS5111 HS5121 | 2 | 11 12 |
| IB Spanish B HL Y1-Y2 | HS5131 HS5141 | 2 | 11 12 |
| IB Spanish <i>ab initio</i> SL Y1-Y2 | HS5155 HS5156 | 2 | 11 12 |
| IB Self-Taught Language A1 SL Y1-Y2 | HS5102 HS5103 | 2 | 11 12 |
| Mother Tongue 9/10 | HS5040 | 1 | 9,10 |

| Chinese Language page 35 | | | |
|---|------------------|---------|------------|
| Course | Course Code | Credits | Grades |
| Foundation Chinese | HS5024 | 1 | 9,10,11,12 |
| Foundation Chinese – High | HS5025 | 1 | 9,10,11,12 |
| Intermediate Chinese | HS5026 | 1 | 9,10,11,12 |
| Intermediate High Chinese (b) | HS5027B | 1 | 9,10,11,12 |
| Advanced Chinese (b) | HS5028B | 1 | 9,10,11,12 |
| Advanced High Chinese (b) | HS5029B | 1 | 9,10,11,12 |
| Chinese Language A (a) | HS5030A | 1 | 9,10,11,12 |
| IB Mandarin <i>ab initio</i> SL * | HS5159 HS5150 | 2 | 11 12 |
| IB Mandarin B SL Y1-Y2 | HS5113 HS5123 | 2 | 11 12 |
| IB Mandarin B HL Y1-Y2 | HS5133 HS5143 | 2 | 11 12 |
| IB Chinese A: Lang. & Lit. SL Y1-Y2 | HS5114 HS5124 | 2 | 11 12 |
| IB Chinese A: Lang. & Lit. HL Y1-Y2 | HS5134 HS5144 | 2 | 11 12 |
| IB Chinese A: Literature SL Y1-Y2 | HS5115 HS5125 | 2 | 11 12 |
| IB Chinese A: Literature HL Y1-Y2 | HS5135 HS5145 | 2 | 11 12 |

* This course will be taught online through Pamoja (see page 60 for more details).

| Visual Arts page 42 | | | |
|---|------------------|---------|------------|
| Course | Course Code | Credits | Grades |
| Art Foundation | HS6205 | 1 | 9,10,11,12 |
| Creativity & Design* | HS6050 | 1 | 9 |
| Innovation & Design* | HS6051 | 1 | 10 |
| Intermediate Art Studio | HS6207 | 1 | 10,11,12 |
| Sculpture | HS6005 | 1 | 10,11,12 |
| Advanced Art Studio | HS6208 | 1 | 11,12 |
| Digital Studio | HS8401 | 1 | 10,11,12 |
| Graphic Design | HS8010 | 1 | 10,11,12 |
| Science, Technology, Engineering & Mathematics - S.T.E.M. | HS6052 | 1 | 10,11,12 |
| IB Visual Art SL Y1-Y2 | HS6110 HS6120 | 2 | 11 12 |
| IB Visual Art HL Y1-Y2 | HS6130 HS6140 | 2 | 11 12 |
| AP Art Drawing | HS6206 | 1 | 11,12 |
| IB Film SL Y1-Y2 | HS8165 HS8175 | 2 | 11 12 |
| IB Film HL Y1-Y2 | HS8185 HS8195 | 2 | 11 12 |

* For the Grade 9 / Grade 10 Innovation Institute students only.

| Performing Arts page 46 | | | |
|--|------------------|---------|------------|
| Course | Course Code | Credits | Grades |
| Concert Choir 1 | HS6020 | 1 | 9,10,11,12 |
| Concert Choir 2 | HS6021 | 1 | 9,10,11,12 |
| Concert Band 1 | HS6022 | 1 | 9,10,11,12 |
| Concert Band 2 | HS6023 | 1 | 9,10,11,12 |
| Orchestra 1 | HS6024 | 1 | 9,10,11,12 |
| Orchestra 2 | HS6025 | 1 | 9,10,11,12 |
| Guitar 1 | HS6026 | 1 | 9,10,11,12 |
| Guitar 2 | HS6027 | 1 | 9,10,11,12 |
| Introduction to Drama | HS6028 | 1 | 9 |
| Introduction to Theatre | HS6029 | 1 | 10,11,12 |
| Advanced Theatre Arts Y1 | HS6030 | 1 | 11 |
| Advanced Theatre Arts Y2 | HS6031 | 1 | 12 |
| Stagecraft & Theatre Production A | HS6032A | 0.5 | 10,11,12 |
| Stagecraft & Theatre Production B | HS6032B | 0.5 | 10,11,12 |
| IB Theatre SL Y1-Y2 | HS6112 HS6122 | 2 | 11 12 |
| IB Theatre HL Y1-Y2 | HS6132 HS6142 | 2 | 11 12 |
| AP Music Theory | HS6201 | 1 | 11,12 |

| Physical and Health Education page 50 | | | |
|--|-------------|---------|--------|
| Course | Course Code | Credits | Grades |
| Physical & Health Education I | HS7000 | 1 | 9 |
| Physical & Health Education II | HS7001 | 1 | 10 |
| PE III – Personal Fitness | HS7002 | 0.5 | 11,12 |
| PE III – Sports League | HS7003 | 0.5 | 11,12 |
| PE III – Swimming & Water Safety Instructor | HS7006 | 0.5 | 11,12 |
| PE III – Lifeguarding | HS7007 | 0.5 | 11,12 |

| Elective Courses page 54 | | | |
|---|------------------|-------------------------|------------|
| Course | Course Code | Credits | Grades |
| Creative Writing A | HS8300 | 0.5 | 11,12 |
| Creative Writing B | HS8301 | 0.5 | 11,12 |
| Theory of Knowledge Y1-Y2 | HS8101 HS8102 | 1 | 11 12 |
| IB Computer Science SL Y1-Y2 | HS8115 HS8125 | 2 | 11 |
| IB Computer Science HL Y1-Y2 | HS8135 HS8145 | 2 | 11 12 |
| Science, Technology, Engineering & Mathematics - S.T.E.M. | HS6052 | 1 art credit | 10, 11, 12 |
| AP Computer Science Principles | HS8204 | 1 | 11,12 |
| AP Computer Science A | HS8201 | 1 | 11,12 |
| AP Capstone Seminar | HS8202 | 1 | 10,11,12 |
| AP Capstone Research | HS8400 | 1 | 11,12 |
| IB Sports, Exercise, & Health Science SL Y1-Y2 | HS7030 HS7031 | 1 Science 1 Elective | 11 12 |

| Learning Support & English as an Additional Language (EAL) page 58 | | | |
|---|-------------|---------|------------|
| Course | Course Code | Credits | Grades |
| Learning Support | HS8901 | 0 | 9,10,11,12 |
| EAL Academic Literacy | HS8007 | 1 | 9 |
| EAL Flex 9 | HS9030 | 0 | 9 |
| EAL Flex 10 | HS9032 | 0 | 10 |

| Online Learning page 59 | | | |
|--|-------------|---------|--------|
| Course | Course Code | Credits | Grades |
| Pamoja Education | HS0 | TBD | 11,12 |
| Virtual High School | HS9100 | TBD | 11,12 |

Homework Guide

Each course description has a statement for the average number of hours of homework you can expect per week. This will help you manage your time and make wise choices in course requests. The following is a guide to the homework descriptions:

- LIGHT = 0–2 hours/week
- MODERATE = 2–4 hours/week
- HEAVY = 4 or more hours/week

Remember, these are estimates based on an average student. These estimates will vary depending on a student's English language ability, learning style, work habits, time management skills, or aptitude in the subject area.

Be realistic, consider your strengths and weaknesses, and keep in mind a balanced lifestyle.

ENGLISH COURSES

ENGLISH DEPARTMENT FLOW CHART

Grade 9 students must enroll in:

English 9

Grade 10 students must enroll in:

English 10

Grade 11 students may choose any of the courses below based on meeting prerequisites:

Contemporary Nonfiction

Genres in Literature

AP English Language & Composition

AP English Literature & Composition

IB English A:
Language & Literature SL/HL
(two-year course)

IB English A:
Literature SL/HL
(two-year course)

Grade 12 students may choose any of the courses below based on meeting prerequisites:

AP English Language & Composition

Contemporary Fiction

AP English Literature & Composition

World Literature

Legend

- AP course
- IB course
- SAS course

English 9

Course Code: HS1000

Duration: Year

Prerequisites: None

Credits: 1.0

In this course, students analyze a wide range of literature that is connected to a variety of different cultures. Students study at least four of the following genres: novel, short story, poetry, drama, and nonfiction. The literature serves not only as a vehicle for understanding human experience more richly but also as a means for developing critical thinking, language, and communication skills. Students learn the tools of literary analysis and explore a variety of writing styles and forms. Oral communication skills are developed through participation in seminars, discussions, and oral/dramatic presentations.

Homework: Moderate



English 10

Course Code: HS1001

Duration: Year

Prerequisites: English 9

Credits: 1.0

In this course, students study a wide range of historical and contemporary American literature, covering the following genres: novel, short story, poetry, drama, and nonfiction. Students are encouraged to make connections between the literature and their experiences as multicultural students. The writing process is used to allow students to explore a variety of writing styles and forms. Students' oral communication skills are developed through participation in seminars, discussions, and oral/dramatic presentations.

Homework: Moderate



Genres in Literature

Course Code: HS1402

Duration: Year

Prerequisites: English 10

Credit: 1.0

This course is an opportunity for students to explore some different genres within the arc of literature. In most courses until now, students will have studied traditional genres of poetry, novels, short stories, non-fiction, etc. This course will explore some of the sub-genres of literature such as: the graphic novel, fantasy, memoir, horror, dystopian fiction, etc. This course develops the skills of close reading and literary analysis, as well as both written and oral expression. Students will be expected to produce a variety of assessment pieces including a research paper or project, written essays, oral presentations, creative pieces, and visual projects.

Homework: Moderate



Contemporary Non-fiction

Course Code: HS1401

Duration: Year

Prerequisites: English 10

Credit: 1.0

In this course, students will examine a variety of nonfiction and media texts, which may include essays, memoirs, graphic novels, speeches, informational texts, editorials and documentary film. Students will analyze writer's style, examine how social and cultural context influence the writer and reader, and evaluate informational texts to determine their purpose and effectiveness. Students are expected to participate in class discussions and write both informal and formal compositions in addition to completing a research project. This class is intended as an alternative to the traditional fiction-based literature course.

Homework: Moderate



Contemporary Fiction

Course Code: HS1400

Duration: Year

Prerequisites: Must be in Grade 12

Credit: 1.0

This course will explore contemporary literature from the United States, Canada and the UK. Students will be challenged to increase their understanding of others and the world in which they live. Students will be expected to read critically, comprehend, and respond to the works through class discussions and written assignments. In addition, students are encouraged to connect aspects of the literature they read with their own personal knowledge and experience. Although the main focus of the course is literature, speaking and writing skills will also be emphasized, culminating in a research paper or project.

Homework: Moderate



World Literature

Course Code: HS1403

Duration: Year

Prerequisites: Must be in Grade 12

Credit: 1.0

This course will explore literature from around the world. Students will be challenged to increase their understanding of others and the world in which they live. Students will be expected to read critically, comprehend, and respond to the works through class discussions and written assignments. In addition, students are encouraged to connect aspects of the literature they read with their own personal knowledge and experience. Although the main focus of the course is the reading of literature, speaking and writing skills, including research, will also be emphasized.

Homework: Moderate



IB English A: Literature SL Y1-Y2

Course Code: HS1110 (Y1), HS1120 (Y2)

Duration: Two years

Prerequisites: English 10

Credits: 2.0

This course is designed for students interested in developing their analytical skills through the study of literary texts. The course is divided into four parts:

- Part I – Reading of 3 works originally written in another language other than English
- Part II – A detailed study of 2 works from different genres: one play and one novel.
- Part III – A focused study of 3 works from one genre (i.e. dramatic texts)
- Part IV – A study of 3 texts chosen freely by the instructor with the aim of bringing balance and cohesion to the two year course.

This course focuses on literary texts and helps to develop a deeper appreciation for the art of literature. Students read 11 works of literature at the standard level. The emphasis of the course will be on developing the skill of independent literary analysis and the powers of expression in both written and oral communication through the study of literature. Written compositions, exams, and oral commentary will be assessed through internal (school) and external (IBO) assessments. This course is highly recommended for students interested in pursuing a degree in the humanities.

Homework: Heavy

**IB English A: Literature HL Y1-Y2**

Course Code: HS1130 (Y1), HS1140 (Y2)

Duration: Two years

Prerequisites: English 10

Credits: 2.0

This course is designed for students interested in developing their analytical skills through the study of literary texts. The course is divided into four parts:

- Part I – Reading of 3 works originally written in another language other than English
- Part II – A detailed study of 3 works from different genres: drama, novel, and poetry
- Part III – A focused study of 4 works from one genre (i.e. dramatic texts)
- Part IV – A study of 3 texts chosen freely by the instructor with the aim of bringing balance and cohesion to the two year course.

This course focuses on literary texts and helps to develop a deeper appreciation for the art of literature. Students read 13 works of literature at the higher level. The emphasis of the course will be on developing the skill of independent literary analysis and the powers of expression in both written and oral communication through the study of literature. At Higher Level a greater depth of material is covered and there is an expectation that students will exhibit more sophisticated and developed analytical skills. Two of the assessment tasks for HL are more demanding than those of SL. In addition, the external assessment criteria require the HL students to show a deeper understanding of content and greater ability to analyze a writer's techniques than SL students. Written compositions, exams, and oral commentary will be assessed through internal (school) and external (IBO) assessments. This course is highly recommended for students interested in pursuing a degree in the humanities.

Homework: Heavy

**IB English A: Language & Literature SL Y1-Y2**

Course Code: HS1111 (Y1), HS1121 (Y2)

Duration: Two years

Prerequisites: English 10

Credits: 2.0

The Language and Literature course is designed to encourage students to question the meaning generated by language and texts. Students will develop their analytical skills through the study of literary texts, nontraditional texts and topics dealing with language in cultural context, and language in mass communication.

The course will include, but is not limited to:

- A study of rhetoric and the impact of language use beyond that of literary analysis.
- An exploration of the connections between language and power, language and culture, and language and mass communication.
- Recognition of the importance of a writer's world and audience.
- Recognition of the impact of a reader's context on (multiple) readings of a text.
- Preparation for university-level writing for a variety of majors.

Written compositions, exams, and oral commentary will be assessed through internal (school) and external (IBO) assessments.

Homework: Heavy

**IB English A: Language & Literature HL Y1-Y2**

Course Code: HS1131 (Y1), HS1141 (Y2)

Duration: Two years

Prerequisites: English 10

Credits: 2.0

The Language and Literature course is designed to encourage students to question the meaning generated by language and texts. Students will develop their analytical skills through the study of literary texts, nontraditional texts and topics dealing with language in cultural context, and language in mass communication.

The course will include, but is not limited to:

- A study of rhetoric and the impact of language use beyond that of literary analysis.
- An exploration of the connections between language and power, language and culture, and language and mass communication.
- Recognition of the importance of a writer's world and audience.
- Recognition of the impact of a reader's context on (multiple) readings of a text.
- Preparation for university-level writing for a variety of majors.

In addition to studying additional topics and reading additional texts, HL students are required to submit one additional written task for external IBO assessment. Two of the IBO assessment tasks for HL are more demanding than those of SL. The external assessment criteria require that HL students show a deeper understanding of content and demonstrate the ability to write a comparative analysis of texts.

Written compositions, exams, and oral commentary will be assessed through internal (school) and external (IBO) assessments.

Homework: Heavy



AP English Language & Composition

Course Code: HS1200

Duration: Year

Prerequisites: English 10

Credits: 1.0

The main goal of AP English Language and Composition is to develop the high-level skills students will need to read and write effectively in their college courses and in their personal and professional lives. Students will read and write many different kinds of essays: argumentative, expository, analytical, personal, and creative. Students signing up for AP English Language need to have the basic skills necessary to handle a high-level composition course. In addition, a high degree of responsibility for class participation and independent learning is expected from students. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



AP English Literature & Composition

Course Code: HS1201

Duration: Year

Prerequisites: English 10

Credits: 1.0

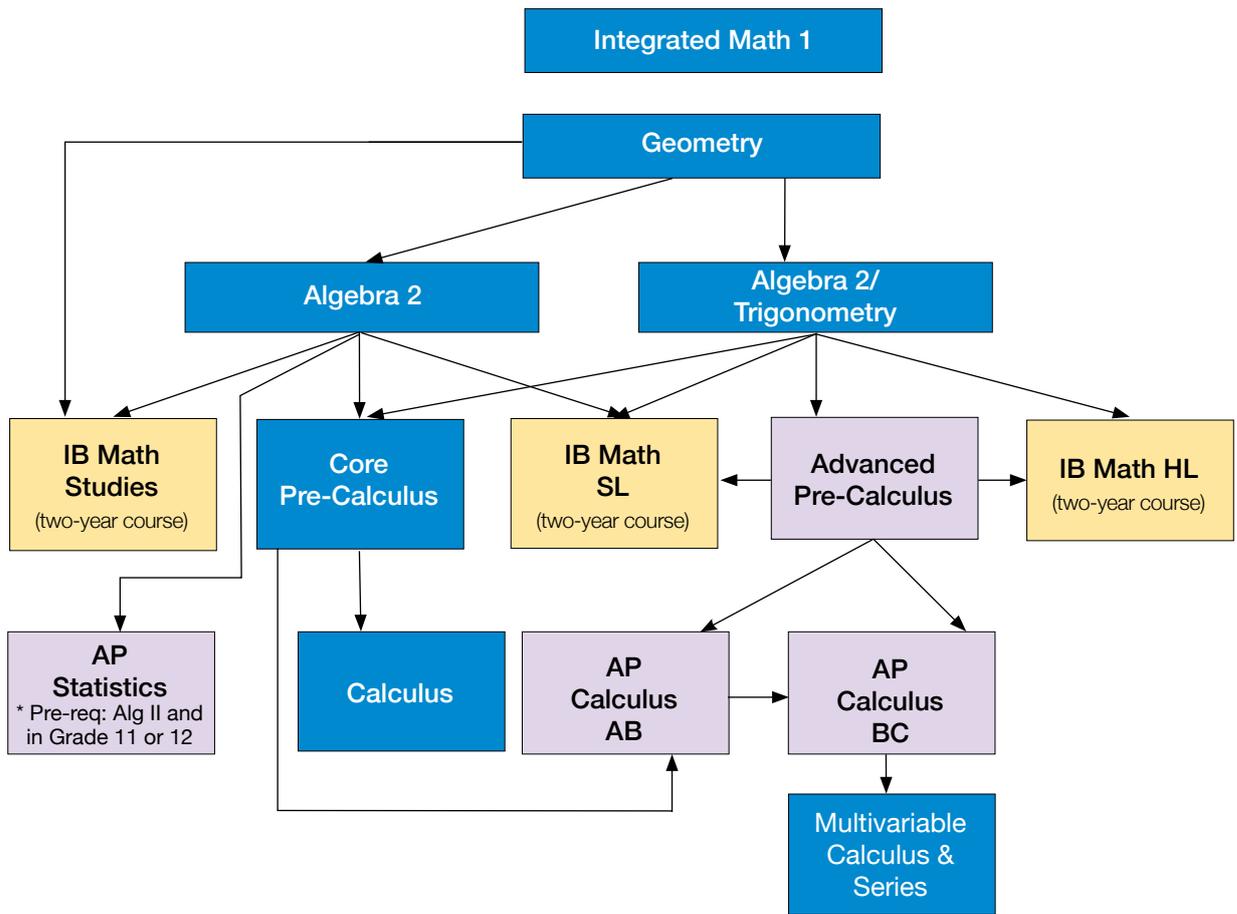
The AP English Literature and Composition course will engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide meaning and pleasure as well as such smaller scale elements as the use of figurative language, imagery, symbolism, and tone. The course will include intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. In addition to considering a work's literary artistry, the students will confront the author's explicit or implicit teaching about life. Writing will be an integral part of the AP English Literature and Composition course, will focus on the critical analysis of literature and will include expository, analytical, and argumentative essays. All students enrolled must sit the College Board exam in May.

Homework: Heavy



MATHEMATICS COURSES

MATHEMATICS DEPARTMENT FLOW CHART



Legend

- AP course
- IB course
- SAS course

Integrated Math 1

Course Code: HS3203

Duration: Year

Prerequisites: None

Credits: 1.0

Integrated Math I topics include recognizing and developing patterns using tables, graphs and equations. Mathematical modeling is stressed as a methodology for approaching the solution to problems. Students will explore operations on algebraic expressions, and apply mathematical properties to algebraic equations. Students will problem solve using equations, graphs and tables and investigate linear relationships, including comparing and contrasting options and decision-making using algebraic models. Reinforcement of topics from two-dimensional Geometry is integrated into this curriculum. This includes applications from the areas of perimeter and area, the Pythagorean Theorem and its applications, as well as geometric proportion. Finally, introductory instruction in the area of mathematical probability is provided to reinforce use of fractions and numerical modeling. Technology will be used to introduce and expand upon the areas of study listed above.

Homework: Moderate



Geometry

Course Code: HS3001

Duration: Year

Prerequisites: Algebra 1

Credits: 1.0

Geometry is a course designed for students who have successfully completed Algebra I. Students explore relationships between angles, lines, triangles, quadrilaterals, circles, and 3-dimensional figures using inductive and deductive reasoning. Algebra, problem solving, logic and proof-writing are elements of this course. Students are encouraged to purchase a TI 84+ calculator. If they choose not to, a scientific calculator is required.

Homework: Moderate



Algebra 2

Course Code: HS3002

Duration: Year

Prerequisites: Algebra 1 and Geometry or equivalent

Credits: 1.0

This course is designed for students whose primary interests lie outside mathematics and the physical sciences. Core topics include linear equations and systems, linear programming, quadratic equations, exponential and logarithmic functions and equations, statistics and data analysis, and trigonometry including ratios and formulas.

Note: This course is intended for students who have gaps in some of the prerequisite skills and knowledge needed to be successful in Algebra 2/Trigonometry. Students are required to purchase a TI 84+ calculator.

Homework: Moderate



Algebra 2/Trigonometry

Course Code: HS3003

Duration: Year

Prerequisites: Geometry

Credits: 1.0

This course expands on the topics introduced in Algebra 1 and Geometry with emphasis on linear equations and systems, non-linear equations and systems, polynomials, quadratic equations, exponential and logarithmic functions and equations, statistics and data analysis, and trigonometric ratios and functions. Students are required to purchase a TI 84+ calculator.

Homework: Moderate to Heavy



Core Pre-Calculus

Course Code: HS3004

Duration: Year

Prerequisites: Algebra 2 or Algebra 2/Trigonometry

Credits: 1.0

The major focus of this course is on functions. Topics covered include relations, functions and their graphs, polynomials, right triangle trigonometry, laws of sine/cosine, trigonometric identities, graphing of sine and cosine functions, advanced functions and conics. This course is designed for students with gaps in Algebra and prepares them for Calculus. Students are required to purchase a TI 84+ calculator.

Homework: Moderate



Advanced Pre-Calculus

Course Code: HS3005

Duration: Year

Prerequisites: Algebra 2/Trigonometry

Credits: 1.0

This course expands on topics introduced in Algebra 2/Trigonometry and introduces topics needed for further study of mathematics in AP Calculus or in IB Math HL. Advanced Pre-Calculus is recommended for students who are above average in mathematics ability. Topics of study include relations, advanced functions and graphs, trigonometry, vector and parametric equations, sequences and series, combinatorics and probability, and conics. Time permitting, polar coordinates and complex numbers will also be studied. Attention will be given to applying the above concepts to real-world problems. Students are required to purchase a TI 84+ calculator.

Homework: Moderate to Heavy



Calculus

Course Code: HS3006

Duration: Year

Prerequisites: Core Pre-Calculus

Credits: 1.0

This course explores limits, derivatives of algebraic and transcendental functions, differentiation techniques, related rates, definite integrals, indefinite integrals and anti-differentiation, numerical integration, areas of planar regions, volumes and surface areas of solids of revolution. Students are required to purchase a TI 84+ calculator.

Homework: Light to Moderate



IB Math Studies Y1-Y2

Course Code: HS3110 (Y1), HS3120 (Y2)

Duration: Two years

Prerequisites: Geometry or Algebra 2

Credits: 2.0

This course is designed for students whose primary interests lie outside mathematics and the physical sciences. Core topics covered include functions, approximation, algorithms, sequences and series, sets, logic, applications involving compound interest, introduction to probability, statistics, trigonometry, linear programming, geometry in three dimensions, differential calculus, and applications to finance. Writing a mathematical exploration and working on precise math communication are significant parts of this course. Students are required to purchase a TI 84+ calculator.

Homework: Moderate

**IB Math SL Y1-Y2**

Course Code: HS3111 (Y1), HS3121 (Y2)

Duration: Two years

Prerequisites: Algebra 2 or Algebra 2/Trigonometry

Credits: 2.0

This course is designed for students with a sound background in mathematics. It prepares students for various areas of university studies such as business, medicine, psychology, economics and others. The topics studied include algebra, functions and equations, circular functions and trigonometry, vectors, statistics and probability, differential and integral calculus. Writing a mathematical exploration and working on precise math communication are significant parts of this course. Students are required to purchase a TI 84+ calculator.

Homework: Moderate to Heavy

**IB Math HL Y1-Y2**

Course Code: HS3131 (Y1), HS3141 (Y2)

Duration: Two years

Prerequisites: Algebra 2/Trigonometry

Credits: 2.0

This course is designed for students with a strong background in mathematics and interest in perusing university studies in technology, mathematics or the physical sciences. Core topics include algebraic concepts and applications, circular functions and trigonometry, vectors, statistics and probability, differential and integral calculus. An advanced topic related to one of the core topics will be chosen for further studies during this course. Writing a mathematical exploration and working on precise math communication are significant parts of this course. IB Math HL is for students who like challenges and have very good study habits. Students are required to purchase a TI 84+ calculator.

Homework: Heavy



“The only way to learn mathematics
is to do mathematics.”

—Paul Halmos

AP Calculus AB

Course Code: HS3200

Duration: Year

Prerequisites: Core Pre-Calculus or Advanced Pre-Calculus

Credits: 1.0

This course explores the major topics required for AP Calculus AB, and is equivalent to the first semester of a traditional college calculus course. Topics include limits, derivatives of algebraic and transcendental functions, differentiation techniques, extremization, related rates, Riemann sums and the definite integral, indefinite integrals and anti-differentiation, numerical integration, areas of planar regions, and volumes and surface area of solids of revolution. Students are required to purchase a TI 84+ calculator. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy

**AP Calculus BC**

Course Code: HS3201

Duration: Year

Prerequisites: Advanced Pre-Calculus or AP Calculus AB

Credits: 1.0

This course is an accelerated version of AP Calculus AB to allow completion of the BC syllabus in one year. This course is equivalent to the first two semesters of university-level calculus. The major topics include those listed in AB Calculus and the additional BC-level topics: improper integrals and further applications of integrals, differential equations and Euler's method, Hospital's rule, analysis of planar curves, polynomial approximations and series, and parametric, polar, and vector functions. The offering of this course is subject to enrollment. Students are required to purchase a TI 84+ calculator. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy

**AP Statistics**

Course Code: HS3202

Duration: Year

Prerequisites: Student must be at least grade 11 and have completed Algebra 2.

Credits: 1.0

AP Statistics is a course designed to introduce students to the major concepts necessary for collecting, organizing, analyzing, and interpreting data. The four broad conceptual themes are exploring data, designing a study, anticipating patterns using simulations and probability, and statistical inference. While this course relies on complex math concepts, this is not a traditional math course. The major emphases are reading, writing, conceptual understanding, interpretation and judgment, analysis, the ability to compare and contrast. The school's offering of this course is subject to student enrollment. Students are required to have a TI 84+ calculator. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy

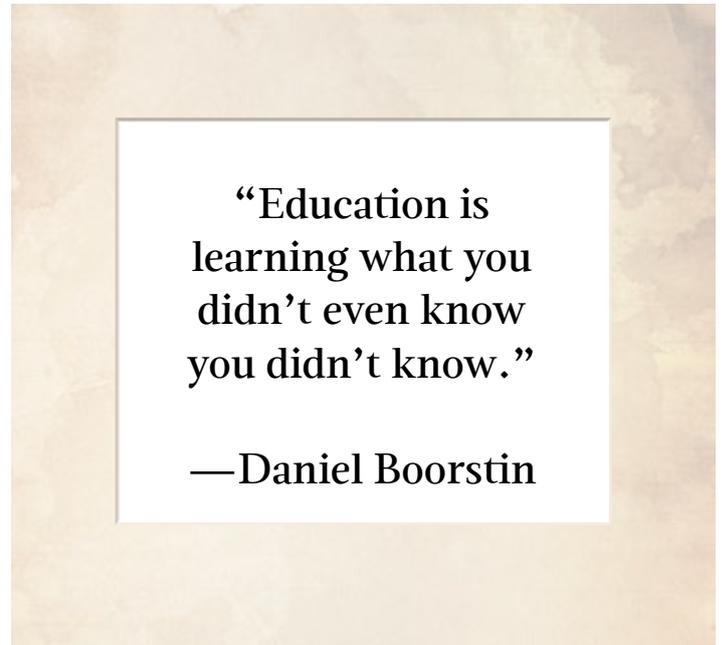


Multivariable Calculus & Series

Course Code: HS3204
 Duration: Year
 Prerequisites: AP Calculus BC
 Credits: 1.0

This course is equivalent to a third semester college calculus course. Students investigate the geometry of three-dimensional curves and surfaces, and extend the single-variable concepts of derivatives and integrals to three and more dimensions. The process of finding a minimum or maximum value of a function of several variables is illustrated, and the techniques used to find the volume of a three-dimensional region and the average value of a given function over such a region are explored. Differential and integral calculus of several variables are the focal points of this college-level course which extends the BC Calculus experience to three dimensions, culminating in several calculus applications to physics including Stokes', Green's, and Gauss' Theorems.

Homework: Heavy



SOCIAL STUDIES COURSES

SOCIAL STUDIES DEPARTMENT FLOW CHART

Grade 9 students must enroll in:

Asian History

Grade 10 students may choose any of the courses below based on meeting prerequisites:

US History

AP US History

Grade 11 and 12 students may choose any of the courses below based on meeting prerequisites:

AP Psychology

AP Comparative Government & Politics

Applied Economics & Business

Modern World History

IB Environmental Systems & Society SL (two-year course)
1 credit Science
1 credit Social Studies

IB Psychology HL/SL (two-year course)

AP Economics

AP US History

IB Economics HL/SL (two-year course)

AP European History

* IB Philosophy SL (two-year course)

* IB Business & Management HL/SL (two-year course)

IB History SL/HL (two-year course)

* IB Info. Technology in a Global Society HL/SL (two-year course)

Legend

- AP course
- IB course
- SAS course

* These courses will be taught online through Pamoja.

Asian History

Course Code: HS2000

Duration: Year

Prerequisites: None

Credits: 1.0

Asian History fulfills the Grade 9 Social Studies requirement. This is a general survey course designed to better acquaint students with the people, cultures, and history of Asia. By emphasizing writing development, research skills, and the analysis of historical sources and documents, and by using a variety of testing strategies, students will be provided with the skills needed for a successful transition to the 10th grade. Various themes such as geography, demographics, conflict and resolution within and between nations will be addressed along with the evolution of China.

Homework: Moderate



US History

Course Code: HS2002

Duration: Year

Prerequisites: Asian History

Credits: 1.0

U.S. History is a course that will look at major historical events that shaped the identity of the United States. The curriculum structure of this course will focus on themes in which students will develop an understanding of the struggles, opportunities, and challenges that faced America throughout history. Students will be taught to think critically, develop writing skills, analyze documents and develop historical thinking skills that will prepare them for continued study in the Social Studies area.

Homework: Moderate



Modern World History

Course Code: HS2001

Duration: Year

Prerequisites: Grade 11 or Grade 12

Credits: 1.0

Modern World History is a thematic, project-based course that focuses on two main themes: Revolution and Conflict. The course provides an overview of the development of the modern world with emphasis on the study of significant people, events, and issues. Focus is given to ideas that inspired change and led to new ways of thinking. Students are encouraged to develop their skills as a historian such as research, analysis, and forming arguments. It is hoped that students will develop a continuing love for the study of history, as this course will prepare students for further study in this subject.

Homework: Moderate



Applied Economics & Business

Course Code: HS2018

Duration: Year

Prerequisites: Grade 11 or Grade 12

Credits: 1.0

Applied Economics & Business is a hands-on, experiential course which requires active, consistent class participation. Students will work in groups and individually, and technology will be used on a regular basis. By creating, managing, and marketing products and services of their own design and by working with established local businesses, students will gain a firm foundation in business terminology and practices essential for success in the business world. In the first semester, students will focus on the basics of economics, the stock market, marketing, and management. In the second semester, students will begin developing their own entrepreneurial skills by starting a business.

Homework: Moderate



IB History SL Y1-Y2

Course Code: HS2111 (Y1), HS2121 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

This course is an in-depth study of the 20th century in which students examine themes such as causes, practices and effects of wars (including World War I and II, Korea and Vietnam, the Cold War) and the rise and rule of single-party states (including Stalin, Hitler, Mao and Peron). Students will develop skills essential for the evaluation of different approaches to, and interpretations of historical events and topics. Emphasis will be given to analyzing sources as well as writing essays. Throughout the course students will be encouraged to enter imaginatively into the past. The course will be assessed internally through discussions, essays, quizzes, a 2,000 word internal assessment, and other appropriate teaching appraisals.

Homework: Heavy



IB Psychology SL Y1-Y2

Course Code: HS2113 (Y1), HS2123 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

IB Psychology examines the interaction of biological, cognitive, and sociocultural influences on human behavior, thereby adopting an integrative approach. Understanding how psychological knowledge is generated, developed and applied enables students to achieve a greater understanding of themselves and to appreciate the diversity of human behavior. The ethical concerns raised by the methodology and application of psychological research are key considerations in this course. IB Psychology takes a holistic approach that fosters intercultural understanding and respect. In the core of the IB Psychology course, the biological level of analysis demonstrates what all humans share, whereas the cognitive and sociocultural levels of analysis reveal the immense diversity of influences that produce human behavior and mental processes. Cultural diversity is explored and students are encouraged to develop empathy for the feelings, needs and lives of others within and outside their own culture. This empathy contributes to an international understanding.

Students enrolled in IB Psychology SL must complete:

- all three compulsory levels of analysis
- one option from a choice of five
- one simple experimental study

Homework: Heavy

**IB Economics SL Y1-Y2**

Course Code: HS2114 (Y1), HS2124 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

Economics is one of the pillars of modern society, the understanding of which is crucial for leaders in fields from politics to law and business. This course is designed to introduce economic concepts and theories and to develop the skills of economic reasoning and analysis. The course spans two years and will cover units including basic economic concepts, microeconomics (supply & demand, market failures, etc.), macroeconomics (economic growth, inflation, unemployment, monetary, and fiscal policy, etc.), international trade, and economic development. Students' grades will be based on a combination of internal assessments, such as article analyses, quizzes, unit tests, and research projects.

Homework: Heavy

**IB Information Technology in a Global Society SL Y1-Y2**

Course Code: HS2110 (Y1), HS2120 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

pamoja education
Teaching the IB online

Information Technology in a Global Society looks at technological innovations and their social and ethical impact on the world today. ITGS SL is focused on three main strands:

- Social and ethical significance
- Application to specified scenarios
- IT systems.

This course will be taught online through Pamoja. Registration priority will be given to IB Diploma students. For more information visit: <http://www.pamojaeducation.com/IB-online-courses/>

Homework: Heavy

**IB Philosophy SL Y1-Y2**

Course Code: HS2145 (Y1), HS2146 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

pamoja education
Teaching the IB online

IB Philosophy is a subject that tackles questions important to humanity. For example, what is it to be a human being and how do I know what is the right thing to do? Students will learn how to think systematically, analyze arguments, and study philosophical themes. They will also be looking at problems facing contemporary society, including those resulting from increased international interaction. IB Philosophy covers major philosophical themes such as moral values, relativism, utilitarianism as well as major philosophical thinkers such as Plato, Socrates, Hegel and Iris Murdoch. Students will also look at questions such as: are human beings special? Are we free and are human beings naturally selfish? They will also get the chance to study an optional theme of your own choice.

This course will be taught online through Pamoja. Registration priority will be given to IB Diploma students. For more information visit: <http://www.pamojaeducation.com/IB-online-courses/>

Homework: Heavy



IB Business & Management SL Y1-Y2

Course Code: HS2117 (Y1), HS2127 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

pamoja education
Teaching the IB online

Business Management is a rigorous and dynamic course that explores how business decision-making processes impact internal and external environments. In turn, it will explore how decision-making processes themselves are affected by internal and external environments.

The course covers:

- Business organisation and environment
- Human resources
- Accounting and finance
- Marketing
- Operations management

This course will be taught online through Pamoja. Registration priority will be given to IB Diploma students. For more information visit: <http://www.pamojaeducation.com/IB-online-courses/>

Homework: Heavy

**IB History HL Y1-Y2**

Course Code: HS2131 (Y1), HS2141 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

The focus of the first year is aspects of the history of the Americas from the 18th through the 20th Centuries. Themes will include independence movements, nation building, political thought, expansion, identity, conflict, economics and human rights. These topics will be addressed in the context of North and South America. Students will develop skills essential for the evaluation of different approaches to, and interpretations of historical events and topics. Emphasis will be given to analyzing sources as well as writing essays.

The second year will examine themes such as the causes, practices and effects of wars (including World War I and II, Korea and Vietnam, the Cold War) and the rise and rule of single-party states (including Stalin, Hitler, Mao and Peron). Students will continue to use skills developed during Year 1, and connect and apply ideas across the stream of history. The course will be assessed internally through homework assignments, discussions, essays, quizzes, a 2,000 word internal assessment, and other appropriate teaching appraisals. Students enrolled in the course will sit for the IB exam at the end of year two. The assessment will be comprised of two papers based on year 2 and one paper based on Year 1.

Homework: Heavy

**IB Psychology HL Y1-Y2**

Course Code: HS2133 (Y1), HS2143 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

IB Psychology examines the interaction of biological, cognitive, and sociocultural influences on human behavior, thereby adopting an integrative approach. Understanding how psychological knowledge is generated, developed and applied enables students to achieve a greater understanding of themselves and appreciate the diversity of human behavior. The ethical concerns raised by the methodology and application of psychological research are key considerations in this course.

IB Psychology takes a holistic approach that fosters intercultural understanding and respect. In the core of the IB Psychology course, the biological level of analysis demonstrates what all humans share, whereas the cognitive analysis reveal the immense diversity of influences that produce human behavior and mental processes. Cultural diversity is explored and students are encouraged to develop empathy for the feelings, needs and lives of others within and outside their own culture. This empathy contributes to an international understanding.

Students enrolled in IB Psychology HL must complete:

- all three compulsory levels of analysis
- two options from a choice of five
- qualitative research methodology
- one simple experimental study

Homework: Heavy

**IB Economics HL Y1-Y2**

Course Code: HS2134 (Y1), HS2144 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

Economics is one of the pillars of modern society, the understanding of which is crucial for leaders in fields from politics to law and business. This course is designed to introduce economic concepts and theories and to develop the skills of economic reasoning and analysis. The course spans two years and will cover units including basic economic concepts, microeconomics (theories of consumer behavior, theory of the firm, market failures, etc.), macroeconomics (economic growth, inflation, unemployment, monetary and fiscal policy, etc.), international trade, and economic development. Students' grades will be based on a combination of internal assessments, such as article analyses, quizzes, unit tests, and research projects.

In addition to the content covered in IB Economics SL, the HL course adds a major area of study, Theory of the Firm, which many students find challenging. HL students also learn the basic mathematical calculations (Algebra 1 level of difficulty) related to the economic theories we study.

Homework: Heavy



IB Environmental Systems & Society SL Y1-Y2

Course Code: HS4115 (Y1), HS4125 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science

Credits: 1.0 Science credit (Y1), 1.0 Social Studies credit (Y2)

The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed, personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. Students will be evaluating the scientific, ethical and socio-political aspects of issues. Field work and other experiential work will be an integral part of the course, some of which may be extended beyond the normal school schedule.

As a trans-disciplinary course, IB Environmental Systems and Society is designed to combine the techniques and knowledge associated with the group 4 (experimental sciences) with those associated with group 3 (individuals and societies). Choosing to study this course as part of the IB diploma program allows students to satisfy the requirement for both groups 3 & 4 of the hexagon. This then allows students to choose another subject from any hexagon group (including another group 3 or 4 subject). At SAS, a student enrolled in the IB Environmental Systems and Society two year course will be award a science credit for year 1 and a social studies credit for year 2.

Homework: Moderate

**IB Business Management HL Y1-Y2**

Course Code: HS2137 (Y1), HS2147 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

pamoja education
Teaching the IB online

The Business Management HL course is a rigorous and dynamic course that explores how business decision-making processes are affected by, and have an impact on internal and external environments. The course covers:

- Business organisation and environment
- Human resources
- Accounting and finance
- Marketing
- Operations management
- Business strategy

This course will be taught through Pamoja, an online IB curriculum provider. Registration priority will be given to IB Diploma students. For more information visit:
<http://www.pamojaeducation.com/IB-online-courses/>

Homework: Heavy

**IB Information Technology in a Global Society HL Y1-Y2**

Course Code: HS2130 (Y1), HS2140 (Y2)

Duration: Two years

Prerequisites: Grade 11 or Grade 12

Credits: 2.0

pamoja education
Teaching the IB online

Information Technology in a Global Society looks at technological innovations and their social and ethical impact on the world today. ITGS HL is focused on three main strands:

- Social and ethical significance
- Application to specified scenarios
- IT systems.

The HL course contains extension topics and an annually issued case study.

This course will be taught online through Pamoja. Registration priority will be given to IB Diploma students. For more information visit: <http://www.pamojaeducation.com/IB-online-courses/>

Homework: Heavy



AP European History

Course Code: HS2201

Duration: Year

Prerequisites: Grade 11 or Grade 12

Credits: 1.0

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

Homework: Heavy



AP US History

Course Code: HS2202

Duration: Year

Prerequisites: Asian History

Credits: 1.0

This intensive course covers the entirety of United States history, with a strong emphasis on preparation for the Advanced Placement exam. Strong English reading comprehension and writing skills are the primary requirements. This is considered a college-level course, taught at a college-level pace. This highly challenging course requires a great deal of self-motivation and independent learning. Thematically, the course will address the major historical and political questions of United States history. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



AP Psychology

Course Code: HS2203

Duration: Year

Prerequisites: Grade 11 or Grade 12

Credits: 1.0

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of humans and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



AP Economics

Course Code: HS2204

Duration: Year

Prerequisites: Grade 11 or Grade 12

Credits: 1.0

Advanced Placement Economics encompasses two full AP courses taken in succession: AP Microeconomics and AP Macroeconomics. The purpose of the course is to introduce students to economics – the study of how to best allocate scarce resources among unlimited wants. This rigorous course is taught at the college level; student's study habits and participation should reflect this. On average the course will cover one chapter from the textbook per week and it is expected that students complete and comprehend the content within the assigned time frame. Due to the college level content of this course it is taught at a fast pace, and students must be prepared for this. It is hoped that knowledge of economics will enhance students' perceptions of the world, and give them insights into people's behavior and decisions.

AP Microeconomics is focused on the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

AP Macroeconomics is focused on the principles of economics that apply to an economic system as a whole. Emphasis is placed on the study of national income and price-level determination, along with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



AP Comparative Government & Politics

Course Code: HS2205

Duration: Year

Prerequisites: Grade 11 or Grade 12

Credits: 1.0

This course will provide students with the conceptual tools necessary to develop an understanding of some of the world's diverse political structures and practices. The course encompasses the study of both specific countries and their governments, as well as general concepts used to interpret the political relationships and institutions found in virtually all national politics. Six countries — Great Britain, Russia, China, Mexico, Iran, and Nigeria — form the core of the AP Comparative Government and Politics course. They are taught because they provide a foundation for developing an understanding of different types of political systems. The course is approached through the following six topics: methods of comparison; sovereignty, authority and power; political institutions; citizens, society, and the state; political and economic change; and public policy. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



SCIENCE COURSES

SCIENCE DEPARTMENT FLOW CHART

Grade 9 students must enroll in:

Physics-Chemistry Lab Science

Grade 10 students must enroll in:

Biology Lab Science

Grade 11 students may choose any of the courses below based on meeting prerequisites:

| | | | |
|---|---|--|---|
| AP Physics 1 | Earth & Space Science | AP Biology | Chemistry |
| IB Physics SL/HL <small>(two-year course)</small> | Independent Research & Design | IB Biology SL/HL <small>(two-year course)</small> | IB Chemistry SL/HL <small>(two-year course)</small> |
| | IB Environmental Systems & Society SL <small>(two-year course) 1 credit Science 1 credit Social Studies</small> | IB Sports, Exercise, & Health Science SL <small>(two-year course) 1 credit - Science 1 credit Elective</small> | AP Chemistry |

Grade 12 students may choose any of the courses below based on meeting prerequisites:

| | | | |
|---------------------|--|-------------------|---------------------|
| AP Physics 1 | Chemistry | AP Biology | AP Chemistry |
| AP Physics C | Earth & Space Science | | |
| | Independent Research & Design | | |

Legend

- AP course
- IB course
- SAS course

Physics-Chemistry Lab Science

Course Code: HS4007

Duration: Year

Prerequisites: This course is for grade 9 students

Credits: 1.0

This Lab Science course focuses on the use of science and engineering practices to develop conceptual understandings in basic chemistry and physics. This course also explores cross-cutting concepts that unite the sciences and allow students to make connections beyond the sciences. Each student will also be required to complete an independent investigation or engineering design project that further explores an area of student interest with a physical science conceptual focus.

Homework: Moderate



Biology Lab Science

Course Code: HS4008

Duration: Year

Prerequisites: This course is designed for grade 10 students.

Credits: 1.0

Biology is the scientific study of life. In this course we will embrace knowledge of life through scientific actions, such as: inquiry, development of models, laboratory investigations, data analysis and interpretation, mathematics, scientific argumentation, forming scientific explanations from evidence, and engaging in the scientific community through reading literature and communicating new ideas. The scientific skills that we practice and complete will not only allow us to discover biology content knowledge, but prepare us for the thinking needed to be an informed citizen and 21st century scientist.

The grade 10 Biological Lab Science course is based on the Next Generation Science Standards and focuses on the following units: Ecology, Evolution, Structure and Function, Genetics.

Homework: Moderate



Chemistry

Course Code: HS4004

Duration: Year

Prerequisites: Biology Lab Science

Credits: 1.0

This Chemistry course is a high school level chemistry course designed for students who will enter AP Chemistry the following year. The same 14 units studied in the AP Chemistry course will also be examined in this course. This course will address some of the simpler concepts in each of the AP units in order to lay a strong foundation for the AP course. Lab work will be at a strong high school level, and will teach students how to be scientific inquirers.

Homework: Moderate



Earth & Space Science

Course Code: HS4029

Duration: Year

Prerequisites: Biology Lab Science

Credits: 1.0

This Lab Science course focuses on the use of science and engineering practices to develop conceptual understandings in the earth and space sciences. This course also explores cross-cutting concepts that unite the sciences and allow students to make connections beyond the sciences. Each student will also be required to complete an independent investigation or engineering design project that further explores an area of student interest with an earth and/or space science conceptual focus.

Homework: Moderate



Independent Research & Design

Course Code: HS4207

Duration: Year

Prerequisites: Grade 11 student enrolled in another science course or a grade 12 student

Credits: 1.0

This course offers students of all levels an opportunity to perform authentic, science-focused research and design. Independent Research and Design reinforces and integrates skills learned in previous courses. This course provides students the opportunity explore topics of personal interest and is intended to stimulate students' ingenuity, curiosity, and intellectual talents. The students will use the scientific method and engineering design cycle to investigate, design, plan, and implement a research or design project. This course fosters awareness of the social and ethical implications of scientific and technological developments.

Homework: Moderate



“Give me a lever long enough and a fulcrum on which to place it, and I shall move the world.”

—Archimedes

IB Environmental Systems & Society SL Y1-Y2

Course Code: HS4115 (Y1), HS4125 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science

Credits: 1.0 Science credit (Y1), 1.0 Social Studies credit (Y2)

The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed, personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. Students will be evaluating the scientific, ethical and socio-political aspects of issues. Field work and other experiential work will be an integral part of the course, some of which may be extended beyond the normal school schedule.

As a trans-disciplinary course, IB Environmental Systems and Society is designed to combine the techniques and knowledge associated with the group 4 (experimental sciences) with those associated with group 3 (individuals and societies). Choosing to study this course as part of the IB diploma program allows students to satisfy the requirement for both groups 3 & 4 of the hexagon. This then allows students to choose another subject from any hexagon group (including another group 3 or 4 subject). At SAS, a student enrolled in the IB Environmental Systems and Society two year course will be awarded a science credit for year 1 and a social studies credit for year 2.

Homework: Moderate

**IB Biology SL Y1-Y2**

Course Code: HS4110 (Y1), HS4120 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science

Credits: 2.0

IB Biology is a Group 4 experimental science that is separated into two levels, Standard (SL) and Higher (HL). Both levels share a common subject specific core and a Group 4 project, plus two Options selected from a list by the teacher. The course is presented in a thematic approach: Structure and Function, Universality versus Diversity, Equilibrium within Systems, and Evolution. The subject specific core material consists of: Cell Biology, Molecular Biology, Genetics, Ecology, Evolution, and Human Physiology. Options are selected from Neurobiology and Behavior, Biotechnology and Bioinformatics, Ecology and Conservation, and Human Physiology. All students enrolled in an IB subject must sit the external exam at the end of year 2.

Homework: Heavy

**IB Biology HL Y1-Y2**

Course Code: HS4130 (Y1), HS4140 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science

Credits: 2.0

IB Biology is a Group 4 experimental science that is separated into two levels, Standard (SL) and Higher (HL). Both levels share a common subject specific core and a Group 4 project, plus two Options selected from a list by the teacher. The course is presented in a thematic approach: Structure and Function, Universality versus Diversity, Equilibrium within Systems, and Evolution. The subject specific core material consists of: Cell Biology, Molecular Biology, Genetics, Ecology, Evolution, and Human Physiology. Additional higher-level material includes further Nucleic Acids, Metabolism: Cell Respiration and Photosynthesis, Plant Biology, Genetics and Evolution, and Animal Physiology. Options are selected from Neurobiology and Behavior, Biotechnology and Bioinformatics, Ecology and Conservation, and Human Physiology. All students enrolled in an IB subject must sit the external exam at the end of year 2.

Homework: Heavy

**IB Chemistry SL Y1-Y2**

Course Code: HS4111 (Y1), HS4121 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science

Credits: 2.0

Students have opportunities to design investigations, collect data, develop manipulative skills, analyze results, collaborate with peers and evaluate and communicate their findings. The investigations may be laboratory based or they may make use of simulations and data bases. Students develop the skills to work independently on their own design, but also collegiately, including collaboration with schools in different regions, to mirror the way in which scientific research is conducted in the wider community.

IB Chemistry is regarded as one of the experimental sciences that combine academic study with the acquisition of practical and investigational skills. SL has a common specific core and a Group 4 project. In addition SL students explore an additional "Optional" topic. The subject specific core includes the following topics: stoichiometry, atomic theory, periodicity, bonding, energetics, equilibrium, kinetics, acids and bases, oxidation and reduction, and organic chemistry. In year two, the choices for "Options" include medicinal chemistry, materials, energy, and biochemistry. The use of technology, which is curriculum driven, is emphasized during this course. All students enrolled in an IB subject must sit the external exam at the end of year 2.

Homework: Moderate



IB Chemistry HL Y1-Y2

Course Code: HS4131 (Y1), HS4041 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science

Credits: 2.0

Students have opportunities to design investigations, collect data, develop manipulative skills, analyze results, collaborate with peers and evaluate and communicate their findings. The investigations may be laboratory based or they may make use of simulations and data bases. Students develop the skills to work independently on their own design, but also collegiately, including collaboration with schools in different regions, to mirror the way in which scientific research is conducted in the wider community.

IB Chemistry is regarded as one of the experimental sciences that combine academic study with the acquisition of practical and investigational skills. It is separated into two levels, Standard (SL) and Higher (HL). Both levels share a common specific core, and a Group 4 project, and extra hours on the optional topic. The HL course will go into more depth and more rigor in each topic. Students in HL should expect more class time hours, and will also spend more time on homework. The subject specific core includes the following topics: stoichiometry, atomic theory, periodicity, kinetics, bonding, energetics, equilibrium, acids and bases, oxidation and reduction, and organic chemistry. Additional HL material includes a more detailed and in-depth study of the specific core topics. In year two, the choices for "Options" include medicinal chemistry, materials, energy, and biochemistry. The use of technology, which is curriculum driven, is emphasized during this course. All students enrolled in an IB subject must sit the external exam at the end of year 2.

Homework: Heavy

**IB Physics SL Y1-Y2**

Course Code: HS4112 (Y1), HS4122 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science; It is also strongly recommended that students have completed Algebra 2/Trigonometry.

Credits: 2.0

IB Physics Standard Level (SL) is designed for students who want an introduction of a wide variety of general physics topics over a two-year period. IBO prescribes a minimum of 150 hours for this course. The first year of the SL course will cover topics from the common subject specific core and a Group 4 project. In the first year the topics of measurement, errors, mechanics, waves, thermal physics, and energy, power, and an introduction to electricity will be covered. In the second year, electrical circuits, electromagnetism, atomic, nuclear and particle physics will be studied. An additional topic to study (Option) will be selected from relativity, engineering physics, imaging and astrophysics. Mathematical competence is essential for success in this course, although it is not essential to be enrolled in calculus or HL math courses. All students enrolled in IB Physics must take the external exam at the end of year 2.

Homework: Heavy

**IB Physics HL Y1-Y2**

Course Code: HS4132 (Y1), HS4142 (Y2)

Duration: Two years

Prerequisites: Biology Lab Science; It is also strongly recommended that students have completed Algebra 2/Trigonometry.

Credits: 2.0

IB Physics Higher Level (HL) is designed for students who want a greater depth and breadth of study in physics. IBO prescribes a minimum of 240 hours for this course. The first year of the HL course will cover topics from the common subject specific core and a Group 4 project. In the first year the topics of measurement, errors, mechanics, waves, thermal physics, and energy, power, and an introduction to electricity will be covered. In the second year, electrical circuits, electromagnetism, atomic, nuclear and particle physics will be studied, along with a revisit of first year topics and the addition of higher-level material (AHL). An additional topic to study (Option) will be selected from relativity, engineering physics, imaging and astrophysics. Mathematical competence is essential for success in this course, although it is not essential to be enrolled in calculus or HL math courses. All students enrolled in IB Physics must take the external exam at the end of year 2.

Homework: Heavy

**IB Sports, Exercise, & Health Science SL Y1-Y2**

Course Code: 7030 (Y1), 7031 (Y2)

Prerequisites: Physical & Health Education II

Duration: Two years

Credits: 1.0 Science (Y1), 1.0 Elective (Y2)

This two-year course aims to introduce students to some of the scientific components that make up the study of sport, exercise, and health. The diploma program course in Sports, Exercise, and Health Science involves the study of the science that underpins physical performance and provides the opportunity to apply these principles.

As stated in the IB guide, this course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology, and nutrition, which are studied in the context of sport, exercise, and health. Students will cover both core and option topics and carry out practical (experimental) investigations in both laboratory and field settings. This will provide an opportunity to acquire the knowledge and understanding necessary to apply scientific principles and critically analyze human performance. Where relevant, the course will address issues of internationalism and ethics by considering sport, exercise, and health relative to the individual and in a global context.

Homework: Moderate to Heavy



AP Biology

Course Code: HS4200

Duration: Year

Prerequisites: Biology Lab Science

Credits: 1.0

The AP Biology course is designed to help students develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, using models, justifying claims and connecting concepts in and across domains. The conceptual study of the course is based on the four following big ideas: 1) The process of evolution drives the diversity and unity of life; 2) Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis; 3) Living systems store, retrieve, transmit, and respond to information essential to life processes; 4) Biological systems interact, and these systems and their interactions possess complex properties. This AP Biology course is equivalent to a two-semester college introductory biology course. Every student enrolled in this course must sit the external exam at the end of the year.

Homework: Heavy



AP Chemistry

Course Code: HS4201

Duration: Year

Prerequisites: Biology Lab Science

Credits: 1.0

The AP Chemistry course is designed to be the equivalent of the general first year university chemistry course taken by college freshmen. A range of topics are covered, spanning physical and analytical chemistry as well as a link to AP Biology with a unit of biochemistry. There are 14 major units in the course that are centered around the 6 'Big Ideas' from the College Board. These units include: Foundations of Matter; Chemical Reactions and Stoichiometry; Gases; Thermochemistry; Atomic Theory, Periodicity and Bonding; Solids, Liquids and Solutions; Kinetics; Equilibrium; Acids, Bases and Aqueous Equilibria; Spontaneity, Entry & Free Energy; Electrochemistry, Nuclear Chemistry; Transition Metal Chemistry and Biochemistry. Students will complete a range of college level laboratory experiments, a number of which will be inquiry based. Students are expected to take tangible responsibility for their learning with a large amount of work required outside of class in order to make the most of the time in class. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



AP Physics 1

Course Code: HS4210

Duration: Year

Prerequisites: Successful completion of Algebra II with trigonometry and Biology Lab Science

Credits: 1.0

The AP Physics program provides a systematic study of the principles of physics and emphasizes the development of critical thinking and problem-solving ability. The course covers Newtonian mechanics including rotational dynamics and angular momentum, work, energy and power, mechanical waves and sound. It also introduces electric circuits. It is assumed that the student is familiar with algebra and basic trigonometry. This course offers the essential foundation in physics, preparing students for science-related courses. This course is also the prerequisite for AP Physics 2. All students enrolled in an AP Subject must sit the external exam at the end of the school year.

Homework: Heavy



AP Physics C: Mechanics, Electricity & Magnetism

Course Code: HS4206

Duration: Year

Prerequisites: Completion Physics 1 and enrollment or completion of AP Calculus or IB Math HL. In addition, strong recommendations are required from both the Mathematics and Science department teachers.

Credits: 1.0

Although AP Calculus or IB Math HL can be taken concurrently, success in AP Physics C requires a strong background in Calculus. This yearlong course models the initial two semesters of calculus-based university physics required for science and engineering majors. Topics of study from Newtonian mechanics include:

- kinematics
- force, work, and energy
- systems of particles
- circular motion and rotation
- oscillations and gravitation

Electricity and Magnetism topics of study include:

- electrostatics
- conductors, capacitors, and dielectrics
- electric circuits
- magnetic fields
- electromagnetism

All students enrolled in this AP subject must sit both external exams at the end of the school year.

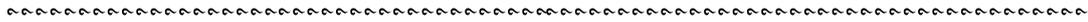
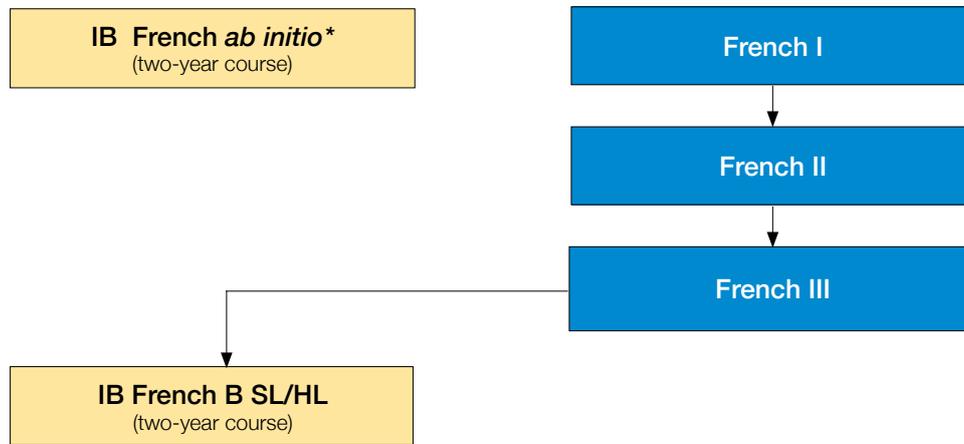
Homework: Heavy



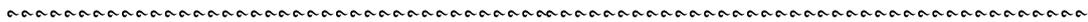
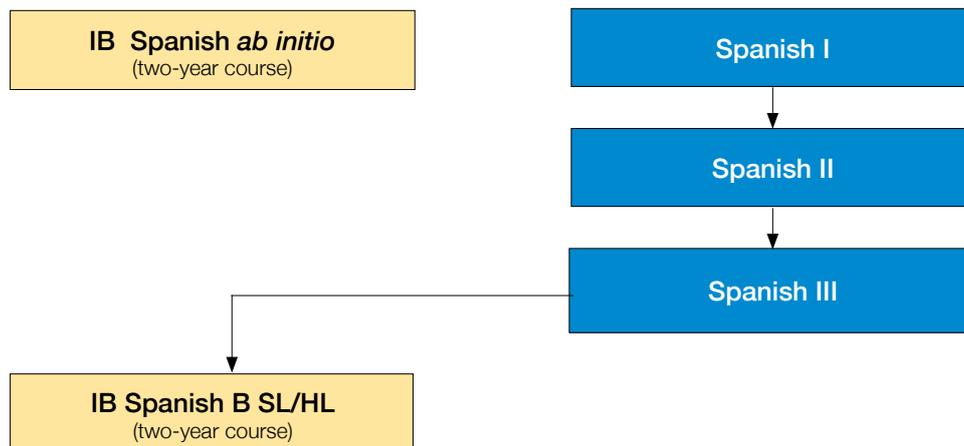
GLOBAL LANGUAGES COURSES

GLOBAL LANGUAGES DEPARTMENT FLOW CHART

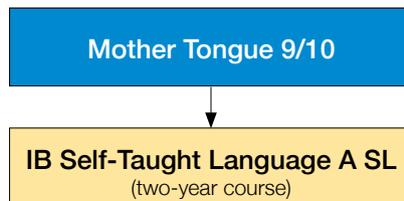
French



Spanish



Mother Tongue Language Program (MTLP)



Legend

- IB course
- SAS course

* This course will be taught online through Pamoja.

French I

Course Code: HS5001

Duration: Year

Prerequisites: None

Credits: 1.0

This course is for students with no prior experience in French. It focuses on communication and developing students' ability to use language effectively in a range of daily life situations. The four linked skills of listening, reading, speaking and writing are encouraged and explored throughout the course. The syllabus offers students an insight into the culture and civilization of the countries where French is spoken. By the end of the course, students will be emergent communicators, able to ask and answer simple questions in French. They will build up a vocabulary of a minimum of 1,200 words, as well as basic grammatical structures, in order to express themselves in familiar situations. They should be able to write compositions of at least 120 words. By the end of the year, classes will be conducted mainly in French with minimal reliance on English. Students will be assessed regularly with quizzes, tests and projects.

Homework: Moderate



French II

Course Code: HS5002

Duration: Year

Prerequisites: French I or teacher recommendation

Credits: 1.0

This course is for students who can use the vocabulary, grammar and language skills developed in French I. The overall aims are to communicate in and understand written and spoken French at a basic level, in a wider and more complex range of situations. Students are also given the opportunity to appreciate the diverse Francophone cultures. Greater emphasis is put on oral and written accuracy, as well as the ability to develop ideas with detail. By the end of the year, students will be independent communicators, who are able to express themselves in French, using a vocabulary of a minimum of 2,000 words as well as a variety of grammatical structures, enabling them to talk or write about past, present or future events. They should be able to write compositions of at least 150 words. Classes will be conducted in French with minimal reliance on English. Students will be assessed regularly with quizzes, tests, projects, oral presentations, role-plays, written compositions, etc. Life and civilization topics continue to be an important part of the learning process with the use of magazines, newspapers, books, tapes and videos.

Homework: Moderate



French III

Course Code: HS5003

Duration: Year

Prerequisites: French II or teacher recommendation

Credits: 1.0

The third year of French consolidates and reviews the skills, grammar and vocabulary learned up to this point, with a greater emphasis on language register and style, in a range of familiar and unfamiliar contexts. This course covers the remaining tenses and more complex grammatical patterns. It is also a continued study of Francophone cultures and basic French literature. By the end of the year, students will be capable communicators, who are able to converse in French on a variety of topics, take part in simple discussions or debates and write a minimum of 250 words for different purposes. Class will be conducted in French only. Students will be assessed regularly with quizzes and tests, projects, reading and visual comprehension tasks, written compositions, oral presentations and conversations. Students completing this year will be able to go on to French IV or year one of IB French, Standard Level (or Higher level on teacher recommendation).

Homework: Moderate



IB French B SL Y1-Y2

Course Code: HS5110 (Y1), HS5120 (Y2)

Duration: Two years

Prerequisites: French III, French IV or teacher recommendation

Credits: 2.0

This is the study of language acquisition for students whose native language is not French. The aims of the language B program are: to develop students' powers of expression in both oral and written communication; to promote the ability to respond to the language demands of transactional and social contacts; to provide students with an efficient tool for possible further study or job opportunity; to help students to gain insights into how users of the specific language think; and to provide enjoyment and intellectual stimulation. Written and spoken communication will be assessed through internal (school) and external (IBO) assessment. Core topics to be studied are communication and media, global issues, and social relationships. In addition, the course will address at least two options from the following five choices: cultural diversity, customs and traditions, health, leisure, and science and technology.

Homework: Heavy



IB French B HL Y1-Y2

Course Code: HS5130 (Y1), HS5140 (Y2)

Duration: Two years

Prerequisites: French III (teacher recommendation) or French IV

Credits: 2.0

This is the study of language acquisition for students whose native language is not French. The aims of the language B program are: to develop students' powers of expression in both oral and written communication; to promote the ability to respond to the language demands of transactional and social contacts; to provide students with an efficient tool for possible further study or job opportunity; to help students to gain insights into how users of the specific language think; and to provide enjoyment and intellectual stimulation. Written and spoken communication will be assessed through internal (school) and external (IBO) assessment. Core topics to be studied are communication and media, global issues, and social relationships. In addition, the course will address at least two options from the following five choices: cultural diversity, customs and traditions, health, leisure, and science and technology. HL students will study two works of literature.

Homework: Heavy

**IB French *ab initio* SL Y1-Y2**

Course Code: HS5151 (Y1), HS5152 (Y2)

Duration: Two years

Credits: 2.0



The *ab initio* program is an intensive language course that covers the equivalent of three years of French over the course of two years and is then assessed externally through the IB exam. It is meant for students who have no previous experience of learning the language. The program meets the needs of those IB students who have had little or no opportunity for foreign language study in their earlier education and are interested in learning a new foreign language as part of their IB Diploma. The aims of this course are to develop students' ability to communicate in speech and in writing in order to enable them to deal adequately with familiar and practical needs; introduce students to the culture of the countries where the language is spoken through the study of the target language; provide students with a foundation for further study of the target language; provide enjoyment and intellectual stimulation; and encourage positive attitudes towards the learning of other languages and their speakers and countries. This course is organized into three themes: individual and society, leisure and work, and urban and rural environment.

This course may be taught online through Pamoja; for more information, visit the website (hyperlink to the course <http://www.pamoja-education.com/IB-online-courses/french-ab-initio.asp>).

Homework: Moderate

**Spanish I**

Course Code: HS5005

Duration: Year

Credits: 1.0

This course is for beginning Spanish students. It focuses on communication and developing students' ability of the students to use the language effectively in a range of daily life situations. The four linked skills of listening, reading, speaking and writing are encouraged and explored throughout the course. The syllabus offers students an insight into the culture and civilization of the countries where Spanish is spoken. It encourages a positive attitude towards language learning and a sympathetic approach to other countries and civilizations. A vocabulary of about 1,200 words and basic grammatical structures are introduced by means of short dialogues and passages. Students will be assessed regularly via quizzes, tests and projects. Most of the class will be conducted in Spanish.

Homework: Moderate

**Spanish II**

Course Code: HS5006

Duration: Year

Prerequisites: Spanish I or teacher recommendation

Credits: 1.0

This course follows the overall scheme of Spanish I but goes deeper into more complicated structures of the language with regard to grammar and vocabulary. At the same time, the communicative situations become more complex. At the end of this course, the students should be able to achieve a level that will allow them to communicate in a Spanish-speaking context and write an essay of a minimum of 150 words. Students will be assessed regularly via quizzes, tests and oral presentations. The class will be conducted primarily in Spanish.

Homework: Moderate

**Spanish III**

Course Code: HS5007

Duration: Year

Prerequisites: Spanish II or teacher recommendation

Credits: 1.0

The third year of Spanish consolidates and reviews the grammar and the vocabulary learned up to this point, covers the remaining tenses and most other grammar topics in depth, and adds more vocabulary. It is also a continued study of Hispanic cultures and basic Spanish literature. Students will be able to converse in Spanish, and write a minimum of 250 words on a Spanish topic. Class will be conducted in Spanish only. Students will be assessed regularly with quizzes, tests and oral presentations.

Homework: Moderate



Dime con quién andas
y te diré quién eres.

IB Spanish B SL Y1-Y2

Course Code: HS5111 (Y1), HS5121 (Y2)

Duration: Two years

Prerequisites: Spanish III, Spanish IV or teacher recommendation

Credits: 2.0

This is the study of language acquisition for students whose native language is not Spanish. The aims of the language B program are: to develop students' powers of expression in both oral and written communication; to promote the ability to respond to the language demands of transactional and social contacts; to provide students with an efficient tool for possible further study or job opportunity; to help students to gain insights into how users of the specific language think; and to provide enjoyment and intellectual stimulation. Written and spoken communication will be assessed through internal (school) and external (IBO) assessment. Core topics to be studied are communication and media, global issues and social relationships. In addition, the course will address at least two options from the following five choices: cultural diversity, customs and traditions, health, leisure, and science and technology.

Homework: Heavy

**IB Spanish B HL Y1-Y2**

Course Code: HS5131 (Y1), HS5141 (Y2)

Duration: Two years

Prerequisites: Spanish III (teacher recommendation) or Spanish IV

Credits: 2.0

This is the study of language acquisition for students whose native language is not Spanish. The aims of the language B program are: to develop students' powers of expression in both oral and written communication; to promote the ability to respond to the language demands of transactional and social contacts; to provide students with an efficient tool for possible further study or job opportunity; to help students to gain insights into how users of the specific language think; and to provide enjoyment and intellectual stimulation. Written and spoken communication will be assessed through internal (school) and external (IBO) assessment. Core topics to be studied are communication and media, global issues and social relationships. In addition, the course will address at least two options from the following five choices: cultural diversity, customs and traditions, health, leisure, and science and technology. HL students will study two works of literature.

Homework: Heavy

**IB Spanish *ab initio* SL Y1-Y2**

Course Code: HS5155 (Y1), HS5156 (Y2)

Duration: Two years

Prerequisites: None

Credits: 2.0

The *ab initio* program is an intensive language course that covers the equivalent of three years of Spanish over the course of two years and is then assessed externally through the IB exam. It is meant for students who have no previous experience of learning the language. The program meets the needs of those IB students who have had little or no opportunity for foreign language study in their earlier education and are interested in learning a new foreign language as part of their IB Diploma. The aims of this course are to develop the student's ability to communicate, in speech and in writing, in order to enable them to deal adequately with familiar and practical needs; introduce students to the culture of the countries where the language is spoken through the study of the target language; provide students with a foundation for further study of the target language; provide enjoyment and intellectual stimulation; and encourage positive attitudes towards the learning of other languages and their speakers and countries. This course is organized into three themes: individual and society, leisure and work, and urban and rural environment.

Homework: Moderate

**Mother Tongue 9/10**

Course Code: HS5040

Duration: Year

Prerequisites: The student should already have a high level of competence in their mother tongue.

Credits: 1.0 (This course may be repeated for credit)

The mother tongue course focuses on the study of both literature and language. The student should already have a high level of competence in their mother tongue, be able to appreciate demanding texts, and participate in a sophisticated discussion about content and language. Texts and media from contemporary and historical periods are studied. The class will be comprised of students from various language backgrounds; thus the language of instruction is English. Students study texts, produce academic compositions, and are assessed in their mother tongue. Students will be supported by a mother tongue tutor. Additional fees may apply.

Homework: Moderate

**IB Self Taught Language A1 SL Y1-Y2**

Course Code: HS5102 (Y1), HS5103 (Y2)

Duration: Two years

Prerequisites: None

Credits: 2.0

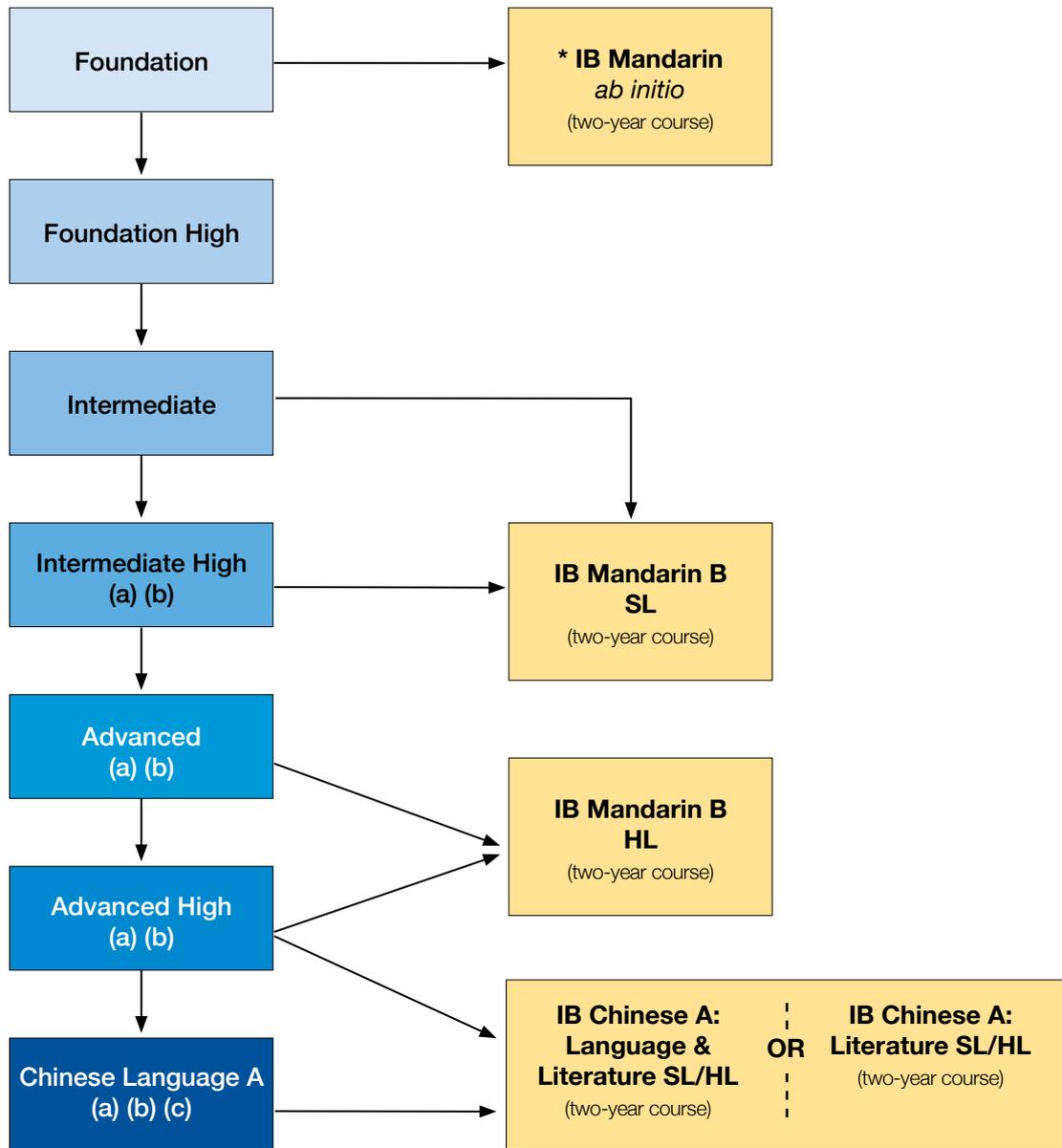
IB Self-Taught Language is designed as an independent study of literature for students in their mother tongue or best academic language, excluding English or Chinese. Students examine 11 works of literature, five of which must be world literature in translation. The course is designed for students who desire enrichment in the study of literature in a language other than English or Mandarin. The emphasis of the course will be on independent literature analysis and the writing of clear, balanced, well-organized prose in the student's mother tongue language. Written and spoken communication will be assessed through internal (school) and external (IBO) assessment. IB Self-Taught students follow the same program as other IB Literature courses. The difference is the need for a qualified outside tutor, which is the responsibility of the family.

Homework: Moderate



CHINESE LANGUAGE COURSES

CHINESE DEPARTMENT FLOW CHART

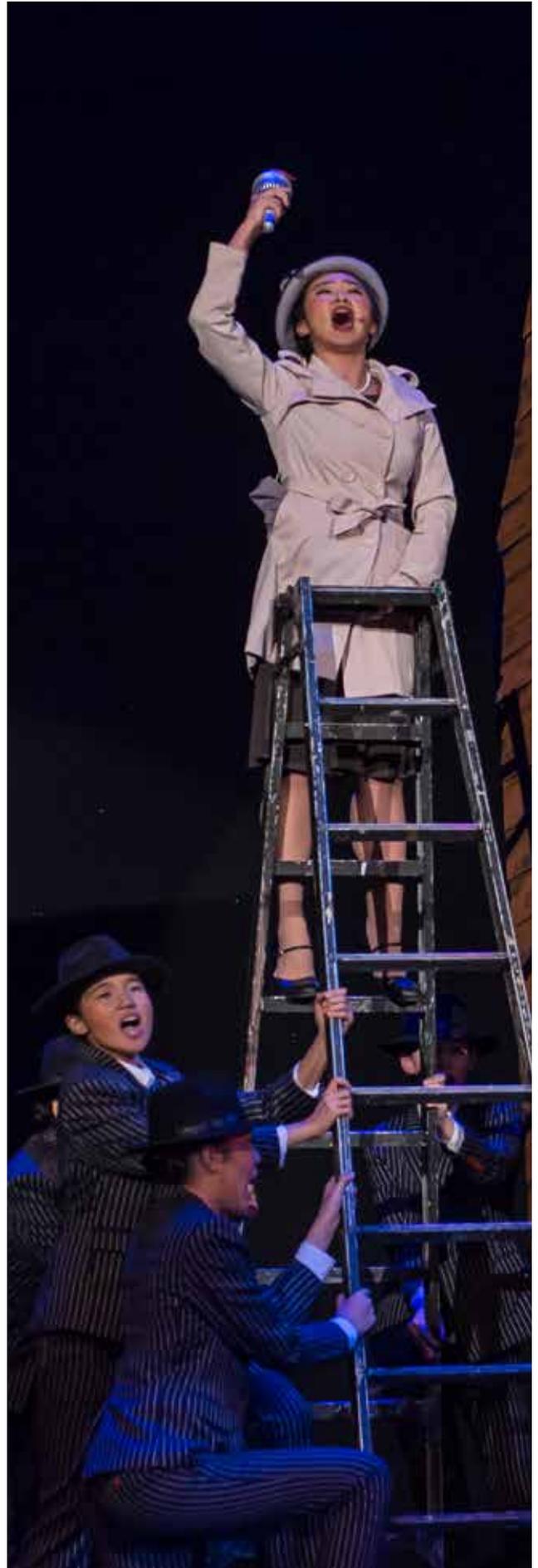
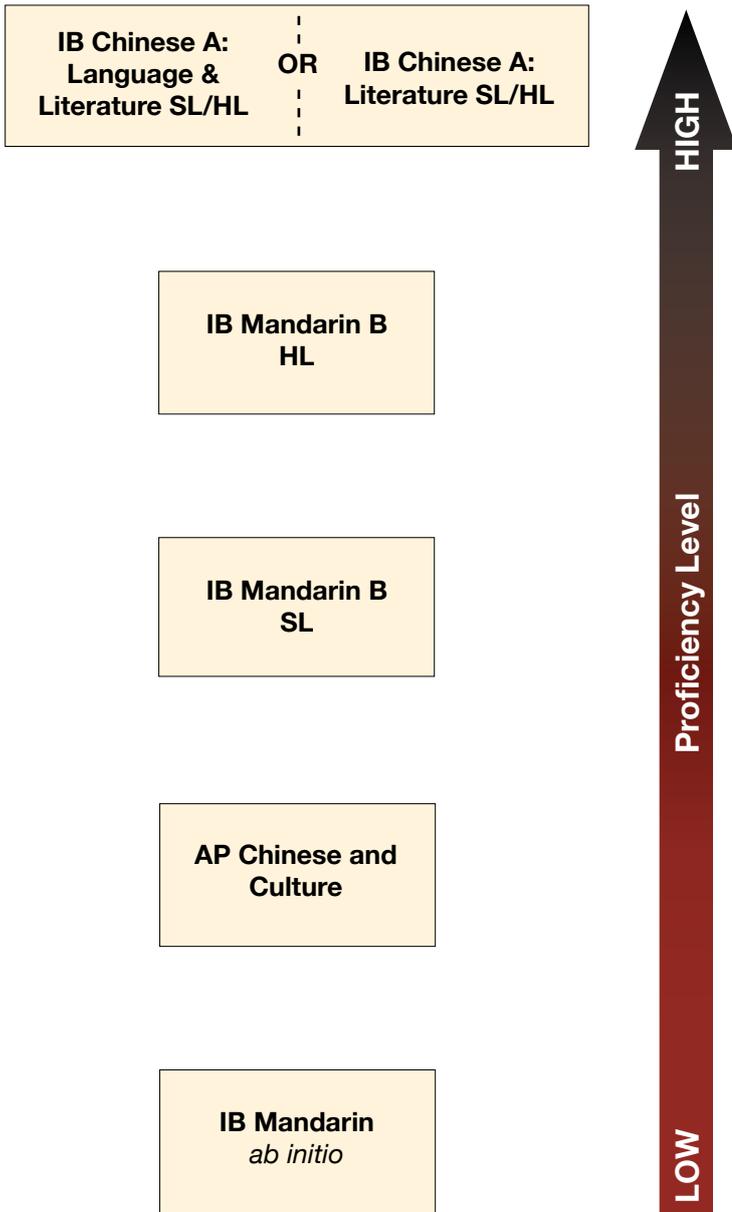


Legend

- IB course
- SAS course

* This course will be taught online through Pamoja.

Chinese Language Proficiency Level for External Assessments



There is no formal Advanced Placement (AP) course being offered in the SAS Chinese program. We have limited capacity for the exam through Student Independent Study. Students who have attained Intermediate High level are the priority candidates to take the exams, as some AP material and similar themes are covered in that class.

Students in Advanced Chinese may also take the AP Chinese exam if there is room and upon recommendation from their Chinese teacher.

The AP Chinese exam is not appropriate for students whose Chinese level is already higher than that of the exam (Advanced High or above).

Foundation Chinese

Course Code: HS5024

Duration: Year

Prerequisites: None

Credits: 1.0

This course is designed for students who have no (or little) prior experience of learning Chinese. This one-year course aims to help students build up a very basic communicative competence in Chinese. Students will be able to communicate information in a limited range of everyday situations related to the topics covered in the Foundation course, including greetings, personal details, daily routine, food and drink, shopping, sports, transportation, and weather. At the end of the course, students will be expected to demonstrate the ability to:

- Make simple statements describing family members, everyday routines, and weather.
- Recognize 150-250 Chinese words; read texts of 100-150 words in length and answer simple questions related to the text.
- Write 100-150 words, with the ability to write texts of 60-80 words in length using simple phrases and sentences.
- Understand the similarities and differences between languages by comparing and contrasting Chinese culture with their own cultures.

Assessments will be conducted with a standards-based, criterion-referenced approach and through a variety of methods, such as: dialogue, role-play, presentation, reading comprehension test, and written productions. These assessments will be used to evaluate students' performance as well as to facilitate their learning.

Homework: Moderate



Foundation Chinese High

Course Code: HS5025

Duration: Year

Prerequisites: Foundation Chinese or equivalent level of communicative skill in Chinese

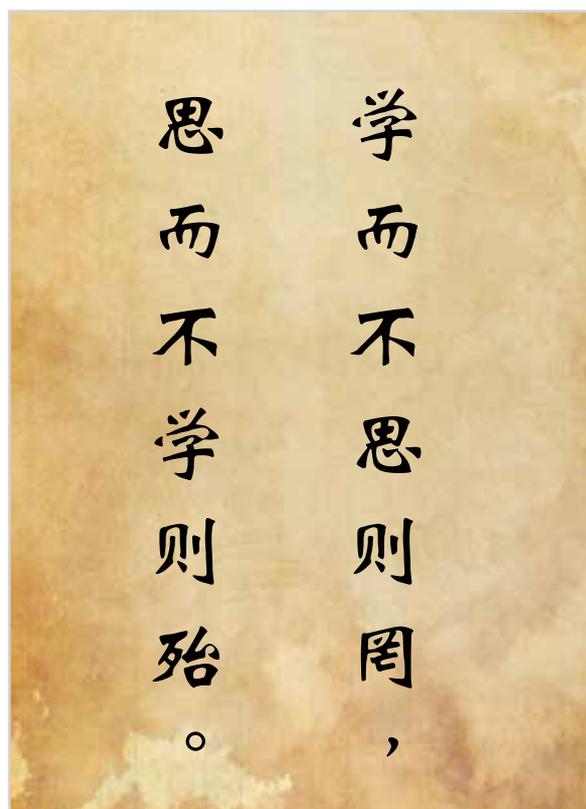
Credits: 1.0

This course is designed for students who have studied the Foundation course or have the equivalent level of communicative skills in Chinese. This one-year course aims to help students build up the basic communicative competence of Chinese. Students will be able to communicate information in a range of everyday situations related to the topics covered in the Foundation High course, including food and drink, education, physical health, shopping, relationship, employment, entertainment, neighborhood and holidays. At the end of the course, students will be expected to demonstrate the ability to:

- Describe personal experiences and exchange ideas about topics of personal interest and everyday situations.
- Recognize 300-350 Chinese words; read text consisting of 150-200 words in length and answer questions about the main ideas and supporting details of the text.
- Write 200-250 words; write text consisting of 100-120 Chinese words in length about a familiar situation using different text types, such as postcards, letters, and emails.
- Understand the similarities and differences between languages by comparing and contrasting Chinese culture with their own cultures.

Assessments will be conducted with a standards-based, criterion-referenced approach and through a variety of methods, such as: dialogue, role-play, presentation, reading comprehension test, and written productions. These assessments will be used to evaluate students' performance as well as to facilitate their learning.

Homework: Moderate



Intermediate Chinese

Course Code: HS5026

Duration: Year

Prerequisites: Foundation High Chinese or equivalent level of communicative skill in Chinese

Credits: 1.0

This course is designed for students who have studied the Foundation High course or have the equivalent level of communicative skills in Chinese. This one-year course aims to help students build up an intermediate level of communicative competence in Chinese. Students will be able to handle a variety of uncomplicated communicative tasks in straightforward social situations, although conversation is generally limited to those predictable and concrete exchanges necessary for survival in Chinese culture. Intermediate Chinese will cover a range of topics: personal details, media, environment, physical health, employment, and technology. At the end of the course, students will be expected to demonstrate the ability to:

- Express thoughts, ideas and opinions through discussion with others about topics of personal interest, pertinent to everyday life and some social situations.
- Recognize 500-600 Chinese words; read text consisting of 200-300 Chinese words in length and comprehending specific information, ideas, opinions and attitudes.
- Write 350-450 words; write text consisting of 150-220 Chinese words in length; write short narratives or recounts and express thoughts, ideas and opinions.
- Understand the similarities and differences between languages by comparing and contrasting Chinese culture with their own culture.

Assessments will be conducted with a standards-based, criterion-referenced approach and through a variety of methods, such as: dialogue, role-play, presentation, reading comprehension test, and written productions. These assessments will be used to evaluate students' performance as well as to facilitate their learning.

Homework: Moderate



Intermediate High Chinese (b)

Course Code: HS5027B

Duration: Year

Prerequisites: Intermediate Chinese or equivalent level of communicative skill in Chinese

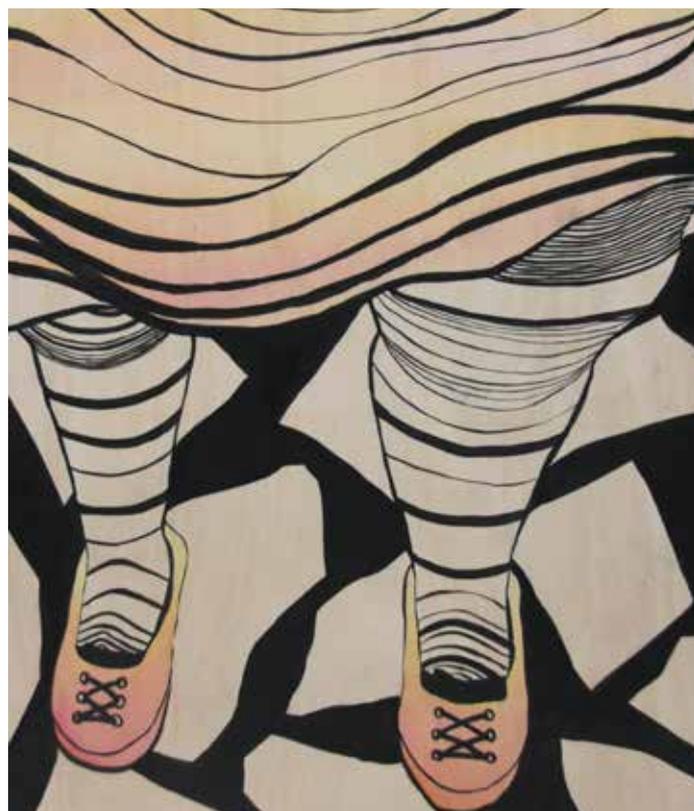
Credits: 1.0

This course is designed for students who have studied the Intermediate course or have the equivalent level of communicative skills in Chinese. Intermediate High is a two-year course that aims to help students build up communicative competence and become a capable communicator in Chinese. Students will be able to converse with ease and confidence when dealing with the routine tasks and social situations. At the end of the course, students will be expected to demonstrate the ability to:

- Express thoughts, ideas and opinions in a discussion with others about topics of social and some of global significance.
- Recognize 700-900 Chinese words; read text consisting of 300-450 Chinese words in length and interpret specific information, ideas, opinions and attitudes.
- Write 500-600 Chinese words; write text consisting of 250-400 Chinese words in length, using different text types, such as book report, review, simple cause/effect essay, newspaper article to expresses thoughts and explains reasons.
- Understand the similarities and differences between languages by comparing and contrasting Chinese culture with their own culture.

Assessments will be conducted with a standards-based, criterion-referenced approach and through a variety of methods, such as: dialogue, role-play, presentation, reading comprehension test, and written productions. These assessments will be used to evaluate students' performance as well as to facilitate their learning.

Homework: Moderate



Advanced Chinese (b)

Course Code: HS5028B

Duration: Year

Prerequisites: Intermediate High Chinese or equivalent level of communicative skill in Chinese

Credits: 1.0

This course is designed for students who have studied the Intermediate High course or have the equivalent level of communicative skills. Advanced is a two-year course that aims to help students build up communicative competence and become a proficient communicator in Chinese. Students will be able to handle a variety of communicative tasks in most informal and some formal conversations. At the end of the course, students will be expected to demonstrate the ability to:

- Engage in discussion about topics of society and some of global significance; share ideas, reflection and opinion in paragraph format with ease.
- Recognize 1400-1600 Chinese words; read text consisting of 500-600 Chinese words in length, and interpret specific information, ideas, opinions and attitudes.
- Write 800-1200 Chinese words; write text consisting of 400-500 Chinese words in length using different text types, including book report, review, simple cause/effect essay, newspaper article to express thoughts and explain reasons.
- Understand the similarities and differences between languages by comparing and contrasting Chinese culture with their own culture.

Assessments will be conducted with a standards-based, criterion-referenced approach and through a variety of methods, such as: dialogue, role-play, presentation, reading comprehension test, and written productions. These assessments will be used to evaluate students' performance as well as to facilitate their learning.

Homework: Moderate to Heavy

**Advanced High Chinese (b)**

Course Code: HS5029B

Duration: Year

Prerequisites: Advanced Chinese or equivalent level of communicative skill in Chinese

Credits: 1.0

This course is designed for students who have studied the Advanced course or have the equivalent level of communicative skills. Advanced High is a two-year course that aims to help students build up communicative competence and become a proficient communicator in Chinese. Students will be able to handle with ease and confidence a large number of communicative tasks. At the end of the course, students will be expected to demonstrate the ability to:

- Engage in conversation about topics related to social and global significance; follow a lecture, a film or a book and synthesize the perspectives of the author.
- Recognize 1800-2000 Chinese words; read text of consisting 600-700 Chinese words in length; interpret specific information, ideas, opinions and attitudes.
- Write 1000-1500 Chinese words; write text consisting of 500-600 words in length using different text types, including book report, review, simple cause/effect essay, and newspaper article.
- Understand the similarities and differences between languages by comparing and contrasting Chinese culture with their own culture.

Assessments will be conducted with a standards-based, criterion-referenced approach and through a variety of methods, such as: dialogue, role-play, presentation, reading comprehension test, and written productions. These assessments will be used to evaluate students' performance as well as to facilitate their learning.

Homework: Moderate to Heavy



Chinese Language A (a)

Course Code: HS5030A

Duration: Year

Prerequisites: Advanced High Chinese or equivalent level of communicative skill in Chinese

Credits: 1.0

This course is designed for students who have experience using Chinese in an academic context and will support their future academic study in Chinese by developing a high social, aesthetic and cultural literacy as well as effective communicative skills. Language A course is a three-year course and comprises four parts — two relate to the study of language and two to the study of literature. The focus of the Language A course is directed towards developing skills of textual analysis and literary criticism, as well as an awareness of how literary and non-literary texts convey meaning. The aims of teaching and studying the Language A course are to enable students to:

- Develop the skills involved in listening, speaking, reading and writing in a variety of contexts.
- Explore and analyze aspects of personal, host and other cultures through literary and non-literary works.
- Engage with information and communication technology in order to explore language.
- Develop critical, creative and personal approaches to studying and analyzing literary and non-literary works.

Assessments will be conducted with a standards-based, criterion-referenced approach and through a variety of methods, such as: dialogue, role-play, presentation, reading comprehension test, and written productions. These assessments will be used to evaluate students' performance as well as to facilitate their learning.

Homework: Moderate to Heavy



IB Mandarin B SL Y1-Y2

Course Code: HS5113 (Y1), HS5123 (Y2)

Duration: Two years

Prerequisites: 2 to 5 years of academic Chinese and instructor's approval

Credits: 2.0

IB Mandarin B SL course is a two year course covering the topics of communication and media, global issues, social relationships, cultural diversity, customs and traditions, health, leisure, science and technology. The emphasis of the course will be on the development of the four primary language skills of listening, speaking, reading, and writing through a variety of texts, topics, and materials. The aim is effective and accurate communication of language and ideas in all four areas. Students will be exposed to a variety of literary genres and writing styles such as: narratives, journals, short stories, biographies, novels, fictions, etc. History and culture are also explored within the language context of the course. IB students are required to sit the external exam at the end of year 2.

Homework: Heavy



IB Chinese A: Language & Literature

SL Y1-Y2

Course Code: HS5114 (Y1), HS5124 (Y2)

Duration: Two years

Prerequisites: 2 to 5 years of academic Chinese and instructor's approval

Credits: 2.0

IB Chinese A: Language and Literature SL is a two-year course. This exciting addition to the IB Chinese A course offerings will take an unconventional look at both traditional and nontraditional texts. The course will include, but is not limited to:

- A study of rhetoric and the impact of language use beyond that of literary analysis.
- An exploration of the connections between language and power, language and culture, and language and mass communication.
- Recognition of the importance of a writer's world and audience.
- Recognition of the impact of a reader's context on (multiple) readings of a text.
- Preparation for university-level writing for a variety of majors.

Since this course will study literary and non-literary texts, it best suits students who love literature and are interested in thinking about language in new ways. Standard-level students study four literary texts and several non-literary texts, produce three written tasks with one being for external assessment, and cover topics dealing with language in cultural context and language and mass communication. Students are required to sit the external exam at the end of year 2.

Homework: Heavy



IB Chinese A: Literature SL Y1-Y2

Course Code: HS5115 (Y1), HS5125 (Y2)

Duration: Two years

Prerequisites: 2 to 5 years of academic Chinese and instructor's approval

Credits: 2.0

IB Chinese A: Literature SL is a two-year course. This is a pre-university course in literature for students with a native or near native command of the Chinese language. The course, which is designed for students who desire enrichment in the study of literature, is divided into four parts: works in translation, detailed study of a group of works, literary genres, and options. Students examine 10 works of literature. Students will study and examine the conceptions, interpretations, and experiences of the world through literature. The emphasis of the course will be on literary analysis, oral communication skills, and the writing of clear, balanced, well-organized prose. Written and spoken communication will be assessed through internal (school) and external (IBO) assessment. Students are required to sit the external exam at the end of year 2.

Homework: Heavy



IB Mandarin B HL Y1-Y2

Course Code: HS5133 (Y1), HS5143 (Y2)

Duration: Two years

Prerequisites: 2 to 5 years of academic Chinese and instructor's approval

Credits: 2.0

IB Mandarin B HL course is a two year course covering the topics of communication and media, global issues, social relationships, cultural diversity, customs and traditions, health, leisure, science and technology. The emphasis of the course will be on the development of the four primary language skills of listening, speaking, reading, and writing through a variety of texts, topics, and materials. The aim is effective and accurate communication of language and ideas in all four areas. Curriculum centers around topics in literature, history, culture and social studies. IB students are required to sit the external exam at the end of year 2.

Homework: Heavy

**IB Chinese A: Language & Literature HL Y1-Y2**

Course Code: HS5134 (Y1), HS5144 (Y2)

Duration: Two years

Prerequisites: 2 to 5 years of academic Chinese and instructor's approval

Credits: 2.0

IB Chinese A: Language and Literature HL is a two-year course that examines both traditional and nontraditional texts. The course will include, but is not limited to:

- A study of rhetoric and the impact of language use beyond that of literary analysis.
- An exploration of the connections between language and power, language and culture, and language and mass communication.
- Recognition of the importance of a writer's world and audience.
- Recognition of the impact of a reader's context on (multiple) readings of a text.
- Preparation for university-level writing for a variety of majors.

Since this course will study literary and non-literary texts, it best suits students who love literature and are interested in thinking about language in new ways. Higher level students study six literary texts, several non-literary texts, produce four written tasks with two being for external assessment, cover topics dealing with language in cultural context, and language and mass communication. Students are required to sit the external exam at the end of year 2.

Homework: Heavy

**IB Chinese A: Literature HL Y1-Y2**

Course Code: HS5135 (Y1), HS5145 (Y2)

Duration: Two years

Prerequisites: 2 to 5 years of academic Chinese and instructor's approval

Credits: 2.0

IB Chinese A: Literature Higher Level (HL) is a two-year course. This is the study of literature for students whose native or best language is Chinese. The course is divided into four parts: works in translation, detailed study of a group of works, literary genres, and options. Students examine 13 works of literature. The course work explores a variety of world literature, comparing works that illustrate differences in expression, perspective, and thought across cultural, political, or linguistic borders. The emphasis of the course will be on developing the skill of independent literary analysis and the powers of expression in both written and oral communication. Written compositions, exams, and oral commentary will be assessed through internal (school) and external (IBO) assessments. Students are required to sit the external exam at the end of year 2.

Homework: Heavy

**IB Mandarin *ab initio* SL Y1-Y2**

Course Code: HS5159 (Y1), HS5150 (Y2)

Duration: Two years

Prerequisites:

Credits: 2.0



pamoja education
Teaching the IB online



This is a two-year course for students to achieve communicative competence in a variety of everyday situations. The objective of the course is clear and effective communication through the understanding and usage of a range of essential spoken and written forms of the language. The main focus of the course is on the acquisition of language for purposes and situations in everyday social interaction. While speaking and listening skills are emphasized, reading and writing skills are required as well. Aspects of the everyday life and culture of the Chinese speaking communities will be explored. The students are required to sit the both internal and external exam at the end of year 2.

This course will be taught online through Pamoja. For more information about this course, visit the Pamoja website: <http://www.pamojaeducation.com/IB-online-courses/mandarin-ab-initio.asp>

Homework: Heavy



VISUAL ARTS COURSES

VISUAL ARTS DEPARTMENT FLOW CHART

Grade 9 students may take:

Art Foundations

Innovation Institute students will take:

Creativity & Design
(Grade 9)



Innovation & Design
(Grade 10)

For new grade 10 students or students transferring from Performing Arts, based on meeting prerequisites:

Art Foundations

Digital Studio

Sculpture

Graphic Design

Intermediate Art Studio

Science, Technology,
Engineering &
Mathematics - S.T.E.M.

Grade 11 and 12 students may choose any of the courses below based on meeting prerequisites:

Art Foundations

Science, Technology,
Engineering &
Mathematics - S.T.E.M.

Advanced Art Studio

Sculpture

Intermediate Art Studio

Graphic Design

AP Art Drawing
(for seniors only)

Digital Studio

IB Visual Art SL/HL
(two-year course)

IB Film SL/HL
(two-year course)

Legend

- AP course
- IB course
- SAS course

Art Foundation

Course Code: HS6205

Duration: Year

Prerequisites: None

Credits: 1.0

Art Foundation is intended for students interested in art and is a recommended prerequisite for future art courses such as Intermediate Art Studio, Advanced Art Studio and IB Visual Art. The objective for this course is to introduce students to the world of art through an exploration of a wide variety of media and processes. Students will explore new concepts, theory and techniques through the study of the elements and principles of art and design. Students will learn how to develop artwork and ideas for personal expression. The course is a project and portfolio based class, in which students will be exposed to multiple genres of art work, art history and artists. Sketchbooks and projects as well as individual and class critiques will support the development of critical thinking skills.

Homework: Light



Creativity & Design

Course Code: HS6050

Duration: Year

Prerequisites: This course is only open to Innovation Institute Grade 9 students.

Credits: 1.0

This course is intended for Grade 9 students in the Innovation Institute program who want to learn the necessary tools that develop creative thinking. In this course we will examine where creativity comes from, how to create conceptual iterations of ideas and how to apply these processes towards a variety of interdisciplinary projects and challenges. Students will learn to analyze and deconstruct complex ideas and images in art, design, and media. Through various digital and traditional media projects, students will learn ways to improve self-assessment, critical thinking, communication, collaboration, management, and art and design skills.

Homework: Moderate



Innovation & Design

Course Code: HS6051

Duration: Year

Prerequisites: This course is only open to Innovation Institute Grade 10 students.

Credits: 1.0

This course allows Grade 10 students in the Innovation Institute program to build on skills developed in Creativity and Design and introduces them to new forms of contemporary media and art making. Students will analyze contemporary media and develop the skills to create effective forms of communication in both still (photography, graphic design) and moving images. Students will look at the critical importance of arts in the 21st century and add the element of design to the STEM (Science, Technology, Engineering and Math) fields in order to improve functionality and communication of meaning. To this end, students will learn how to build and test electronic circuits and create controllable electromechanical devices.

Homework: Moderate



Intermediate Art Studio

Course Code: HS6207

Duration: Year

Prerequisites: Art Foundations or Creativity and Design or permission from the teacher

Credits: 1.0

This course is intended for students who are interested in deepening their exploration of different art techniques, media and ideas. In order to help students become more thoughtful and skilled artists, projects will emphasize both technical skill development, as well as conceptual problem solving skills. The year is comprised of both teacher and student directed assignments. Students may choose to incorporate a variety of 2-D and 3-D techniques, such as drawing, painting, ceramics, and sculpture, in their work. Students will use sketchbooks to thoroughly explore visual ideas, to research the context of art-making, both historical and contemporary, and for personal reflection.

Homework: Moderate



Sculpture

Course Code: HS6005

Duration: Year

Recommended Prerequisites: Art Foundations or Creativity and Design

Credits: 1.0

This course is for students who want to gain experience working with a wide variety of sculptural materials. Throughout the year students will have the opportunity to create imaginative, decorative and functional pieces of art out of cardboard, wire, plaster, found objects and clay. The clay unit will focus specifically on hand building, throwing and carving techniques. Projects will explore both abstract and representational forms, as well as examine sculptural works from a variety of cultures and time periods.

Homework: Light



Advanced Art Studio

Course Code: HS6208

Duration: Year

Prerequisites: Two years of art courses

Credits: 1.0

Advanced Art Studio is intended for students who are interested in pursuing their artwork independently, without the formality of an external exam. Students will work with the art teacher to design a personal action plan which will challenge the student both technically and conceptually. Students will utilize personal sketchbooks to help in the development of their ideas. The format of Advanced Art Studio will allow for the creation of a personal portfolio of artwork in a wide variety of media, which may be used to apply for university or just for fun! This course will help students develop a personal sense of who they are as an artist. This course may be taken for multiple years.

Homework: Moderate



Science, Technology, Engineering & Mathematics - S.T.E.M.

Course Code: HS6052

Duration: Year

Prerequisites: Grade 10,11 or 12

Credits: 1.0

The S.T.E.M. course is based on the idea of educating students in four specific disciplines — science, technology, engineering and mathematics — in an interdisciplinary and applied approach. STEM integrates these into a cohesive learning experience based on real-world applications.

Students will be introduced to computer programming through issues associated with program design and development. Students will design algorithms and create programming solutions to a variety of computational problems using an iterative design and development process that culminates in the bridging of the virtual and physical world. Programming problems will include mathematical and logical concepts and a variety of programming constructs that control real world robotic devices and phone app development.

These programming concepts will be incorporated with learning how to design, simulate, build and test electronic circuits using logic gates. Circuits will be built with discrete components as well as programmable devices such as micro controllers and field programmable gate arrays. Students will use digital circuits and programming to create controllable electromechanical and robotic devices that help them to apply S.T.E.M. in real world applications.

Homework: Light



IB Visual Art SL/HL Y1

Course Code: HS6110 (SL-Y1), HS6130 (HL-Y1)

Duration: Year

Prerequisites: Two years of art courses

Credits: 1.0

IB Visual Art is intended for students with a serious interest in the visual arts, and a high level of commitment to studio work as well as research in a broad range of art related topics. In order to be successful, students are expected to be capable of in-depth, extensively personal art studio projects of their own design. Visual journals/sketchbooks require a strong commitment to personal research on diverse topics relating to technical, thematic, cultural, historical, aesthetic and other topics related to art. IB art students are expected to select, use and apply a variety of appropriate skills and techniques through experimentation with media, materials and techniques. IB Visual art requires students to investigate theoretical practice, art making practice, and curatorial practice. This two year course of study ends with an individual exhibition of the entire body of work, a final comparative study, and a process portfolio, all of which are assessed by IB.

The criteria for SL students is the same, however SL students exhibit 4-7 final pieces of studio work compared to HL which exhibits 8-11 final pieces.

Homework: Moderate to Heavy



IB Visual Art SL/HL Y2

Course Code: HS6120 (SL-Y2), HS6140 (HL-Y2)

Duration: Year

Prerequisites: IB Visual Art SL/HL Y1

Credits: 1.0

IB Visual Art is intended for students with a serious interest in the visual arts, and a high level of commitment to studio work as well as research in a broad range of art related topics. In order to be successful, students are expected to be capable of in-depth, extensively personal art studio projects of their own design. Visual journals/sketchbooks require a strong commitment to personal research on diverse topics relating to technical, thematic, cultural, historical, aesthetic and other topics related to art. IB art students are expected to select, use and apply a variety of appropriate skills and techniques through experimentation with media, materials and techniques. IB Visual art requires students to investigate theoretical practice, art making practice, and curatorial practice. This two year course of study ends with an individual exhibition of the entire body of work, a final comparative study, and a process portfolio, all of which are assessed by IB.

The criteria for SL students is the same, however SL students exhibit 4-7 final pieces of studio work compared to HL which exhibits 8-11 final pieces.

Homework: Heavy



AP Art Drawing

Course Code: HS6206

Duration: Year

Prerequisites: Two years of art courses. This course is only open to Seniors.

Credits: 1.0

The Drawing Portfolio is intended to address a very broad interpretation of drawing issues and media. Line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. The range of marks used to make drawings, the arrangement of those marks, and the materials used to make the marks are endless. There is no preferred (or unacceptable) style or content.

This is a very time intensive course. Students are expected to complete two pieces of art every two weeks. Good time management skills are a must for those considering enrolling in this course. AP Art Drawing will no longer be offered at SAS after this year.

Homework: Heavy



Digital Studio

Course Code: HS8001

Duration: Year

Prerequisites: Art Foundations or Creativity and Design

Credits: 1.0

The digital studio class will help you begin your journey in an exploration of digital photography and film making. The class will introduce you to the various functions of a Digital Single Lens Reflex camera and all its uses for both the still and moving image. For photography we will look at issues like exposure time - how long exposures can allow you to paint with lights and short exposures can capture movements the eye cannot see. We will look at how to bring out the best in every photograph with Adobe Photoshop and learn some techniques for creating our own imagery to enhance photos as well. We will also learn about digital film-making: basic shot types, camera movements, and video editing. Finally, we will learn how to get the best still and moving images through an effective use of lights and lenses.

Homework: Light



Graphic Design

Course Code: HS8010

Duration: Year

Recommended Prerequisites: Art Foundations or Creativity and Design

Credits: 1.0

Graphic design is everywhere. It is impossible to go through a day without seeing countless combinations of words and images in both print and electronic forms. This course is designed for students who are interested in learning how to use industry standard software such as Adobe Photoshop, Illustrator and InDesign to visually communicate their ideas. By working on projects such as cd covers, logos, magazines and posters, students will learn how designers combine words, images and art principles in order to create interesting and expressive pieces of design. Projects involving digital illustration will also be explored. Through class projects, students will not only develop their design and technical abilities, but they will also strengthen their conceptual thinking and problem solving skills.

Homework: Moderate



IB Film SL

Course Code: HS8165 (Y1), HS8175 (Y2)

Duration: Two years

Prerequisites: None

Credits: 2.0

Watch films. Think about films. Talk about films. Write about films. Make films. That's the heart of what IB Film is all about. Throughout the two year course, we will analyze how meaning is created and communicated in film language. We will study popular films, independent films, foreign films, and classic films. After we deconstruct these films down to their basic structures, we'll use those building blocks to make our own powerful films that tell engaging stories. In IB Film SL, we will cover the same material as in HL, but with fewer assignments, and less demanding assessments in year two. The first is a textual analysis, in which students will present an oral examination of a film for 10 minutes. The second is an independent project, in which students will create a short documentary script about a film topic of their choosing. Finally, students will create a production portfolio, which includes a five minute film, and a short written reflection.

Homework: Moderate; occasionally Heavy



IB Film HL

Course Code: HS8185 (Y1); HS8195 (Y2)

Duration: Two years

Prerequisites: None

Credits: 2.0

Watch films. Think about films. Talk about films. Write about films. Make films. That's the heart of what IB Film is all about. Throughout the two year course, we will analyze how meaning is created and communicated in film language. We will study popular films, independent films, foreign films, and classic films. After we deconstruct these films down to their basic structures, we'll use those building blocks to make our own powerful films that tell engaging stories. In HL, we will be working towards three different assessments in year 2. The first is a textual analysis, in which students will present an oral examination of a film for 15 minutes. The second is an independent project, in which students will create a documentary script about a film topic of their choosing. Finally, students will create a production portfolio, which includes a seven minute film, a trailer for the film, and a written reflection.

Homework: Moderate; occasionally Heavy



PERFORMING ARTS COURSES

PERFORMING ARTS DEPARTMENT FLOW CHART

Grade 9 students may choose the course below based on meeting prerequisites:

- Introduction to Drama
- Concert Choir 1
- Concert Band 1
- Orchestra 1
- Guitar 1

Grade 10 students may choose any of the courses below based on meeting prerequisites:

- | | | |
|---|-----------------|--|
| Introduction to Theatre | Concert Choir 1 | Orchestra 1 |
| Stagecraft & Theatre Production A <small>(semester course)</small> | Concert Choir 2 | Orchestra 2 <small>(by audition only)</small> |
| Stagecraft & Theatre Production B <small>(semester course)</small> | Concert Band 1 | Guitar 1 |
| | Concert Band 2 | Guitar 2 |

Grade 11 and 12 students may choose any of the courses below based on meeting prerequisites:

- | | | |
|---|--|-----------------|
| Stagecraft & Theatre Production A <small>(semester course)</small> | Advanced Theatre Arts Y1 | Concert Choir 2 |
| Stagecraft & Theatre Production B <small>(semester course)</small> | Advanced Theatre Arts Y2 | Concert Band 2 |
| | IB Theatre SL/HL <small>(two-year course)</small> | Orchestra 2 |
| | | Guitar 1 |
| | | Guitar 2 |
| | | AP Music Theory |

Legend

- AP course
- IB course
- SAS course

Concert Choir 1

Course Code: HS6020

Duration: Year

Prerequisites: None. Concert Choir 1 can be taken more than once.

Credits: 1.0

Concert choir is a performing group open to any student who can demonstrate an ability to match pitch and stay on a part. Choral literature of three to four parts, from the Renaissance to the present, is rehearsed and performed. Students will develop skills in vocal production, note and rhythm reading, listening, and conducting. Pianists are encouraged to audition for the accompanist role.

Homework: Moderate



Concert Choir 2

Course Code: HS6021

Duration: Year

Prerequisites: Teacher placement. Concert Choir 2 can be taken more than once.

Credits: 1.0

Concert choir is a performing group open to any student who can demonstrate an ability to match pitch and stay on a part. Choral literature of three to four parts, from the Renaissance to the present, is rehearsed and performed. Students will develop skills in vocal production, note and rhythm reading, listening, and conducting. Pianists are encouraged to audition for the accompanist role.

Homework: Moderate



Concert Band 1

Course Code: HS6022

Duration: Year

Prerequisites: One year previous experience required. Concert Band 1 can be taken more than once.

Credits: 1.0

Concert Band 1 (Intermediate) is open to all woodwind, brass, and percussion players who have at least one year of experience on their chosen instrument. Specific instrumental technique, ensemble skills, theoretical literacy, and historical awareness will be developed through the performance of a variety of Concert Band literature. This ensemble will build upon previous band experiences.

Homework: Moderate



Concert Band 2

Course Code: HS6023

Duration: Year

Prerequisites: Teacher placement. - Concert Band 2 can be taken more than once.

Credits: 1.0

Concert Band 2 is open to experienced woodwind, brass, and percussion players. Specific instrumental technique, ensemble skills, theoretical literacy, and historical awareness will be developed through the performance of a variety of Concert Band literature. This ensemble will build upon the Intermediate Concert Band experience. Please consult with your current teacher before requesting this course.

Homework: Moderate



Orchestra 1

Course Code: HS6024

Duration: Year

Prerequisites: One year experience or permission of teacher required. Orchestra 1 can be taken more than once.

Credits: 1.0

Orchestra 1 is open to experienced string players who wish to gain ensemble experience in different styles of music. Orchestra 1 generally comprises Grade 9 and 10 students.

Homework: Moderate (Except during the March production when homework may be heavy).



Orchestra 2

Course Code: HS6025

Duration: Year

Prerequisites: Teacher placement. Orchestra 2 can be taken more than once.

Credits: 1.0

Orchestra 2 is the elite String Orchestra of the school and entry is by audition open to all experienced violin, viola, cello, and double bass players. Specific instrumental techniques, ensemble skills, theoretical literacy, and historical awareness will be developed through the performance of a variety of orchestral literature from the Renaissance to the present. This ensemble will build on previous Orchestra I experience or demonstration of fifth position proficiency. Students should be able to demonstrate a variety of "off the string" bow strokes.

Homework: Moderate; occasionally Heavy



Guitar 1

Course Code: HS6026

Duration: Year

Prerequisites: None. Guitar 1 can be taken more than once.

Credits: 1.0

This is an introductory course dealing with the techniques and styles of guitar playing. Students will have hands-on experience with chords, plucking, and reading notes as well as tablature. Studies will be done through a variety of styles of music, from classical / flamenco to folk and rock and roll.

Homework: Moderate



Guitar 2

Course Code: HS6027

Duration: Year

Prerequisites: Guitar 1 or prior private lessons required for this course. Guitar 2 can be taken more than once.

Credits: 1.0

This course builds on the techniques learned in the Guitar 1 class. Students will have hands-on experience with more advanced chord progressions, strumming patterns, and note/tablature reading. In addition, students will gain experience in a variety of finger picking styles and open tunings. Studies will be done through a variety of styles of music, from classical/flamenco to folk and rock and roll.

Homework: Moderate



AP Music Theory

Course Code: HS6201

Duration: Year

Prerequisites: Consult with your current music teacher before requesting this course. In addition, this course will be offered every other year; students should plan accordingly.

Credits: 1.0

This course prepares the student to take the AP Music exam. Successful students should have a very strong background in voice, piano, or another instrument. The course studies the theory of traditional harmony and applies rules learned, through composition and analysis. The course equally develops high level listening and sight singing skills that are used for aural analysis, and sight singing.

Note: The course will be offered every other year. The next offering will be during the school year 2017-2018.

Homework: Heavy



Introduction to Drama

Course Code: HS6028

Duration: Year

Prerequisites: None

Credits: 1.0

This course is an introductory class with a focus on the basics of drama. This course requires students to create and to present dramatic works in original and scripted forms. Through this work students will learn to interpret, analyze, reflect, build communication skills, and perform.

Homework: Light to Moderate



Introduction to Theatre

Course Code: HS6029

Duration: Year

Prerequisites: None

Credits: 1.0

The study of Theatre creates the opportunity to create, present and analyze drama as a collective experience. By communicating through real and imaginary situations, students develop proficiency in listening, speaking, writing, questioning, reflecting, presenting and creating. Through the process of stepping into the shoes of another, students develop and express empathy and confidence. With the exploration of a variety of theatre styles, cultures and theories, they become aware of the universal nature of human existence.

Homework: Light to Moderate



Advanced Theatre Arts Y1

Course Code: HS6030

Duration: Year

Prerequisites: None

Credits: 1.0

The aims of the program in Advanced Theatre Arts are to help students understand the nature of theatre and how it is created. Through understanding its different forms in other cultures we can obtain a better understanding of ourselves, our society, and our world. Through the course there is considerable emphasis on ensemble work to build and maintain group dynamics, and allow for the development of acting and performance techniques. Students will study several contrasting traditions and cultures each year and will explore the practices of contemporary theatre companies and collaborative creation. They will also complete a director's notebook and present a research presentation during their time in the course. Production practices are put to use in the creation of at least one public performance each year. Students are asked to keep a portfolio of their work, and reflections in a response journal, often maintained digitally, which documents their theatre journey.

Homework: Moderate (Except during the March production).



Advanced Theatre Arts Y2

Course Code: HS6031

Duration: Year

Prerequisites: Advanced Theatre Y1

Credits: 1.0

The aims of the program in Advanced Theatre Arts are to help students understand the nature of theatre and how it is created. Through understanding its different forms in other cultures we can obtain a better understanding of ourselves, our society, and our world. Through the course there is considerable emphasis on ensemble work to build and maintain group dynamics, and allow for the development of acting and performance techniques. Students will study several contrasting traditions and cultures each year and will explore the practices of contemporary theatre companies and collaborative creation. They will also complete a director's notebook and present a research presentation during their time in the course. Production practices are put to use in the creation of at least one public performance each year. Students are asked to keep a portfolio of their work, and reflections in a response journal, often maintained digitally, which documents their theatre journey.

Homework: Moderate (Except during the March production when homework may be heavy).



Stagecraft & Theatre Production A & B

Course Code: HS6032A, HS6032B

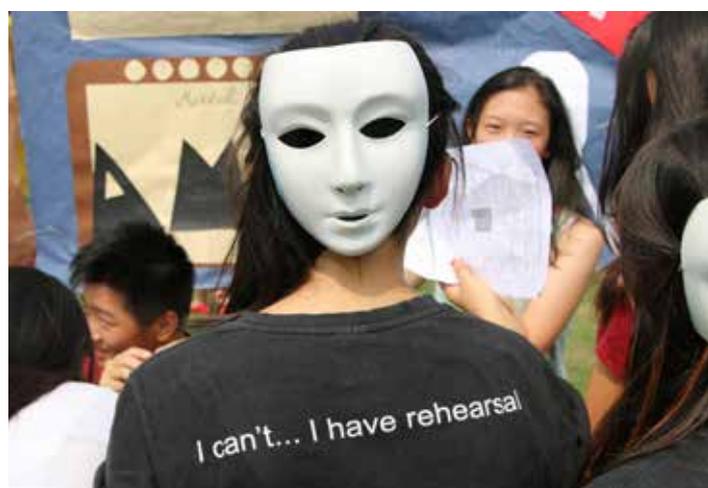
Duration: Semester

Prerequisites: None

Credits: 0.5 credit each

The purpose of this course is to introduce the student to technical theatre, the behind-the-scenes work that goes into a theatrical production. As an art form, this course allows students opportunities to examine and participate in the art of creating an acting environment, an environment designed to transport the viewer from the here and now to the there and then. Students will create with shop tools, paint, lighting instruments, and sound equipment. This course can be repeated.

Homework: Light



IB Theatre SL Y1-Y2

Course Code: HS6112 (Y1), HS6122 (Y2)

Duration: Two years

Prerequisites: One year of drama or theatre is recommended

Credits: 2.0

In the IB Theatre course students will explore theatre practices from Western and non-Western traditions and cultures. Students are encouraged to experience and participate in a wide and varied range of theatre activities, which include devising, performing, designing, directing, observing and reflecting on a range of different performance styles. Throughout the course students will develop academic skills appropriate for the study and understanding of theatre. They will also develop the confidence to explore and experiment – individually and collaboratively – on innovative projects that challenge established notions of theatre. Theatre is an ever-evolving art form, which reflects our ever-changing society. During year one, students will prepare for and create a director's notebook, a collaborative theatre project, and a presentation on practical research into performance. While year one of the course gives students a preparatory experience of the different assessment tasks, year two gives them the opportunity to choose more independently their focus for these tasks.

Homework: Moderate (Except during the March production when homework may be heavy).



IB Theatre HL Y1-Y2

Course Code: HS6132 (Y1), HS6142 (Y2)

Duration: Two years

Prerequisites: One year of drama or theatre is recommended.

Credits: 2.0

In the IB Theatre course students will explore theatre practices from Western and non-Western traditions and cultures. Students are encouraged to experience and participate in a wide and varied range of theatre activities, which include devising, performing, designing, directing, observing and reflecting on a range of different performance styles. Throughout the course students will develop academic skills appropriate for the study and understanding of theatre. They will also develop the confidence to explore and experiment – individually and collaboratively – on innovative projects that challenge established notions of theatre. Theatre is an ever-evolving art form, which reflects our ever-changing society. While year one of the course gives students a preparatory experience of the different assessment tasks, year two gives them the opportunity to choose more independently their focus for these tasks. By the completion of the course students will have created a collaborative theatre project, a director's notebook, a presentation on practical research into performance and will have presented a solo performance informed by a theatre theorist.

Homework: Moderate (Except during the March production when homework may be heavy).



PHYSICAL/HEALTH EDUCATION COURSES

PHYSICAL AND HEALTH EDUCATION DEPARTMENT FLOW CHART

Grade 9 students may choose any of the courses below based on meeting prerequisites:

Physical & Health Education I

Grade 10 students may choose any of the courses below based on meeting prerequisites:

Physical & Health Education II

Grade 11 and 12 students may choose any of the courses below based on meeting prerequisites:

**PE III:
Sports League**
(semester course)

**PE III:
Personal Fitness**
(semester course)

**PE III:
Swimming & Water
Safety Instructor**
(semester course)

**PE III:
Lifeguarding**
(semester course)

Legend

 SAS course

Physical & Health Education I

Course Code: HS7000

Duration: Year

Prerequisites: None

Credits: 1.0

The PHE I course at Shanghai American School emphasizes the vital importance of health and fitness to maintaining lifelong wellness. In order to foster this, students learn sporting rules and history, develop motor skills and knowledge of biomechanics, use advanced strategies, and practice fair play and cooperation. A strong emphasis is also placed on daily effort and participation.

Physical Education units include both team and individual activities such as fitness, aquatics, basketball, badminton and soccer. Students are assessed on personal and social behavior, performance, attitude, personal growth and skill, which they play a role through self-assessment. In addition, a theory portion provides all students the opportunity to display their knowledge and understanding of learning targets throughout each unit. Beginning next year, students will have the opportunity to make their own choices in deciding the best avenue for leading a healthy and active lifestyle during the second semester.

In all lessons students wear heart rate monitors in which they download and interpret data. This practice also assists in equity of involvement/effort, feedback for parents, application to theory, safety and quality of participation. Students can and should be taught differently. PHE teachers change instruction and use a variety of approaches to capitalize on students' learning styles with visual, audio, kinesthetic and tactual learning tools to accommodate these differences and to address their multiple intelligences.

The Health element of the course is designed to educate students to make positive and intelligent decisions that will enhance their quality of life. This will help to educate all students in sexual health, self-esteem, values, decision-making skills, and advocacy. In accordance with their multiple intelligences, students are offered a variety of means by which to present their knowledge and understanding of course work. During this time of reduced physical activity, students are encouraged take part in aerobic exercise in their free time.

Homework: Light to Moderate



Physical & Health Education II

Course Code: HS7001

Duration: Year

Prerequisites: Physical & Health Education I

Credits: 1.0

The PHE II course at Shanghai American School emphasizes the vital importance of health and fitness to maintaining lifelong wellness. In order to foster this, students learn sporting rules and history, develop motor skills and knowledge of biomechanics, use advanced strategies, and practice fair play and cooperation. A strong emphasis is also placed on daily effort and participation.

Physical Education units include both team and individual activities such as fitness, aquatics, basketball, badminton and soccer. Students are assessed on personal and social behavior, performance, attitude, personal growth and skill, which they play a role through self-assessment. In addition, a theory portion provides all students the opportunity to display their knowledge and understanding of learning targets throughout each unit. Beginning next year, students will have the opportunity to make their own choices in deciding the best avenue for leading a healthy and active lifestyle during the second semester. This will allow them to continue in sporting activities or take their learning a step further in Foundation Sport and Exercise Health Science.

In all lessons students wear heart rate monitors in which they download and interpret data. This practice also assists in equity of involvement/effort, feedback for parents, application to theory, safety and quality of participation. Students can and should be taught differently. PHE teachers change instruction and use a variety of approaches to capitalize on students' learning styles with visual, audio, kinesthetic and tactual learning tools to accommodate these differences and to address their multiple intelligences.

The Health element of the course is designed to educate students to make positive and intelligent decisions that will enhance their quality of life. This will help to educate all students in sexual health, self-esteem, values, decision-making skills, and advocacy. In accordance with their multiple intelligences, students are offered a variety of means by which to present their knowledge and understanding of course work. During this time of reduced physical activity, students are encouraged take part in aerobic exercise in their free time.

Homework: Light to Moderate



PE III – Personal Fitness

Course Code: HS7002

Duration: Semester

Prerequisites: Physical & Health Education II or equivalent

Credits: 0.5

This class is designed to help students achieve their goals in sport or advanced fitness. It is based on functional fitness tailored to the specific needs of each student. Training is progressive and includes core, functional, cardio, and sports-specific type training. The course begins with a fitness assessment unit where students will write personal goals for exercise and nutrition. Students will then keep journals as they design and implement their own personal fitness and nutrition plan based on their fitness test results.

Students will explore current topics in weight training and personal fitness and how to apply these to their own personal fitness programs and to the personal training of others. Students will be involved in learning elements of personal training and taking a leadership role with their fitness knowledge.

Homework: Light



PE III – Sports League

Course Code: HS7003

Duration: Semester

Prerequisites: Physical & Health Education II or equivalent

Credits: 0.5

Keep fit through playing sport! Opportunities are provided for students to experience sport as a player, coach, referee, and organizer. Areas of study include rules, strategies, etiquette, sportsmanship, ethics, planning/preparation, training methods, conditioning, skills, multi-tasking, and collaboration.

The course is divided into four seasons (units), which are comprised of pre-season preparation, in-season match play, and postseason playoffs to determine final placings. During each season, students are required to coach a team (plan, prepare, and lead practice sessions, as well as prepare and organize their team in match play), referee (establish season rules, interpretations, and etiquettes and create match reports), or plan and organize all aspects of a season (create season fixture and referee schedule, display seasonal promotional posters and match photos, update team standings after each round of matches, present end-of-season team awards, and select an all-star team).

Homework: Light



PE III – Swimming & Water Safety Instructor

Course Code: HS7006

Duration: Semester

Prerequisites: Physical & Health Education II or equivalent

The prerequisites for entry in the water safety instructor course are:

- Be at least 16 years of age by the last scheduled session of the instructor course;
- Demonstrate swimming skills consistent with ARC Learn to Swim Level 4, by swimming the following strokes with good form: front crawl, back crawl, breaststroke, elementary backstroke, sidestroke, butterfly, back float 1 minute and tread water for 1 minute. If you are a little weak in your stroke there is time to improved your skills and technique.

Credits: 0.5

This course is designed for students who have completed the PHE graduation requirement and would like to continue to develop their knowledge and skills in swimming and swim instruction. On completion, students will be swimming and water safety instructors. Certification is valid for 2 calendar years and renewable through instructing at least one course per authorized period. To successfully complete the instructor course:

- Successfully complete all practice-teaching assignments.
- Pass 3 preparatory quizzes and the final written exam with a minimum grade of 80 percent.

Students must demonstrate that they are mature and responsible in and around the aquatic environment.

Course Texts: ARC: Water Safety Instructor's Manual and Swimming and Water Safety Book and on-line video material.

Homework: Light



PE III – Lifeguarding

Course Code: HS7007

Duration: Semester

Prerequisites: Physical & Health Education II or equivalent

Physical & Health Education I & II or equivalent; be at least 15 years of age by the last scheduled session of the course; swim 500 yards continuously as follows: 200 yards front crawl using rhythmic breathing, 100 yards breaststroke and 200 yards of front crawl and/or breaststroke. Swim 20 yards using front crawl or breaststroke, surface dive to a depth of 7-10 feet, retrieve a 10 pounds/4.5 kg object, return to the surface and swim 20 yards back to the starting point with the object within a time of 1:40.00.

If you are not swim fit at the start of the course you will have 3 weeks to complete the swimming prerequisite.

Credits: 0.5

The course teaches candidates the skills and knowledge needed to prevent and respond to aquatic emergencies. It will prepare students to recognize and respond quickly and effectively to emergencies, prevent drowning and injuries, and administer first aid, CPR/AED. The course requires a reasonably strong swimming ability equivalent to our middle or upper group levels in swimming in PE.

Students must demonstrate that they are mature and responsible. This course leads to certification for Life-guarding, First Aid and CPR/AED, which is valid for 2 calendar years from the date of course completion.

To successfully complete the lifeguard course the student must: participate in all activities, successfully perform the required skills, complete 6 skill scenarios, pass 3 quizzes and pass the two ARC written exams with a minimum grade of 80 percent or better. Students must also demonstrate that they are mature and responsible in and around the aquatic environment. Course Texts: ARC: Lifeguard Participants Manual.

Homework: Light



ELECTIVE COURSES

Students may choose any of the courses below based on meeting prerequisites:

| | | | | |
|--|--|-----------------------------|--|---|
| Theory of Knowledge | Science, Technology, Engineering & Mathematics - S.T.E.M. | AP Capstone Seminar | IB Computer Science SL (two-year course) | IB Sports, Exercise, & Health Science SL (two-year course) 1 credit - Science 1 credit Elective |
| Creative Writing A (semester course) | AP Computer Science Principles | AP Capstone Research | IB Computer Science HL (two-year course) | |
| Creative Writing B (semester course) | AP Computer Science A | | | |

Legend

- AP course
- IB course
- SAS course

Creative Writing A

Course Code: HS8300
 Duration: Semester
 Prerequisites: English 10
 Credits: 0.5 elective credit, NOT English credit

This course is an introduction to creative writing in a variety of genres and formats, using a workshop style approach to instruction. Because it is a skills course and not a content course, students may sign up for more than one semester with the understanding that the materials for the course will be their own fresh creative writing efforts.

Students are expected to produce original works in several genres, including poetry, short stories, and creative nonfiction. In addition, students are expected to offer insightful feedback to others' work through the group writing workshop process. Class participation in the writing process is an essential element of the course, and a part of that participation will involve presentations to the class of the students' own writing as well as presentations of various authors.

Homework: Moderate



Creative Writing B

Course Code: HS8301
 Duration: Semester
 Prerequisites: English 10
 Credits: 0.5 elective credit, NOT English credit

This course is an introduction to creative writing in a variety of genres and formats, using a workshop style approach to instruction. Because it is a skills course and not a content course, students may sign up for more than one semester with the understanding that the materials for the course will be their own fresh creative writing efforts.

Students are expected to produce original works in several genres, including poetry, short stories, and creative nonfiction. In addition, students are expected to offer insightful feedback to others' work through the group writing workshop process. Class participation in the writing process is an essential element of the course, and a part of that participation will involve presentations to the class of the students' own writing as well as presentations of various authors.

Homework: Moderate



Theory of Knowledge

Course Code: HS8101 (Y1 – grade 11 students only),
HS8102 (Y2 – grade 12 students only)

Duration: Year
Credits: 1.0

Theory of Knowledge is a required core course for the IB diploma and is also available for non-diploma students. The course studies knowledge itself (epistemology) and investigates such questions as “How do you know what you know?”; “Can knowledge lead to truth?”; and “How do we integrate knowledge across personalities and cultures?” The course material examines different ways of acquiring knowledge and the relevance of these methods across subject areas, then asks students to analyze and reflect on personal and societal applications. Many students find it thought-provoking and influential in developing their life goals and world view. Instructors have wide discretion in structuring classes and assessments.

Seminars and discussions are common, as are presentations, papers, journals, and group projects. Attendance and participation are key.

Note that this course runs during the second semester of grade 11 and the first semester of grade 12. It is expected that students will take both semesters. The formal IB assessments of one essay & one oral presentation take place during the grade 12 semester.

Homework: Moderate



AP Capstone Seminar

Course Code: HS8202

Duration: year

Prerequisites: Student must be in grade 10 or 11

Credits: 1.0

This foundational course of the AP Capstone Program provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students explore real-world issues through a cross-curricular lens and consider multiple points of view to develop deep understanding of complex issues as they make connections between these issues and their own lives. Students read articles, research studies, and foundational and philosophical texts; listen to and view speeches, broadcasts, and personal accounts; and explore artistic and literary works to gain a rich appreciation and understanding of issues. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



AP Capstone Research

Course Code: HS8400

Duration: Year

Prerequisites: AP Capstone Seminar

Credits: 1.0

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year long mentored, research-based investigation to address a specific question. In this course, students further develop the skills acquired in the AP Seminar course by learning about and understanding research methods; employing ethical research practices, and accessing, analyzing, and synthesizing information as they address a research question. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



Science, Technology, Engineering & Mathematics - S.T.E.M.

Course Code: HS6052

Duration: Year

Prerequisites: Grade 10,11 or 12

Credits: 1.0 Art Credit

The S.T.E.M. course is based on the idea of educating students in four specific disciplines — science, technology, engineering and mathematics — in an interdisciplinary and applied approach. STEM integrates these into a cohesive learning experience based on real-world applications.

Students will be introduced to computer programming through issues associated with program design and development. Students will design algorithms and create programming solutions to a variety of computational problems using an iterative design and development process that culminates in the bridging of the virtual and physical world. Programming problems will include mathematical and logical concepts and a variety of programming constructs that control real world robotic devices and phone app development.

These programming concepts will be incorporated with learning how to design, simulate, build and test electronic circuits using logic gates. Circuits will be built with discrete components as well as programmable devices such as micro controllers and field programmable gate arrays. Students will use digital circuits and programming to create controllable electromechanical and robotic devices that help them to apply S.T.E.M. in real world applications.

Homework: Light



AP Computer Science Principles

Course Code: HS8204

Duration: Year

Credits: 1.0

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. This rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. The AP Computer Science Principles course teaches the concepts and computational thinking practices central to the discipline of computer science — and is organized around the investigation of seven topics, all of which are fundamental principles of computing and STEM (science, technology, engineering, mathematics) careers.

Students who take the AP Computer Science Principles course will develop a range of skills vital to success in subsequent college courses, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

Homework: Moderate



AP Computer Science A

Course Code: HS8201

Duration: Year

Prerequisites: Algebra II/Trigonometry

Credits: 1.0

The goals of an AP course in computer science are comparable to those in the introductory sequence of courses for computer science majors offered in college and university computer science departments. It is not expected, however, that all students in an AP Computer Science course will major in computer science at the university level. An AP Computer Science course is intended to serve both as introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with technology. All students enrolled in an AP subject must sit the external exam at the end of the school year.

Homework: Heavy



IB Computer Science SL Y1-Y2

Course Code: HS8115 (Y1), HS8125 (Y2)

Duration: Two years

Credits: 2.0

The IB computer science course helps students become aware of how computer scientists work and communicate with each other and with other stakeholders in the successful development and implementation of IT solutions. While the methodology used to solve problems in computer science may take a wide variety of forms, the Group 4 computer science course emphasizes the need for both a theoretical and practical approach. Students acquire an understanding of the fundamental concepts of computational thinking and of how computers and other digital devices operate, and learn the skills necessary to create computer programs using the Java programming language. During the course students will develop computational solutions. This will involve the ability to: identify a problem or unanswered question; design, prototype, and test a proposed solution; liaise with clients to evaluate the success of the proposed solution; and make recommendations for future developments. Students are assessed internally through a software design and creation project, and externally through a written exam.

Homework: Moderate



IB Computer Science HL Y1-Y2

Course Code HS8135 (Y1), HS8145 (Y2)

Duration: Two years

Credits: 2.0

The IB computer science course helps students become aware of how computer scientists work and communicate with each other and with other stakeholders in the successful development and implementation of IT solutions. While the methodology used to solve problems in computer science may take a wide variety of forms, the group 4 computer science course emphasizes the need for both a theoretical and practical approach. Students acquire an understanding of the fundamental concepts of computational thinking and of how computers and other digital devices operate, and learn the skills necessary to create computer programs using the Java programming language. During the course students will develop computational solutions. This will involve the ability to: identify a problem or unanswered question; design, prototype, and test a proposed solution liaise with clients to evaluate the success of the proposed solution; and make recommendations for future developments. Students are assessed internally through a software design and creation project and externally through a written exam. In addition, students taking IB Computer Science at the HL level will explore a number of higher level programming concepts and skills including recursive algorithms, the creation and use of abstract data structures, systems resource management, and control systems.

Homework: Moderate



IB Sports, Exercise, & Health Science SL Y1-Y2

Course Code: 7030 (Y1), 7031 (Y2)

Prerequisites: Physical & Health Education II

Duration: Two years

Credits: 1.0 Science (Y1), 1.0 Elective (Y2)

This two-year course aims to introduce students to some of the scientific components that make up the study of sport, exercise, and health. The diploma program course in Sports, Exercise, and Health Science involves the study of the science that underpins physical performance and provides the opportunity to apply these principles.

As stated in the IB guide, this course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology, and nutrition, which are studied in the context of sport, exercise, and health. Students will cover both core and option topics and carry out practical (experimental) investigations in both laboratory and field settings. This will provide an opportunity to acquire the knowledge and understanding necessary to apply scientific principles and critically analyze human performance. Where relevant, the course will address issues of internationalism and ethics by considering sport, exercise, and health relative to the individual and in a global context.

Homework: Moderate to Heavy



LEARNING SUPPORT & ENGLISH AS AN ADDITIONAL LANGUAGE (EAL)

Student may be placed into the following classes:

Learning Support

EAL
Academic Literacy

EAL Flex 9

EAL Flex 10

Legend

 Learning Support
& EAL

Learning Support

Course Code: HS8901

Prerequisites: Grade 9, 10, 11, 12 students may only join this course through counselor placement

Credits: 0

The Learning Support (LS) program provides opportunities for students with learning differences to experience academic success through a combination of skills-based and course-specific support. Students in the LS program may receive push-in and/or pull-out learning support as well as accommodations for learning and assessment. The program focuses on learning strategies that will contribute to each student's academic and personal growth.

EAL Academic Literacy

Course Code: HS8007

Prerequisites: Grade 9 students may only join this course through teacher placement.

Credits: 1.0

The Academic Literacy course has been designed to support and empower 9th grade EAL students who need to become more comfortable and confident in their academic literacy skills. In this class, we will use texts and materials from both core classes and the real world to practice reading, writing, speaking and listening in English. Writing activities will help improve the organization, content, and mechanics of the students' writing. We will read novels and others kinds of writing in order to help the students become faster and improved readers. Listening activities will help students understand what teachers are saying and improve their note taking skills. Speaking activities will help students gain confidence in teacher and peer interactions.

EAL Flex 9

Course Code: HS9030

Prerequisites: Grade 9 students may only join this course through teacher placement.

Credits: 0

EAL Flex functions as a study hall in which students can receive help with their work for other classes from their EAL instructor. Although, at its core, this class is an independent study hall, it is also designed to assist English language learners in improving their English skills. There will be short lessons in the areas of speaking, writing, reading, vocabulary, and study skills with special emphasis on academic language that students will need to be successful in their other school courses. The course will be taught using methods designed to teach students English as an additional language.

EAL Flex 10

Course Code: HS9032

Prerequisites: Grade 10 students may only join this course through teacher placement.

Credits: 0

EAL Flex functions as a study hall in which students can receive help with their work for other classes from their EAL instructor. Although, at its core, this class is an independent study hall, it is also designed to assist English language learners in improving their English skills. There will be short lessons in the areas of speaking, writing, reading, vocabulary, and study skills with special emphasis on academic language that students will need to be successful in their other school courses. The course will be taught using methods designed to teach students English as an additional language.

ONLINE LEARNING

Grade 11/12 may enroll in the following online learning options:

Pamoja Education

Virtual High School

Legend

-  Pamoja IB online courses
-  VHS online courses





pamoja education
Teaching the IB online



SAS is proud to offer even broader curriculum opportunities to our students.

Where a clear need exists we may be able to provide IB online courses. These online courses will be available in the first instance to IB Diploma students. While studying online is an academically respected option, it may not suit all students. Course tuition fees will be paid by SAS.

The online courses will be offered through Pamoja, an approved provider of IB courses online. You can find out more about Pamoja on their website: <http://www.pamojaeducation.com>

Why would an IB student take a course online?

- The student's subject choices do not quite match the master schedule. Occasionally there are scheduling conflicts, and rather than constraining a student to make a second choice, online could be an option.
- If there were only a small amount of students wanting to do a course.
- Other extenuating circumstances, including students transferring part way through the diploma.

Courses offered by Pamoja:

IB Mandarin ab initio

IB French ab initio

IB Business & Management HL

IB Business & Management SL

IB Information Technology in a Global Society HL

IB Information Technology in a Global Society SL

IB Philosophy SL



VIRTUAL HIGH SCHOOL

Welcome to Virtual High School
Global Consortium

SAS students in grades 11 and 12 may request to take an online course from the Virtual High School (VHS) for SAS credit. These courses will be taken entirely online from a non-SAS teacher. Courses offered by VHS include AP and regular courses. Many VHS courses are offered for one semester while AP classes are offered for a full year. You can peruse the courses available in the VHS Course Catalog at <http://www.govhs.org/Pages/Academics-Catalog>.

SAS students may take a maximum of seven courses in any semester, which can include one VHS course per semester. The grade for the VHS course will appear on the student's SAS report card and transcript and will be calculated as part of their grade point average. There is no additional cost for an approved SAS student to take a VHS course.

Students who are interested in taking a VHS course should review all the relevant information on the Virtual High School site and complete the VHS Pre-Student Survey (<http://www.govhs.org/Content/InfoFor-StudentSurvey>) to decide if an online course is right for them. Students should then meet with their guidance counselor

to discuss the implications of taking a VHS course.

Students who, after meeting with their counselor, would like to request to take an online VHS course should complete the VHS application form (available in the Counseling Office) and attach a copy of the VHS Pre-Student Survey with their answers. The completed application should be submitted to the student's counselor with their course selection form at the regular due date for course selections.

Seats for VHS courses are limited. Mr. Mark Moselle, Puxi HS VHS site coordinator, will make the final approval for all VHS course requests. Priority for VHS courses will be given to students with schedule conflicts and students who are requesting courses not offered at SAS.

If you are interested in taking an online course, please review the VHS Course Catalog (<http://www.govhs.org/Pages/Academics-Catalog>) and carefully decide which courses you might like to take. If you have any questions about the VHS program at SAS, please contact Counselor Mark Moselle (mark.moselle@saschina.org).



Example of Virtual High School Course Offerings



Shanghai American School - Virtual High School Partnership

Students in grades 11 and 12 may request to take an online course from the Virtual High School (VHS) (www.govHS.org) for SAS credit. These courses will be taken entirely online from a non-SAS teacher. The grade for the VHS course will appear on the students SAS transcript and will be calculated as part of their grade point average. Interested students must apply and receive administrative approval. There is no cost for an approved SAS student to take a VHS course. However, spaces are limited. For more information see Mr. Moselle (mark.moselle@saschina.org).

Virtual High School offers a catalog of full semester courses in the Arts, Foreign Language, Language Arts, Life Skills, Math, Science, Social Studies, Technology, and AP1 Study to students in VHS member schools. The courses listed are current at the time of publication. Visit our website at www.govHS.org for the most current offerings.

AP® Courses

AP® Art History
 AP® Biology
 AP® Calculus AB
 AP® Calculus BC
 AP® Chemistry
 AP® Computer Science A
 AP® Economics: Micro and Macro
 AP® English Language and Composition
 AP® English Literature and Composition
 AP® Environmental Science
 AP® European History
 AP® French Language and Culture
 AP® Government & Politics: U.S.
 AP® Human Geography
 AP® Music Theory
 AP® Physics 1
 AP® Physics C
 AP® Psychology
 AP® Spanish Language and Culture
 AP® Statistics
 AP® U.S. History
 AP® World History

World Language

Chinese Language and Culture
 German language and Culture
 Italian Language and Culture
 Latin 1
 Latin 2
 Portuguese 1
 Russian Language and Culture
 Spanish 1
 Spanish 2

Language Arts

Around the World in 80 Days*
 Creative Writing
 English 10
 English 11
 English 12
 Essay Writing
 Fantasy and Science Fiction Short Stories
 Film and Literature
 Folklore and Literature of Myth, Magic, and Ritual
 Ghoulies, Ghosties, and Long-Legged Beasts*
 Horror Writers
 Journalism in the Digital Age
 Literature of the World
 Mythology
 Poetry Writing
 Screenwriting Fundamentals*
 Shakespeare in Films
 To Kill a Mockingbird*
 Twentieth Century Women Authors
 Young Adult Literature*

Business

Business Math
 Entrepreneurship: Starting Your Own Business
 International Business
 Investing in the Stock Market
 Marketing and the Internet
 Personal Finance

Mathematics

Algebra 1*
 Algebra 2*
 Calculus Honors
 Geometry
 Math You Can Use In College
 Mathematical Reasoning and Logic
 Mathematics of Electricity*
 Number Theory
 Pre-Calculus: Advanced Trigonometry
 Pre-Calculus: Functions
 Statistics Honors

Science

Advanced Topics In Chemistry
 Anatomy & Physiology
 Animal Behavior and Zoology
 Astronomy Principles
 Biochemistry
 Bioethics
 Biotechnology
 Chemistry Honors
 Climate Change
 DNA Technology
 Earth and Space Systems Science
 Environmental Science
 Epidemics
 Evolution and the Nature of Science
 Forensic Science
 Genes and Disease
 Meteorology
 Nuclear Physics
 Oceanography
 Physics
 Preventatory Medicine
 The Human Body

Social Studies

Constitutional Law
 Criminology
 Current Issues in American Law and Justice

Social Studies con'd

Eastern and Western Thought
 Economics Honors
 Peacemaking
 Philosophy I
 Practical Law
 Psychology Honors
 Psychology of Crime
 Sociology*
 Sports and American Society
 The Glory of Ancient Rome
 The Golden Age of Classical Greece
 The Holocaust
 U.S. Government
 U.S. History: 1745 - 1877
 U.S. History: 1877 - Present
 World Conflict, a United Nations Introduction
 World History: 1450 - Present
 World History: Pre-History to 1500
 World Religions

Computer Science and Technology

CAD*
 Computational Science and Engineering Using Java
 Computer Science Honors
 Creative Programming from Scratch
 Programming in Visual Basic*
 Sustainable Energy Engineering
 Technology and Multimedia*
 Video Game Design Using GameMaker
 Web Design: Advanced
 Web Design Basics

Engineering

Engineering for Sustainable Energy
 Engineering Principles

1 VHS is qualified through the AP Course Audit to label its courses "AP"

Our Mission

Shanghai American School inspires in all students:

上海美国学校激励并培养所有的学生：

A lifelong passion for learning

终身学习的热情

A commitment to act with integrity and compassion

诚信与仁爱的信念

The courage to live their dreams.

追求梦想的勇气。



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