

# High School Course Description Guide

**2025-2026**



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High School CDG





## Naga (Dragon)

The dragon is a Chinese symbol that has been absorbed into Indonesian art. To the Chinese he represents good fortune and symbolizes many things such as happiness, perseverance and excellence and the ability to overcome all obstacles to achieve success. The Naga is seen as the Guardian of the Earth.

The design of the Naga on the JIS batik is based on the JIS dragon fountain on the Cilandak campus – a Balinese design (as is the design of Jatayu). The faces have been changed to the comical designs of Javanese Naga's to represent Fun and make us smile.



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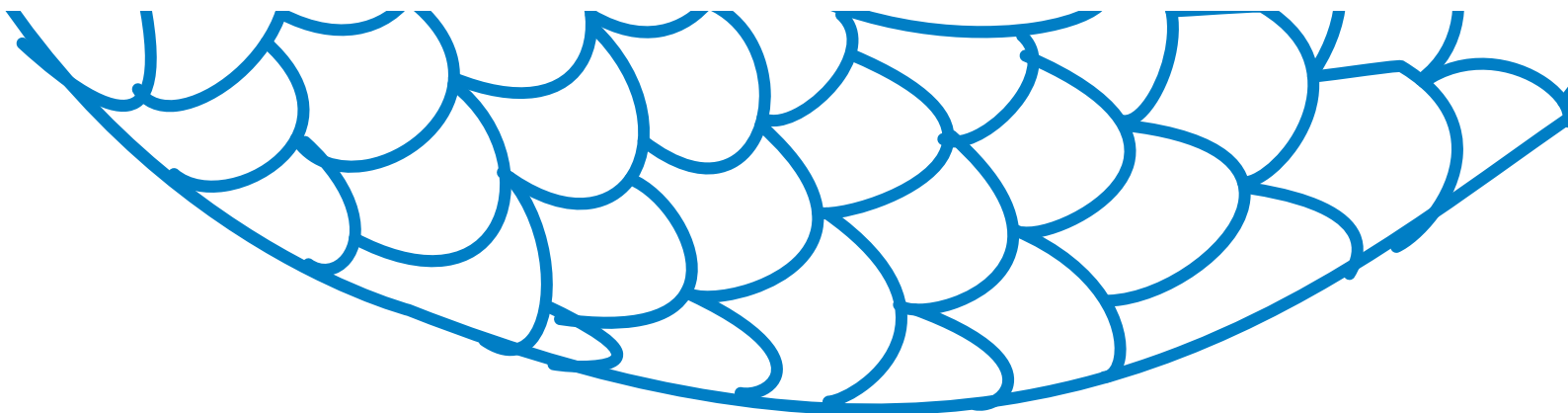
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# Introduction

## Purpose of the Course Description Guide

The *Course Description Guide* (CDG) helps each student plan a high school program that meets their individual interests, abilities, needs and goals for further education. The CDG describes all of the courses the high school intends to offer in the following academic year.

*Please note the inclusion of a course in the CDG **does not** guarantee that the course will be offered next year. Courses are scheduled on the basis of student interest and the most effective utilization of teachers and resources. The school reserves the right to cancel any course for administrative reasons.*

New students to the high school may find that some of their first choices are unavailable because they were over-subscribed. We apologize for that, however, students and parents should study the CDG for each subject area and the program planning advice and other information given in order to make an informed selection from the courses offered. Students and parents who require more information about courses and who need assistance in program planning should arrange to meet with teachers, counselors, IB/AP Coordinator and/or Vice Principal for Curriculum and Learning.

## Academic Programs

JIS offers a full high school program of studies based on the best curriculum models worldwide, which are designed to prepare students for college or university studies. The Grade 9 and 10 program consists of curriculum based on international curriculum standards that is designed to prepare students for success in Grades 11 and 12. In Grades 11 and 12, JIS offers internally developed high school courses and courses within the International Baccalaureate (IB) and Advanced Placement (AP) curriculum. The primary focus of our IB and AP curriculum is to prepare students to be critical thinkers, equipped with the academic skills necessary for rigorous university study. All courses are taught in English, with the exception of modern language course offerings.

## The HS Schedule and Student Course Load

### High School timetable and SLA

The High School timetable consists of a 10 day cycle where days are named by letters 'A' through 'J'. There are 5 class blocks each day, which makes 50 blocks in a 10 day cycle. Students take a range of 34-45 blocks each semester. All high school students are enrolled in Supervised Learning and Advisory (SLA). The purpose of SLA is to provide students time during the school day to do "homework", study for classes, and fulfil other requirements of their learning such as meeting with teachers for extra help. Students also follow an Advisory curriculum in the SLA, which focuses on essential skills and concepts appropriate to each grade level. Lessons include developing balance and wellness in their lives, time management, digital citizenship, and how to work through conflict with peer social groups.

### Honor Pass

All students have Honor Passes within the 10 day cycle. Honor Passes are "free blocks" during which students are self-directed in their learning. They may meet with teachers, visit the library, work collaboratively with peers, or simply relax between classes. We have intentionally structured an increasing number of Honor Passes from Grade 9 to 12 in order to support students in their ability to manage free time successfully. We believe this is an essential part of the JIS experience that prepares students to be successful in university studies. Students who do not demonstrate the ability to successfully manage free time may lose this privilege.

**Grade 9:** A typical Grade 9 student will have the following classes that each meet 5 times over a 10 cycle: SLA 9, English 9, Mathematics, Science, Social Studies, Modern Language, Visual Arts (the equivalent of 2 credits), and PE/Health. This equals 45 out of 50 blocks over a 10 day cycle. Students have one Honor Pass every other day.

**Grade 10:** A typical Grade 10 student will have the following classes that each meet 5 times over a 10 cycle: SLA 10, English 10, Mathematics, Social Studies, and a choice of Sciences, Modern Languages, and/or Visual Arts. Students may begin a limited selection of AP courses in Grade 10. All students take Health and Wellness and 2 PE semester courses. This usually equals 45/50 periods over the 10 day cycle in class. Students have one Honor Pass every other day.

**Grade 11/12:** In Grades 11 and 12, students have the opportunity to focus or “specialize” in areas of passion. For example students may take multiple courses within one subject area such as the arts, the sciences, or social studies. Students may begin IB and begin or continue taking AP courses in Grade 11. All students must maintain a timetable with a minimum of 34 blocks and maximum 45 blocks out of 50 over a 10 day cycle. This is made up mostly of courses that meet 4 times over 10 days or 6 times over 10 days.

#### Examples:

An IB Diploma student will usually have 40/50 (3 Higher Level courses = 18 blocks, 3 Standard Level courses = 15 blocks, ToK = 4 blocks, SLA = 3 blocks)

**From academic year 20/21 all Grade 11/12 SLA will be 3 blocks**

## Block Counts

### Block Counts 25/26

6 Block courses (5 +1)	5 Block courses	4 block courses	3 block courses	4 block courses in one semester
AP Chemistry	Bahasa, Sastra and PPKN 9 (WNI only) Bahasa dan Sastra 10	IB Core (was ToK) G11 and G12	All Grade 11/12 SLA	PPKn 11
Both English APs: Lit and Comp and Lang and Comp	AP B/C Calc	All PE 11/12 courses		PPKn 12
AP Seminar/AP research	AP Human Geo	Maths in decision making/Pre- college maths		
AP Psychology	AP Macroeconomics	Academic Eng 11/12		
AP A/B Calc	AP Microeconomics	Independent Study		
AP US History	All IB SL classes			
All AP Art & Design	AP US Government & Politics	Learning Strategies 11/12		
All Higher Levels IB	All 9/10 classes incl SLA			

Indonesian Ab Initio	All 9/10 PE Classes			
AP Comparative Govt	English 11/ English 12			
AP Modern World History	AP Stats			
AP Pre-calculus	All CA options that are non/IB/ AP including Independent Study: Art			
	All PA options that are non/ IB/AP including Independent Study: Theatre Tech			
AP Biology	Bahasa and Sastra Indonesia 11			
AP Comp Sci A/	Bahasa and Sastra Indonesia 12			
APES	Investigative Science/ Practical Physics/ Food Science/ Advanced Chemistry			
AP Physics 2	AP Physics 1			
AP Music TheoryComputer systems (semester 1 with IB Computer science H2)	GOA			
	Mandarin, French, Spanish, Indonesian, Japanese 1-4 French 5 Korean Lang and Lit 9/10 French Lang and Lit 9/10 (Not Running on SY 2025-26) World Languages 9/10			
	Physical & Human Geography			
	Modern World History			



	AP European History			
	SS One Semester Courses Criminology Business & Society Sports & Society Business Psychology Personal Finance Maps of the Modern World			
	Global Perspectives			
	PPKn G10 (one semester)			
	AP Comp Sci Principles			
	AP Physics C/ Mechanics			
	AP Physics C/E&M			
	Physical computing			
	Game design & development			
	Robotics 1, 2, 3			

## Scheduled blocks

## Where the +1 fits in/CD's version

1a	5B
1b	5C
2a	5D
2b	5E
3a	5H
3b	5G
4a	5J
4b	5I
5A	Free*
5F	Free*

# JIS High School Graduation Requirements

Minimum credit requirements for JIS Graduation

Subject Area/Discipline	Requirements
English	4 credits
Mathematics	2 credits
Science	2 credits
Social Studies	2 credits
Modern Languages <sup>1</sup>	2 credits
Physical Education <sup>2</sup>	2 credits
Health <sup>3</sup>	0.5 credits
Visual Arts <sup>4</sup>	2 credits
Supported Learning and Advisory (SLA)	Compulsory course each year
Indonesian Studies	0.5 credits required for all non-Indonesian passport holders (one time in HS)
Indonesian Civics/Pendidikan Pancasila <sup>5</sup>	Compulsory course for Indonesian passport holders each year
Religion	Compulsory course for Indonesian passport holders each year
JISCAS (Creativity, Action & Service) 9-12 (IBCAS for Grade 11 & 12 if the student is an IB Diploma student)	Successful completion of 9/10 and 11/12 components
LEAD week experience	Successful completion of annual LEAD week requirements (does not apply to G12)
Electives	Remaining credits
<b>Total graduation credits</b>	<b>24 credits</b>

1. Indonesian students must take one of our year-long Indonesian language classes all 4 years, totalling 4 credits of Modern Language
2. credit may be waived for Indonesian students if student chooses an additional language to Indonesian for both grades 9 & 10. PE & Health requirements should be completed by the end of Grade 10 for students arriving in Grades 9 or 10.
3. PE & Health requirements should be completed by the end of Grade 10 for students arriving in Grades 9 or 10.
4. credit may be waived for Indonesian students if student chooses an additional language to Indonesian for both grades 9 & 10
5. Indonesian National required courses are included in “externally examined courses” along with International Baccalaureate and Advanced Placement courses.

## Letter Grades and GPA

Letter Grades are reported at the end of each semester and credit is awarded for courses successfully completed. With effect from the class of 2015 there will be no weighting of GPA. The scale below indicates the corresponding letter grade and grade points:

Grade	Grade Points
A*	4.3
A	4.0
B	3.0
C	2.0
D	1.0
F	0.0

## Credits

At least five credits must be earned at JIS to be eligible for graduation. Courses taken in Grades 6, 7 and 8 **do not count** for graduation credits. A student must satisfactorily complete a full semester of work, complete all key summative assessments (including tests, projects, exams etc) in order to receive a semester grade and one-half credit.

## JIS CAS (Creativity Action Service)

In the High School, all students from Grades 9-12 will be involved in creativity, activity and service experiences as an integral component of the High School experience and thus it is a crucial **graduation requirement**. It will be comprised of two components, both of which need to be completed by any student in the High School;

1. Grade 9/10 JISCAS
2. Either Grade 11/12 JISCAS or IBCAS
  - Please note; If a student enrolls in Grade 10, 11 or 12, only the possible component(s) remaining need to be completed for graduation.
  - Please see the full description in the High School Handbook regarding CAS requirement at this [link](#)

## Credit for JIS Academy Summer Program Coursework

Courses offered through the JIS Academy Summer Program may be taken for enrichment, enhancement and in order to allow students more room in their schedules throughout the year. It is not the function of the JIS Academy Summer Program to facilitate early graduation. JIS credit will not be granted for courses taken at any other educational institution during the summer.

## Graduation Requirement Exemptions

JIS is a mission driven school and our graduation requirements reflect our values and core documents as well as the requirements of a rigorous high school academic program. Only under exceptional circumstances will graduation requirements be exempted or waived. Such an exemption can only be granted by the High School Principal, after consultation with the High School Counseling Department. Students who enter the high school in Grade 11 may request to waive certain graduation requirements as there may not be room in their schedules, which are devoted to curriculum to prepare them for university study.

## Early Graduation

Jakarta Intercultural School's High School academic program is designed to be completed in eight semesters. In special circumstances, and only for students meeting the academic requirements, there may be a compelling reason for a student to graduate in December of his or her senior year.

The following conditions must be met in order for a student to graduate in December:

1. A letter requesting consideration for December graduation must be submitted by parents to the school principal by 15 April of a student's Grade 11 school year. The letter of application for December graduation must demonstrate a compelling need and provide specific reasons.
2. The following criteria must be met for eligibility:
  - The student must have spent one academic year at Jakarta Intercultural School and must have earned at least five JIS credits before applying for December graduation.
  - The student must have earned the minimum credit requirements for graduation.
  - A minimum grade-point average (GPA) of 3.00 is required at the time of application. This minimum 3.00 GPA must be maintained throughout the student's final semester.
  - The student must have demonstrated a level of competence in the English language, as represented by the successful completion of English 11 or equivalent.
  - The student must have completed a minimum of eight semesters of high school.
  - Requests for December graduation will be granted before the end of the Grade 11 school year.

# IB & AP Program & Courses

## Policy on Registration for External IB and AP Exams

In addition to the educational benefits and increased credibility of an externally assessed exam, it is important that JIS as an institution report accurately to universities the courses students have taken. The IB or AP designation is significant information and many universities assume that if the IB/AP course is listed on the transcript the external exam will be taken. Therefore, it is mandatory for all students enrolled in an IB or AP course to register for and sit the external exam in May.

Approximate costs for each program are approximately \$160 per IB subject and \$200 per AP subject. Registration occurs in October while payment occurs in November before the May session in which the student will sit the exam(s). Changes or cancellations made to exam orders after the Nov 15 deadlines will result in additional fees.

If a student does not register for the external exam they may be required to move to a suitable alternative course at the end of the semester. If there is no such alternative and the student remains in the IB or AP course, the course title will be changed on the student's transcript to remove the IB or AP designation. For example, "IB H2 Physics" would simply become "Physics." Additionally, a student not sitting the external exam would be required to write a JIS year-end exam instead and submit any additional projects as determined by the subject teacher.

### Advanced Placement (AP)

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AP Capstone Diploma Courses

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AP Seminar

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AP Research

### International Baccalaureate Diploma Program (DP)

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IB Core 1

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IB Core 2

## International Baccalaureate Diploma Program (DP)

The International Baccalaureate Organization (IBO) provides a rigorous university-level curriculum and assessment for courses in the final two years of high school.

IB Courses may be taken individually for IB Certificates or as part of the full IB Diploma Program (DP). The IB DP is widely recognized and highly respected by colleges and universities all around the world. Students who complete the IB Diploma Program or Courses/Certificates may be granted credit or allowed to take more advanced courses in many colleges and universities.

To earn an IB Diploma, a student must successfully complete the Core of the DP as well as the required distribution of Courses. The three elements of the IB DP Core are:

1. The Theory of Knowledge (TOK) component,
2. Creativity, Activity, and Service (CAS) experiences, and
3. The Extended Essay (EE).

The Course distribution requires one course each in the following Groups:

1. Studies in language and literature,

2. Language acquisition,
3. Individuals and societies,
4. Science,
5. Mathematics,
6. The Arts (or a second course in one of the above groups)

Descriptions for each of the subjects on offer from the IB can be found on this link: <https://www.ibo.org/university-admission/support-students-transition-to-higher-education/faqs-for-counsellors-students-and-parents/> under “Diploma Program Subject briefs”

Three of these courses must be taken at the Higher Level (HL) and three at the Standard Level (SL).

Four Higher Level courses: While typically not necessary for university entry, students at JIS can self-advocate for the right to take four HL courses rather than the standard three. Students choosing to exercise this right, should be aware that this is a significant increase in workload.

JIS offers the following IB Courses in each Group (subject to sufficient enrolment). Courses are offered at both the HL and SL levels unless otherwise noted.

### Language A

- IB English A Lang & Lit
- IB English A Literature
- IB Japanese A Lang & Lit
- IB Korean A Lang & Lit
- IB Indonesian A Lang & Lit

### Language B

- IB English B
- IB French ab initio
- IB French B
- IB Indonesian ab initio
- IB Indonesian B
- IB Japanese B
- IB Mandarin ab initio
- IB Mandarin B
- IB Spanish ab initio
- IB Spanish B

### Social Studies

- IB Business Management
- IB Economics
- IB Geography
- IB Global Politics
- IB History
- IB Psychology

### Science

- IB Biology
- IB Chemistry
- IB Computer Science
- IB Enviro Systems & Societies
- IB Physics
- IB Sports, Exercise & Health Science

### Math

- IB Analysis & Approaches
- IB Math Applications & Interpretation

### Visual Arts

- IB Dance
- IB Film
- IB Theatre Arts
- IB Visual Arts

## IB DP Core 1 & 2

### IB Core 1 (49551y)

*One year - 1 credit*

*Grade 11 (obligatory for grade 11 IB Diploma Program candidates)*

This course brings together the three elements of the IB Core; The Theory of Knowledge course, the Extended Essay, and support for reflections in CAS. “Who am I as a knower? How do I know those things I believe to be true?” The purpose of this course is to help students recognize themselves as “knowers.” They are invited to question the validity of the bases of knowledge they receive in their schooling, as a foundation for lifelong learning and the development of a personal

philosophy. The skills emphasized in the course are critical thinking, active discussion, analytical writing and integration of knowledge. Much of the first year of this two-year course is devoted to consideration of the Ways of Knowing - and their relationship to knowledge. Also covered are Areas of Knowledge: natural and human sciences and the arts.

### IB Core 2 (49552y)

One year - 1 credit

Grade 12 (obligatory for grade 12 IB Diploma Program candidates)

Prerequisite: IB Core 1

This course brings together the three elements of the IB Core; The Theory of Knowledge course, support for the Extended Essay, and CAS support. This course represents the second year of a two-year course. While the same skills are emphasized in both years, the course content changes a bit in the second year, with more of a focus on the remaining Areas of Knowledge: mathematics and history. Overall course assessment also takes on more importance, with attention paid to the final essay on a prescribed title and the oral presentation.

## Advanced Placement (AP)

The College Board's Advanced Placement (AP) program provides rigorous university-level curriculum and assessment for courses in the final two years of high school.

AP Courses may be taken individually or as part of the AP Capstone Diploma Program. The AP is widely recognized and highly respected by hundreds of colleges and universities around the world. Students who complete the AP Capstone Program or AP courses may be granted credit or allowed to take more advanced courses in many colleges and universities.

To earn an AP Capstone Diploma, a student must take and pass AP Seminar and AP Research in addition to four (4) AP courses of their choosing. Students who take and pass AP Seminar and AP Research without the additional required four (4) AP Courses will earn the AP Seminar and Research Certificate.

Students wishing to register for exams without taking the corresponding course may apply to the HS Administration to sit an AP exam without registering for the course. Students wishing to do this must contact the AP Coordinator before the end of October.

**Grade 9 students are not permitted to register in AP Courses.**

**Grade 10 students have a restricted range of AP courses open to them on the condition that it fits their schedule. Currently available for G10 are as follows:**

- AP Human Geography
- AP World History: Modern (*due to scheduling, cannot be taken if student is also taking AP Seminar*)
- AP Physics 1
- AP Computer Science Principles
- AP Seminar (*with recommendation from either G9 English or Social Studies teacher. Due to scheduling, cannot be taken if student is also taking AP World History: Modern.*)

**G10 students should be aware that in the case of 6 block AP classes they will lose one honor pass for each AP class.**

**Science**

- AP Biology
- AP Chemistry
- AP Computer Science A
- AP Computer Science Principles
- AP Environmental Science
- AP Physics 1 & 2
- AP Physics C

**Social Studies**

- AP Comparative Government
- AP Human Geography
- AP Macroeconomics
- AP Microeconomics
- AP Modern World History
- AP Psychology
- AP US History
- AP European History
- AP US Government

**Visual Arts**

- AP Drawing
- AP 2D Art and Design
- AP 3D Art and Design

**Math**

- AP Calculus AB
- AP Calculus BC
- AP Statistics
- AP Precalculus

**English**

- AP Language & Composition
- AP Literature & Composition

**Performing Arts**

- AP Music Theory

## AP Capstone Diploma Program Courses

**AP Seminar (25101y)**

*One year - 1 credit*

*Grade 10, 11, 12*

*Prerequisite: No prerequisite for students wishing to take AP Seminar in Grade 11 or 12; students wishing to take AP Seminar in Grade 10 must have recommendation from either G9 English or Social Studies teacher.*

AP Seminar is a college-level, skills-based course focused on student-directed research, writing and oral presentations. Students will explore a wide variety of source material of different types and disciplines. Students practice reading and analyzing a variety of sources, learn to synthesize information from multiple sources, develop their own perspectives in research-based essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments; skills with immediate and long-term applicability for university and beyond. (Adapted from AP Resources at [www.collegeboard.com](http://www.collegeboard.com)).

**AP Research (25102y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: AP Seminar*

Building upon the fundamental research, writing and presentation skills forged in AP Seminar, 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 research-based investigation to address a research question. Students further the skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address their research question. Students create and maintain a year-long portfolio that documents their ongoing reflections upon their process. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation including a public oral defense. (Adapted from AP Resources at [www.collegeboard.com](http://www.collegeboard.com)).



# Global Online Academy

JIS is fortunate to be a member of the Global Online Academy network ([www.globalonlineacademy.org](http://www.globalonlineacademy.org)). This gives us access to a wide range of outstanding online courses. Learning in an online environment is an important life skill for our students. The GOA experience connects you to a global network of people and resources: students and teachers come from over sixty of the best independent schools worldwide.

## GOA Administration

1. A passing grade in a GOA course will provide the student with an elective credit of 0.5, which will count towards the 24 credits required for graduation from JIS.
2. It is generally only possible to take one GOA course in any one semester.
3. GOA courses can only be taken by Grade 11 and 12. The only possible exception to this are the GOA summer school courses (see below), which can be taken in the summer between G10 and G11.
4. Important note: There will be an **additional course fee** borne by the student's family to have access to GOA courses, which will now include Indonesian taxes in addition to the course fees. Please ensure that your parents are aware of this.
5. GOA counts as a 5 Block class in student schedules

## Registering for a GOA Course

If you are interested in taking a GOA academy course. Please do ALL of the following steps (especially step 3):

1. Please sign up through our course selection process
2. Let your counselor and parents know of your interest
3. Register for the course you want at this link: <https://globalonlineacademy.org/student-program/student-courses>
4. Contact the Associate Principal for Curriculum & Learning, who will confirm your place on the GOA Site Director Portal.

## Required Materials

If you have signed up for a GOA course for the upcoming academic year you can find the required materials list here:

<https://docs.google.com/spreadsheets/d/18TaIO4lhXXs9Ihw9TJLxXhtsBSB9TIJfkQAfYtJvol/edit?gid=0#gid=0>.

## GOA Second Semester Classes

GOA Semester 2 lasts from Jan 10, 2024-April 26, 2024. You can register for them here:

[https://goa.my.site.com/registration/s/catalog?gl=1\\*1o6if6k\\*\\_ga\\*MTI3MjU0MDAyMi4xNzAzODQwMTgz\\*\\_ga\\_H7XZM6E8F3\\*MTcwNDE4ODI3Ny40LjEuMTcwNDE5MTIyNi42MC4wLjA](https://goa.my.site.com/registration/s/catalog?gl=1*1o6if6k*_ga*MTI3MjU0MDAyMi4xNzAzODQwMTgz*_ga_H7XZM6E8F3*MTcwNDE4ODI3Ny40LjEuMTcwNDE5MTIyNi42MC4wLjA).

## GOA Summer Courses

Learn more about GOA Summer courses here:

<https://globalonlineacademy.org/student-program/summer-courses>

<chrome-extension://efaidnbmninnnibpcapjpcgclcfndmkaj/https://globalonlineacademy.org/media/publications/GOA-2024-Summer-Course-Catalog.pdf>

## External links

Global Online Academy YouTube channel: <https://www.youtube.com/@GOAlearning>  
 Global Online Academy website: <https://globalonlineacademy.org/>  
 Global Online Academy term dates and course catalogs: <https://globalonlineacademy.org/student-program/student-courses>

## ELECTIVES

These courses do not gain credit in a particular *subject* area, but credits gained do count towards graduation requirements.

### Independent Living (7502s) Semester One - Gr 11 & 12 Semester Two - ONLY Gr. 11 (Due to the scheduling of Mock and Final Exams for 12th graders)

*One semester - 0.5 credit,  
Pass/Fail Grades 11, 12 - priority given to seniors*

This fun, hands-on course is for Grade 11 and 12 students to learn the basic survival skills for an independent life after JIS. Many new practical skills will be acquired, such as car and home maintenance, healthy cooking, budgeting, and interview skills. The underlying goal is to help students with transition skills that would be required for a healthy, happy, independent life away from home.

This pass/fail course provides students an opportunity to regularly engage in a strength and conditioning program throughout the semester. Students will be able to pursue their personal interests and passions in fitness through daily workouts and increase their personal wellness by adding balance to their lives. Emphasis will be placed on safe, functional, multi-joint exercises as students learn to develop and implement their own exercise program. This course is designed for all levels of fitness, strength, and experience in the weight room. The end goal is that students become competent at a wide range of exercises and use of gym equipment so that they gain a sense of confidence and autonomy in any weight room setting.

### Self Defense and Mixed Martial Arts (7520s)

*One semester - 0.5 credit, Pass/Fail  
Grades 11, 12  
Prerequisite: 2 credits of PE*

This pass/fail course is designed to expose grade 11 and 12 students to a variety of Self Defense and Mixed Martial Arts type techniques and strategies in a fun and non-threatening environment. It will combine various elements of Boxing, Muay Thai, Brazilian Jiu Jitsu and Grappling (wrestling) and students will develop skills, understand personal defense and improve their athletic training. Students will learn self defense principles and develop strategies on how to be safe and be aware of potential dangers in their surroundings.

### Yoga and Wellness (7396s)

*One semester - 0.5 credit, Pass/Fail  
Grades 11, 12  
Prerequisite: 2 credits of PE*

This class is designed to help you explore mindfulness in your own life, through Yoga, breathing, meditation, and other stress-relieving activities. The goal of the course is to improve your overall wellness, by helping balance your body, mind and spirit. This is an introductory course, therefore no prior experience or exposure is required.

### Personal Training & Conditioning 2 (7501s)

*One semester - 0.5 credit, Pass/Fail  
Grades 11, 12  
Prerequisite: 2 credits of PE*

### Dragon Sports (75032s)

*One Semester - 0.5 credit, Pass/Fail  
Grades 11, 12  
Prerequisite: 2 credits of PE*

Dragon Sports is designed to engage students in a higher-level sports environment, focusing on skills, understanding of movement, and elevated

gameplay. Building off prior knowledge of offensive and defense tactics and strategies, students will engage in both familiar and unfamiliar game situations. Students will also be exploring individual development through the application of concepts, teamwork, and leadership. No prerequisites are required, however, students need to be willing to participate in an exciting, fast-paced environment.

### Teacher Aide (2600s)

One semester – 0.5 credit Pass/Fail

Grades 11, 12

Prerequisite: counselor approval/teacher recommendation.

This elective provides students with an opportunity to work with a JIS faculty member in a variety of settings. The nature of the work is determined by the supervising teacher but typically the work falls into one of, or a combination of, three broad categories: classroom aide (involves working with students in a classroom environment); clerical aide (assisting with tasks like word processing, filing, scanning, bulletin board maintenance); research/technology/subject aide (help in the library, assist in Theater classes, demonstrate software, analyse data, gather web resources). Students are given the opportunity to choose which kind of work they would like to do, but this choice is contingent on teacher demand. Aides are evaluated by their supervising teachers on a bi-weekly basis and their performance is measured against 4 criteria: demeanor, punctuality, use of assigned time and quality of work.

### Independent Study

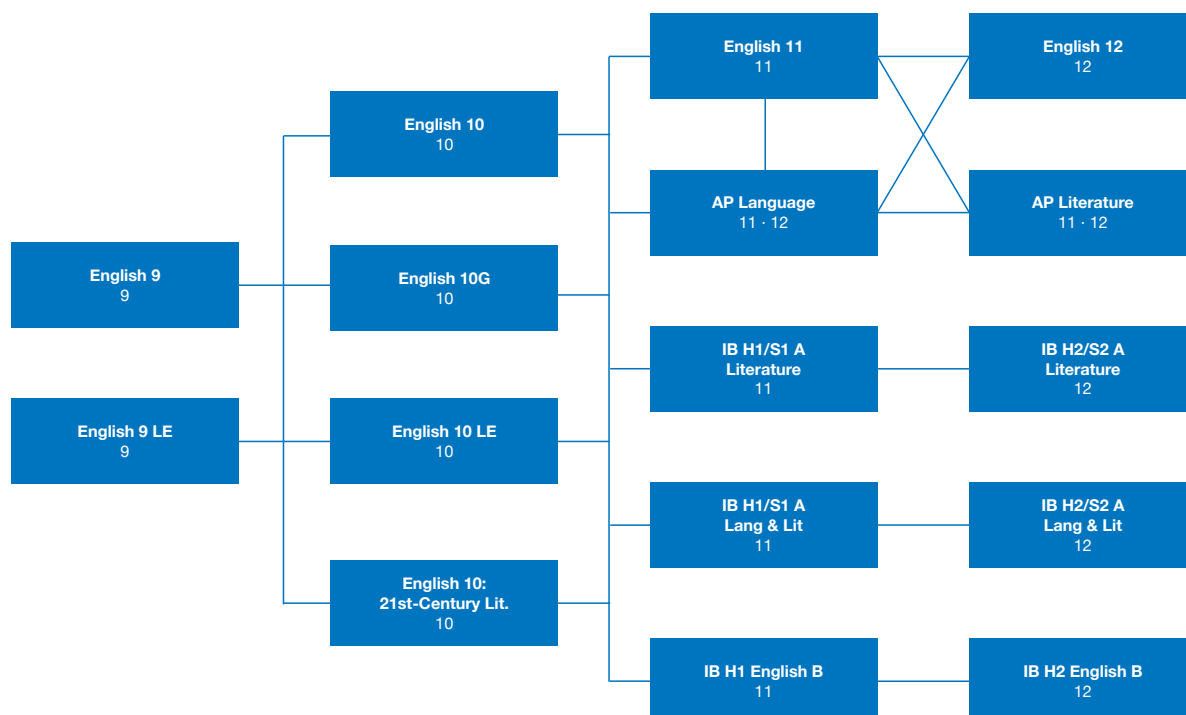
One semester - 0.5 credit

Grade 12

Prerequisite: None, students will need the dispositions to work independently

This foundation course has been designed for learners to study a topic area of their choosing. The course is process-orientated, and there are a variety of possible outcome pathways depending on student interests and choice of investigation. It is particularly appropriate for students who wish to apply their other studies in order to explore a real-world situation either in Indonesia or more globally. Students will develop their general project management skills and in particular, the ability to plan, manage the research process, work to deadlines and reflect critically upon their work. While elective credit is awarded upon successful completion of this course, in certain circumstances students may apply for credit awarded to a specific department depending on the area of the investigation. Suitably in-depth study topics on an aspect of Modern Indonesia can count for the MoE Indonesian Studies requirement if no other Indonesian Studies options fit into the student's schedule. Students wishing to undertake this option should contact the Vice Principal of Curriculum and Learning with their topic for approval.

## ENGLISH



# ENGLISH

## Department Philosophy

The English Department believes that every student should know how to think, listen, write and speak clearly, read with understanding and appreciation, analyze what they read and see, and be exposed to some of the best examples of written and visual texts.

### English 9 (1151y)

*One year - 1 credit*

*Grade 9*

*Prerequisite: English 8*

This course offers a balanced language arts experience. It focuses upon the development and refinement of reading, writing, oral communication and the beginnings of media literacy. The students widen their understanding and appreciation of a variety of texts through participating in a range of activities. A built in independent reading program endeavours to strengthen students' reading through goal setting, reflection and conferencing.

*and teacher recommendation or qualifying scores on Admissions criteria.*

English 10 LE mirrors as closely as practicable the content covered in English 10 (see above) and serves the same preparatory function. The chief distinction between LE courses and their non-LE counterparts is English reading, writing, speaking and listening proficiency is developed simultaneously with knowledge of course content. A built-in independent reading program endeavours to strengthen students' reading through goal setting, reflection and conferencing.

### English 9 LE (1201y)

*(Also see same course description in E. English Language and Learning Support Classes)*

*One year - 2 credits (this class meets every day)*

*Prerequisite: 8th-grade teacher recommendation*

English 9 LE mirrors as closely as practicable the content covered in English 9 (see above) and serves the same preparatory function. The chief distinction between LE courses and their non-LE counterparts is that English reading, writing, speaking, and listening proficiency is developed simultaneously alongside knowledge of course content. An independent reading program endeavours to strengthen students' reading through goal setting, reflection and conferencing.

### English 11 (1351y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: English 10, English 10G or English 10LE*

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

### English 10 (1251y)

*One year – 1 credit*

*Grade 10*

*Prerequisite: English 9 or English 9LE.*

In this course students focus on the genres of poetry, drama, the novel and nonfiction. They study a variety of composition skills, writing both formally and informally. Emphasis is placed upon growth of reading, writing and speaking with an understanding of the conventions of various text types and media. An independent reading program endeavours to strengthen students' reading through goal setting, reflection and conferencing.

### IB H1 English A Literature: (1816y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: English 10, English 10G or English 10LE*

A rich and challenging two-year course, this offering is designed for those with a passion for literature. Through different perspectives of culture and context, students will refine their critical thinking, close reading, writing, speaking and listening skills, while engaged in the exploration and enjoyment of the nature of literature, the aesthetic function of literary language and the relationship between text and the world and themselves. Students will study 13 texts (over the two years) that encompass a range of exciting literary genres from different cultures and periods - including poetry, novels, drama, essays, graphic novels and non-fiction, with the goal of developing an understanding of the factors that contribute to the production and reception of literature. In turn, this will encourage the exploration of how viewpoints are shaped by cultural belief systems and how meaning is negotiated by the reader.

### English 10 LE (1301y)

*(Also see same course description in E. English Language and Learning Support Classes)*

*One year – 1 credit*

*Grade 10*

*Prerequisite: successful completion of English 9 LE*

The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB S1 English A Literature (1812y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: English 10, English 10G or English 10 LE*

This two-year course is aimed at those students who enjoy reading literature.

Through different perspectives of culture and context, students will refine their critical thinking, close reading, writing, speaking and listening skills, while engaged in the exploration and enjoyment of the nature of literature, the aesthetic function of literary language and the relationship between text and the world and themselves. Students will study 9 texts (over the two years) that encompass a range of exciting literary genres from different cultures and periods - including poetry, novels, drama, essays, graphic novels and non-fiction, with the goal of developing an understanding of the factors that contribute to the production and reception of literature. In turn, this will encourage the exploration of how viewpoints are shaped by cultural belief systems and how meaning is negotiated by the reader.

The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB H1 English A Language and Literature (1826y)

*First year – 1 credit*

*Grade 11*

*Prerequisite: English 10, English 10G or English 10 LE*

This rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB S1 English A Language and Literature (1827y)

*First year – 1 credit*

*Grade 11*

*Prerequisite: English 10, English 10G or English 10 LE*

This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB H1 English B (1820y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: successful completion of English 10 LE or teacher recommendation.*

The first of a two-year sequence, this course is designed for the non-native English speaker whose language skills require further enhancement to meet the challenges of university studies or a future career. These interactive listening, speaking, reading and writing skills are developed through the study of a wide range of text types and media resources. The literature of the course reflects the current expectations of the English B Higher Level examination. Students enrolled in this course will be expected to participate in a class service and community project, and take the IB examination at the end of Year 2.

### AP Language and Composition (1830y)

*One year – 1 credit*

*Grade 11, Grade 12*

*Prerequisite: English 10, English 10G or English 11*

In this course, students read a variety of texts and garner information from different mediums of communication including non-fiction from different time periods, news-writing, literature, Internet sites, as well as television stories and advertising. Through active class discussion and debate, they dissect and analyze the strategies that authors, reporters, graphic designers, advertisers, and artists employ to sway their audiences. Students of AP Language and Composition also learn how to respond to texts and information through well thought-out arguments produced in both timed and untimed writing assignments. Although they read some fictional material to enhance close reading skills and develop voice, the majority of texts will be nonfiction. At the end of this course students will be expected to take the AP Language and Composition examination. AP



Language and Composition is open to all juniors and seniors who have the support of their English 10 / English 11 teacher.

### English 12 (1356y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: English 11*

English 12 is designed to prepare students for the rigors of college-level English through the continued development of critical reading, writing and speaking skills. Because English 12 does not culminate in an externally assessed exam, students and teacher have the latitude to explore a wider variety of genres and cultures with respect to the reading and writing covered.

### IB H2 English A Literature (1836y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 English Literature*

The second of a two-year sequence, this is a continuation of the first year course. Focus remains on different perspectives of culture and context, students will refine their critical thinking, close reading, writing, speaking and listening skills, while engaged in the exploration and enjoyment of the nature of literature, the aesthetic function of literary language and the relationship between text and the world and themselves. Students will study 13 texts (over the two years) that encompass a range of exciting literary genres from different cultures and periods - including poetry, novels, drama, essays, graphic novels and non-fiction, with the goal of developing an understanding of the factors that contribute to the production and reception of literature. In turn, this will encourage the exploration of how viewpoints are shaped by cultural belief systems and how meaning is negotiated by the reader. Ongoing opportunities to refine written skills in preparation for the IB A1 Higher exam in English. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB S2 English A Literature (1837y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 English Literature*

The second of a two-year sequence, this is a continuation of the IB S1 English Literature course. Through different perspectives of culture and context, students will refine their critical thinking, close reading, writing, speaking and listening skills, while engaged in the exploration and enjoyment of the nature of literature, the aesthetic function of literary language and the relationship between text and the world and themselves. Students will study 9 texts (over the two years) that encompass a range of exciting literary genres from different cultures and periods - including poetry, novels, drama, essays, graphic novels and non-fiction,

with the goal of developing an understanding of the factors that contribute to the production and reception of literature. In turn, this will encourage the exploration of how viewpoints are shaped by cultural belief systems and how meaning is negotiated by the reader. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB H2 English A Language and Literature (1838y)

*Second year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 Language and Literature*

The second of a two-year sequence, this rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB S2 English A Language and Literature (1839y)

*Second year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 English A Language and Literature*

The second of a two-year sequence, This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB H2 English B (1845y)

*One year – 1 credit*

*Grades 12*

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

This is the second year of the IB English B Higher

Level program. In both years, the course aims to develop students' interactive listening, speaking, reading and writing skills, both formal and informal registers, as well as the ability to assess subtleties of language in a wide variety of forms and styles. The literature of the course reflects the current expectations of the English B Higher Level examination. Students enrolled in this course will be expected to participate in a class service and community project, and take the IB examination at the end of the year.

### AP Literature and Composition (1843y)

One year - 1 credit

Grade 12

*Prerequisite: AP Language and Composition or English 11*

Seniors passionate about literature will discover in this course texts from various genres, periods, and cultures--all sure to challenge their logic, creativity, insight, and technical skills. Designed for students intending to sit for the AP Literature and Composition examination, the course takes seriously its test-preparation purposes. But the general objectives of the course go beyond this short-term goal to enable students independently to analyze how literature works and to write effectively about their findings and to synthesize treatments of specific themes in a variety of works. Students will be expected to take the AP Literature and Composition examination at the end of this course. AP Literature and Composition is open to all seniors who have the support of their grade 11 English teacher (AP Language and Composition or English 11).

## ENGLISH LANGUAGE & LEARNING SUPPORT CLASSES

### The Language Enhanced Program (LE Program) in English:

Courses are designed to meet the language needs of intermediate/high-intermediate English language learners. LE courses, which follow the same curricula as the corresponding regular versions of the courses, emphasize academic language development as a means to making subject content accessible. The LE courses are available to students who have achieved qualifying scores on a variety of Admissions criteria. Because the LE courses mirror the content in the regular versions of the courses, students are able to move easily from the LE program into the regular program in accordance with their learning progress. In Grade 9, students take two LE courses, Social Studies 9 LE and English 9 LE as well as Academic English 9; for students in the Grade 10 LE program, the required courses are English 10 LE and Academic English 10. In Grades 11 and 12 English B is available for eligible students.

### English 9 LE (1201y)

*Also see relevant course description in [English department section](#)*

One year - 1 credit

*Prerequisite: 8th-grade teacher recommendation or qualifying scores on Admissions criteria.*

English 9 LE mirrors as closely as practicable the content covered in English 9 ([see relevant course description in the English Department section](#)) and serves the same preparatory function. The chief distinction between LE courses and their non-LE counterparts is that English reading, writing, speaking and listening proficiency is developed simultaneously alongside knowledge of course content.

### Social Studies 9 LE (4152y)

One year - 1 credit

*Prerequisite: 8th-grade teacher recommendation or qualifying scores on Admissions criteria.*

Social Studies 9LE mirrors as closely as practicable the content covered in Social Studies 9 ([see relevant course description in the Social Studies Department section](#)) and serves the same preparatory function. The chief distinction between LE courses and their non-LE counterparts is that English reading, writing, speaking and listening proficiency is developed simultaneously alongside knowledge of course content.

The remaining credits may be chosen from other departments/subject offerings and include a mathematics course dependent on ability.

### English 10 LE (1301y)

*(Also see relevant course description in [English department section](#))*

One year - 1 credit

Grade 10

*Prerequisite: successful completion of English 9 LE and teacher recommendation or qualifying scores on Admissions criteria.*

English 10 LE mirrors as closely as practicable the content covered in English 10 and serves the same preparatory function. The chief distinction between LE courses and their non-LE counterparts is English reading, writing, speaking and listening proficiency is developed simultaneously with knowledge of course content.

## English Support

### Academic English 9 (2212y and 22121s) Academic English 10 (2213y and 22131s) Academic English 11-12 (2218y and 22181s)

One semester – 0.5 elective credit

One year – 1 elective credit

Grades 9, 10, 11, 12

*Prerequisite: none or as determined by Admissions or the EAL coordinator.*

Academic English is a course designed to support all students with speaking, listening, reading and writing assessments from core content areas. The class operates partially in a tutorial/workshop mode and partially as an academic class with skill development and graded assignments. Students work on core subject assignments; they set goals and make plans to improve their language skills, using these assignments as a vehicle for growth. Additionally, class time will be spent developing specific oral, reading and writing skills that are integral to academic success. Some students may be assigned to the class while others may self-select the course. Students may take this course as often as they wish; an elective credit is granted upon completion.

## Learning Support

### Learning Strategies 9 (2206y and 22061s) Learning Strategies 10 (2207y and 22071s)

One semester – 0.5 elective credit

One year – 1 elective credit

### Learning Strategies 11-12 (2208y and 22081s)

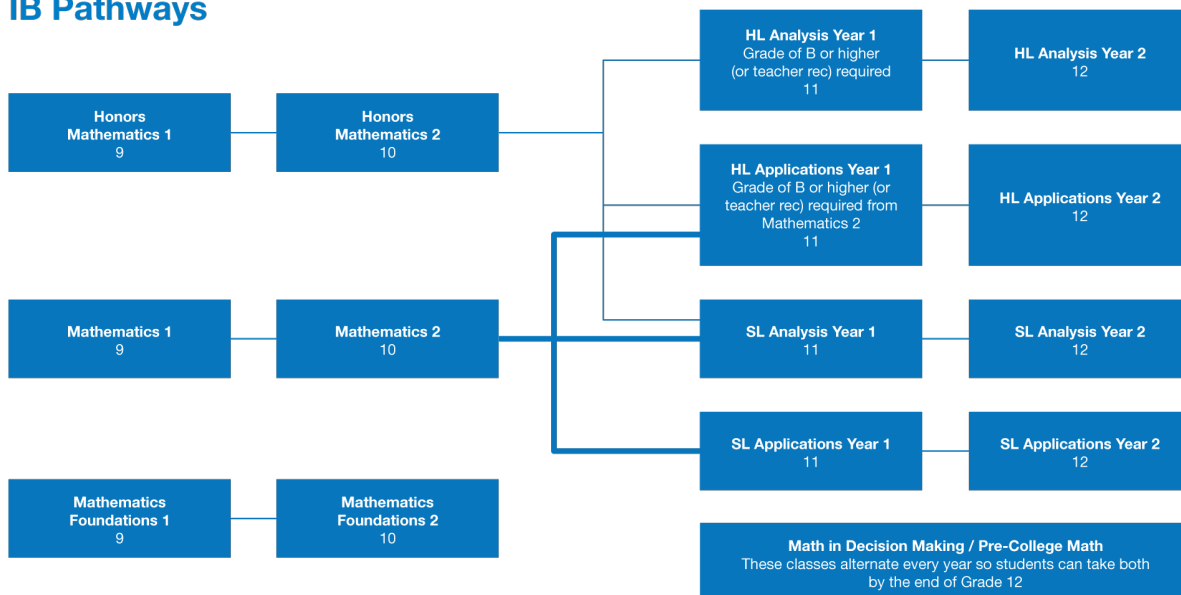
One semester – 0 credits

One year – 0 credits

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

This course is designed to help students understand themselves as learners and grow as self-advocates and independent learners. Students explore their strengths and challenges as a learner, set goals for improvement, and share their plan with their teachers. The Learning Support Specialist works with students individually or in small groups with a focus on organization, time management, reading, writing, math and related study skills. In addition to providing individual skill instruction, this course predominantly supports success in the academic subject areas.

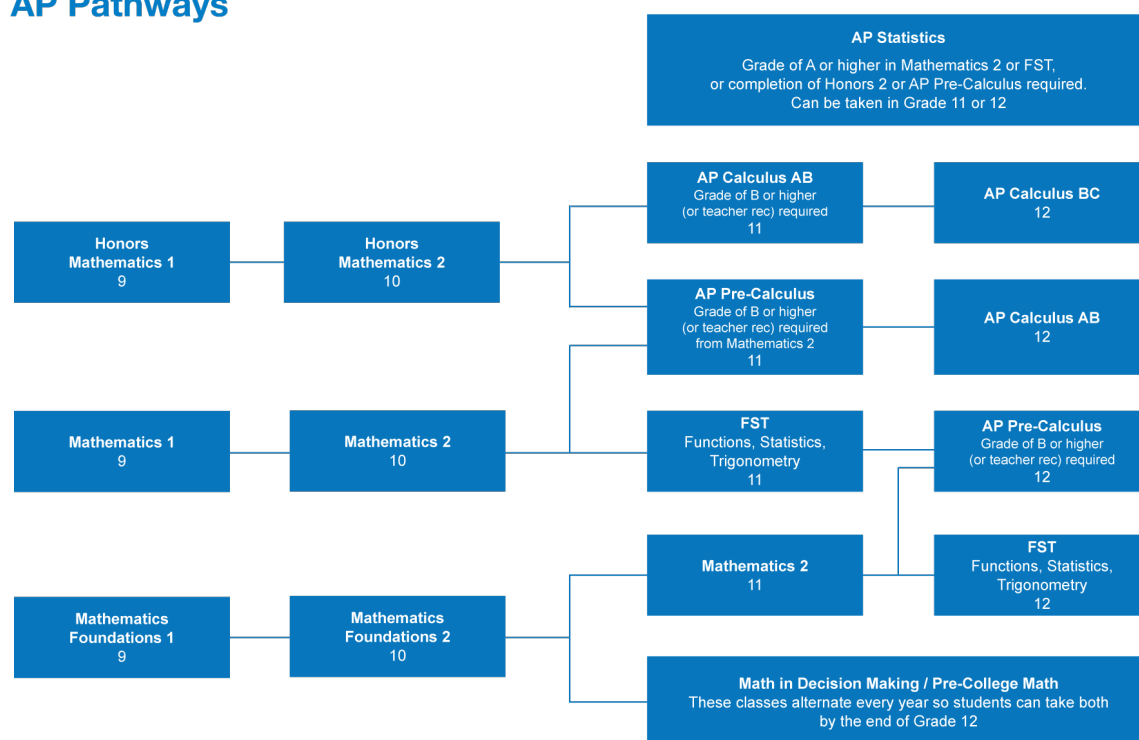
## MATHEMATICS IB Pathways





## MATHEMATICS

### AP Pathways



## MATHEMATICS

### Department Philosophy

The JIS mathematics program will provide every student with developmentally appropriate challenges to allow them to build a deep understanding of mathematical ideas.

*Important note: All courses require a graphing display calculator; the TI-Nspire CX or TI-Nspire CX II is recommended and can be purchased from the JIS Business Office.*

### Grade 9 Courses

#### Mathematics Foundations 1 (5141y)

One year – 1 credit

Grades 9

Prerequisite: Teacher Recommendation

The purpose of this course is to develop the foundations of students' mathematical understandings. Topics in this course include: number sense (factors, negative numbers, and fractions); patterns and algebra; linear functions; measurement (perimeter, area, and volume); coordinate geometry; and statistics and probability. Topics and schedules will be adjusted as necessary to meet the needs of the students as they become apparent throughout the course.

Students who are successful in the Mathematics Foundations pathway in grades 9 and 10 can enter the IB program through SL Applications and Interpretation in grades 11 and 12, or the AP program through AP Precalculus in grade 12.

#### Mathematics 1 (5142y)

One year – 1 credit

Grades 9

Prerequisite: Teacher Recommendation

This course continues the integrated study of algebra and geometry, focusing on the core content to allow more time for consideration and consolidation, before proceeding to more advanced topics. We start with linear functions, systems of linear equations, and coordinate geometry. We then move to quadratic functions, exponents, inequalities, triangles and similarity, probability, and an introduction to descriptive statistics. Investigations and questions involving real-world applications are an integral part of the course.

#### Honors Mathematics 1 (5143y)

One year – 1 credit

Grades 9

Prerequisite: Teacher Recommendation

This course continues the integrated study of algebra and geometry, extending each topic for greater depth

while necessarily proceeding faster. Advanced topics include: linear functions, systems of linear equations and inequalities, quadratic functions, exponential functions and operations on exponents, inequalities, triangles and similarity, two-column proofs, measurement (including interior/exterior angles of a polygon, SA and Volume, and circle theorems including chords and tangent lines), probability, and an introduction to descriptive statistics. Investigations and questions involving real-world applications are an integral part of the course.

and/or AP Calculus AB. The course emphasizes the combination of multiple content standards in single problems, multiple problem-solving skills, finding general solutions, as well as using multiple representations (numeric, algebraic, graphical, and verbal). In addition to extending topics from Honors 1, the course also introduces: logarithmic, polynomial, rational, radical, and trigonometric functions, and focuses on exploring domain and range, and asymptotic and end behaviours. Students will be well prepared to take IB HL Applications and Interpretations, HL Analysis and Approaches, or AP Calculus AB upon completion of this course.

## Grade 10 Courses

### Mathematics Foundations 2 (5144y)

*One year – 1 credit*

*Grades 10*

*Prerequisite: Mathematics Foundations 1 & Mathematics 1*

The Foundations 2 course proceeds at a slower pace than Mathematics 2 and will be tailored to specific gaps in students' foundational understanding. Topics in this course include continuations of those from Foundations 1 such as number sense, measurement, statistics and probability, and newer topics such as functions, linear equations and systems, quadratic functions, and right-triangle trigonometry. Students in Foundations 2 take Math 2, Pre-College Math or Math in Decision-Making, or IB SL Applications Year 1 in the following year.

### Mathematics 2 (5145y)

*One year – 1 credit*

*Grades 10 and 11*

*Prerequisite: Mathematics 1, Honors Mathematics 1 or Foundations 2 with teacher recommendation.*

This course continues the study of the algebraic concepts developed in Mathematics 1 by emphasizing the concept of a function and how functions are transformed numerically, graphically, and algebraically, and also introduces core trigonometric concepts and statistics. Types of functions include: linear, quadratic, exponential, rational, and trigonometric. The course is designed to prepare students for either the two-year IB Standard Level courses (SL Applications and Interpretation or SL Analysis and Approaches) or the AP path: Pre-calculus followed by Calculus AB in years 11- and 12. Students who excel in Math 2 will be able to access IB HL Applications and Interpretation.

### Honors Mathematics 2 (5146y)

*One year – 1 credit*

*Grades 10*

*Prerequisites: Honors Mathematics 1 or Mathematics 1 with teacher recommendation*

This course both continues the development of topics covered in Honors Mathematics 1 and covers new topics that are prerequisites for IB Higher Level

## Grade 11/12 JIS Courses

### Mathematics in Decision Making (5148y)

*This course alternates with Pre-College Math and is offered at the start of every odd School year (2023-24, 2025-26, 2027-2028 etc)*

*One year - 1 credit*

*Grade 11, 12*

*Prerequisite: Mathematics Foundations 2 or Mathematics 2*

This course enables students to broaden their understanding of mathematics as it is applied to life after high school. Units engage students with real-world financial applications while maintaining mathematical rigor. Each of the course's units blends one core application with one relevant math concept: Taxes & Percentages, Banking & Linear Functions, Investing & Exponential Functions. Students will strengthen their mathematical decision-making skills and their use of tools such as spreadsheets.

### Pre-College Math (51481y)

*This course alternates with Mathematics in Decision Making and is offered at the start of every even school year (2024-25, 2026-27, 2028-2029 etc)*

*One year - 1 credit*

*Grade 11, 12*

*Prerequisite: Mathematics Foundations 2 or Mathematics 2*

This course enables students to broaden their understanding of mathematics as it is applied to life after high school. Units engage students with real-world financial applications while maintaining mathematical rigor. Each of the course's units blends one core application with one relevant math concept: Credit & Modeling, Paying for College & Statistics, Insurance & Probability. Students will strengthen their applied mathematical skills and tools such as spreadsheets.

**FST (Functions, Statistics, Trigonometry) (51482y)***One year – 1 credit**Grade 11, 12**Prerequisite: Mathematics 2*

This course is designed to integrate functions, statistics, and trigonometry and apply the algebra and geometry that students have studied in prior years. Supplementing the material presented in Math 2, FST completes the study of the following functions: linear, quadratic, exponential, logarithmic, and trigonometric. Additionally, the course develops some material from finite mathematics, including an introduction to probability and statistics with the intent to significantly enhance a student's ability to undertake the study of advanced statistical applications. This course contains some of the topics of traditional precalculus courses, and throughout the course, the modelling of real phenomena is emphasized. This course will help students prepare for AP Precalculus and/or AP Statistics in grade 12.

**Grade 11/12 AP Courses****AP Pre-Calculus (53201y)***One year – 1 credit**Grades 11, 12**Prerequisites: Mathematics 2 or FST (B or higher required (or teacher recommendation)) or Honors Mathematics 2*

This course prepares students who have taken Mathematics 2 or Honors Mathematics 2 to take AP Calculus AB in year 12. It is also designed to function as a final high school math course in preparation for studying college-level calculus in university. In this course, students study a broad spectrum of function types, including polynomials, logarithmic, inverse trigonometric, rational, and piecewise functions. In addition, the course covers additional topics including complex numbers, polar and parametric functions, conic sections, vectors and matrices. All students are required to sit the external AP Pre-Calculus examination in May.

**AP Calculus AB (5410y)***One year – 1 credit**Grades 11, 12**Prerequisites: Honors Mathematics 2 (with a B or more required (or teacher recommendation)) or AP Pre-Calculus*

NEW STUDENTS to JIS in G11 ONLY: New students wishing to take Calculus AB are required to have completed a Pre-Calculus level course that includes the study of trigonometric functions and equations, as well as logarithmic and exponential functions.

This course introduces students to the fundamental ideas and application of differential and integral calculus, modelled after the first semester of US college-level calculus. Topics studied in the first semester include: continuity and limits, derivatives of polynomial, trigonometric, exponential and logarithmic functions, including applications of

derivatives to optimization and related rates. The second semester focuses on integral calculus including applications to area, volume and differential equations. All students are required to sit the external AP Calculus AB examination in May.

**AP Calculus BC (5420y)***One year – 1 credit**Grade 12**Prerequisite: AP Calculus AB*

This course will begin by covering all the material that is prerequisite to Calculus BC but not covered in Calculus AB. Following that is the additional material of the BC syllabus, the second semester of US college-level calculus, which includes extensions such as: areas bounded by polar coordinates, vector functions, tangents to parametric curves, repeated integration by parts, improper integrals, path length, and sequences and series (convergence, Power, and Taylor series). Students are required to sit the external AP Calculus BC exam in May.

**AP Statistics (5850y)***One year – 1 credit**Grades 11, 12**Prerequisites: Math 2 or FST (a grade of A or higher required (or teacher recommendation)), or AP Precalculus*

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics include exploring and analyzing uni- and bi-variate data; sampling methods and the design of experiments; probability and simulation; probability distributions (including the binomial, geometric, normal, and Student's t distributions); and statistical inference (confidence intervals and significance tests). Students will use computers and graphing calculators extensively. All students are required to sit the external AP Statistics examination in May.

Students have an option to graduate in Statistics with a WE certification from the College Board: where they work on an individual project that focuses on using the statistical procedures learned in class to benefit the community.

**Grade 11/12 IB Courses**

*The IB Mathematics program offers two different streams: (1) Applications & Interpretation, and (2) Analysis & Approaches. Both courses are offered at both HL and SL, for four total options.*

*Applications & Interpretation is designed for students who enjoy applying mathematics in a practical context to describe the world, thus has greater emphasis on the statistical tools used in a variety of natural and human sciences. Analysis & Approaches is designed for students who enjoy mathematics itself and proving how and why mathematics works as it does.*

### IB S1 Applications and Interpretation (51441y)

One Year – 1 credit

Grade 11

*Prerequisites: Mathematics Foundations 2 or Mathematics 2 or Honors Mathematics 2*

Applications and interpretation S1 is the first year of a two-year program aimed at students who enjoy applying mathematics in a practical context. Topics that are included through the 2-year course are Number and Algebra, Functions, Geometry and Trigonometry, Calculus, and Statistics and Probability. There is a strong focus on Statistics and Probability. A calculator is allowed throughout all of the curriculum and exams. This subject is aimed at students who will go on to study subjects such as **social sciences, natural sciences, statistics, business, some economics, psychology, and design**. This course is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models.

### IB S2 Applications and Interpretation (51442y)

One Year – 1 credit

Grade 12

*Prerequisites: IB S1 Applications and Interpretation*

Applications and interpretation S2 is the second year of a two-year program aimed at students who enjoy applying mathematics in a practical context. Topics that are included through the 2-year course are Number and Algebra, Functions, Geometry and Trigonometry, Calculus, and Statistics and Probability. There is a strong focus on Statistics and Probability. A calculator is allowed throughout all of the curriculum and exams. This subject is aimed at students who will go on to study subjects such as **social sciences, natural sciences, statistics, business, some economics, psychology, and design**. This course is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students are required to sit the external IB examination in May.

### IB H1 Applications and Interpretation (51451y)

One Year – 1 credit

Grade 11

*Prerequisites: Mathematics 2 (a grade of B or higher required (or teacher recommendation)) or Honors Mathematics 2*

Applications and Interpretation H1 is the first year of a two-year program aimed at students who enjoy applying mathematics in a practical context. Topics that are included through the 2-year course are Number and Algebra, Functions, Geometry and Trigonometry, Calculus, and Statistics and

Probability. There is a strong focus on Statistics and Probability. A calculator is allowed throughout all of the curriculum and exams. This subject is aimed at students who will go on to study subjects such as social sciences, natural sciences, statistics, business, economics, psychology, and design. In addition, many universities are accepting HL Applications for their engineering and physical science programs. This course is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. The HL curriculum is an extension of the SL Curriculum through increased rigor, pace and content. Extra topics in HL include Graph theory for computer programming, Hypothesis testing for scientific research, and using Matrices as a tool to model and solve problems. In this course the students are assumed to be independent and motivated learners who desire to be consistently challenged and extended.

### IB H2 Applications and Interpretation (51452y)

One Year – 1 credit

Grade 12

*Prerequisites: IB H1 Applications and Interpretation*

Applications and Interpretation H2 is the second year of a two-year program aimed at students who enjoy applying mathematics in a practical context. Topics that are included through the 2-year course are Number and Algebra, Functions, Geometry and Trigonometry, Calculus, and Statistics and Probability. There is a strong focus on Statistics and Probability. A calculator is allowed throughout all of the curriculum and exams. This subject is aimed at students who will go on to study subjects such as **social sciences, natural sciences, statistics, business, some economics, psychology, and design**. In addition, many universities are accepting HL Applications for their engineering and physical science programs. This course is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. The HL curriculum is an extension of the SL Curriculum through increased rigor, pace and content. Extra topics in HL include Graph theory for computer programming, Hypothesis testing for scientific research, and using Matrices as a tool to model and solve problems. In this course, the students are assumed to be independent and motivated learners who desire to be consistently challenged and extended. Students are required to sit the external IB examination in May.

### IB S1 Analysis and Approaches (51461y)

One Year – 1 credit

Grade 11

*Prerequisites: Mathematics 2 or Honors Mathematics 2*

Analysis and Approaches S1 is the first year of a



two-year program and is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. Topics that are included through the 2-year course are Number and Algebra, Functions, Geometry and Trigonometry, Statistics and Probability, and much more emphasis on Calculus than in the applications curriculum. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as **mathematics itself, engineering, physical sciences, or economics**. This course is appropriate for students that are fascinated by exploring real and abstract applications of these topics, with and without the use of technology.

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### IB S2 Analysis and Approaches (51463y)

*One Year – 1 credit*

*Grade 12*

*Prerequisites: IB S1 Analysis and Approaches*

Analysis and Approaches S1 is the second year of a two-year program and is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. Topics that are included through the 2-year course are Number and Algebra, Functions, Geometry and Trigonometry, Statistics and Probability, and much more emphasis on Calculus than in the applications curriculum. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as **mathematics itself, engineering, physical sciences, or economics**. This course is appropriate for students that are fascinated by exploring real and abstract applications of these topics, with and without the use of technology. Students are required to sit the external IB examination in May.

### IB H1 Analysis and Approaches (51462y)

*One Year – 1 credit*

*Grade 11*

*Prerequisite: Honors Mathematics 2 (B or higher is required (or teacher recommendation))*

Analysis and Approaches H1 is the first year of a two-year program and is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking.

Topics that are included through the 2-year course are Number and Algebra, Functions, Geometry and Trigonometry, Statistics and Probability, and much more emphasis on Calculus than in the applications curriculum. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as **mathematics itself, engineering, physical sciences, or economics**. This course is appropriate for students that are fascinated by exploring real and abstract applications of these topics, with and without the use of technology. The HL curriculum is an extension of the SL Curriculum through increased rigour, pace and content. Extra topics in HL include complex numbers, polynomials, vectors and much more calculus than SL. In this course the students are assumed to be independent and motivated learners who desire to be consistently challenged and extended.

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### IB H2 Analysis and Approaches (51464y)

*One Year – 1 credit*

*Grade 12*

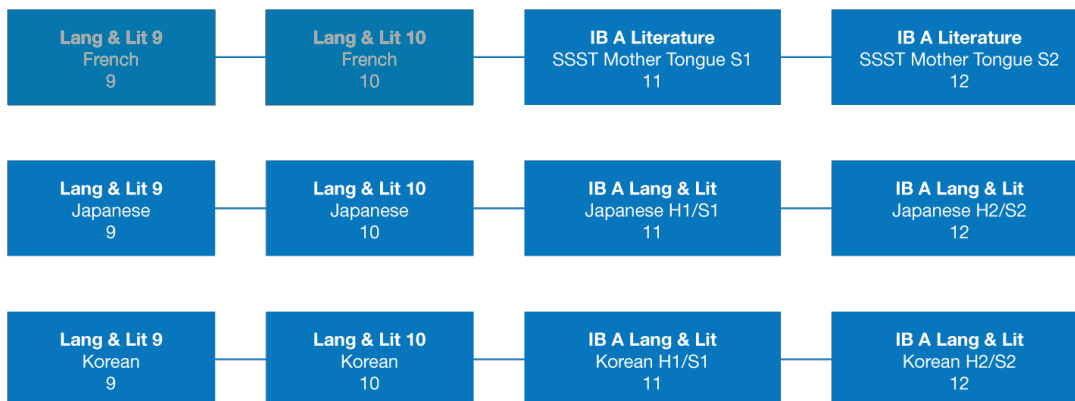
*Prerequisite: IB H1 Analysis and Approaches*

Analysis and Approaches H2 is the second year of a two-year program and is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. Topics that are included through the 2-year course are: Number and Algebra, Functions, Geometry and Trigonometry, Statistics and Probability, and much more emphasis on Calculus than in the applications curriculum. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences, or economics. This course is appropriate for students that are fascinated by exploring real and abstract applications of these topics, with and without the use of technology. The HL curriculum is an extension of the SL Curriculum through increased rigour, pace and content. Extra topics in HL include complex numbers, polynomials, vectors and much more calculus than SL. In this course, the students are assumed to be independent and motivated learners who desire to be consistently challenged and extended. Students are required to sit the external IB examination in May.

# MODERN LANGUAGES

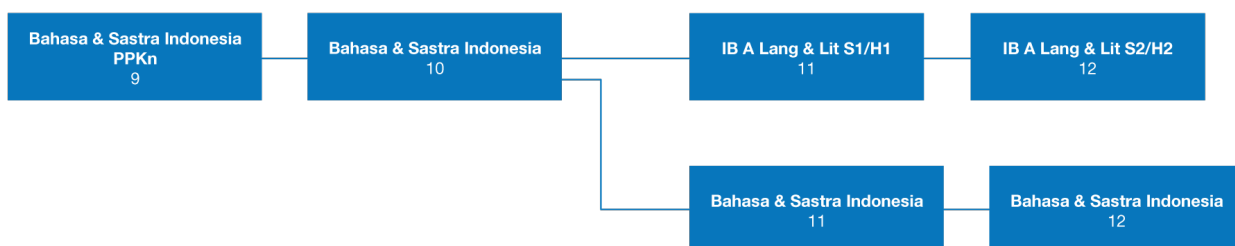
## Language A

French • Japanese • Korean • World Language (Mother Tongue)



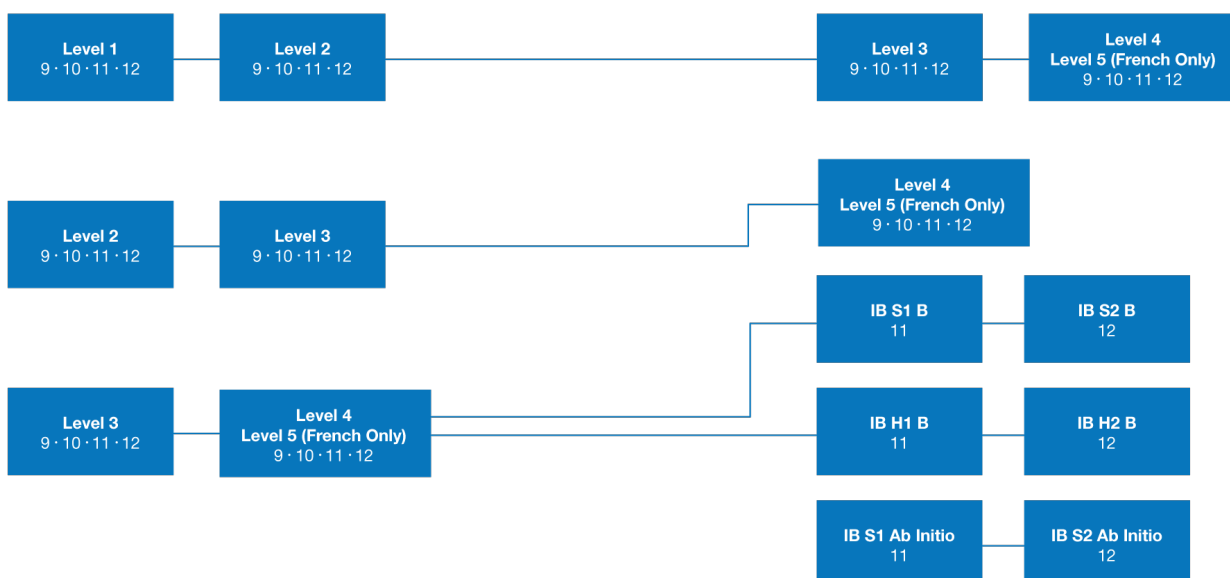
## Language A

Required for Indonesian Passport Holders



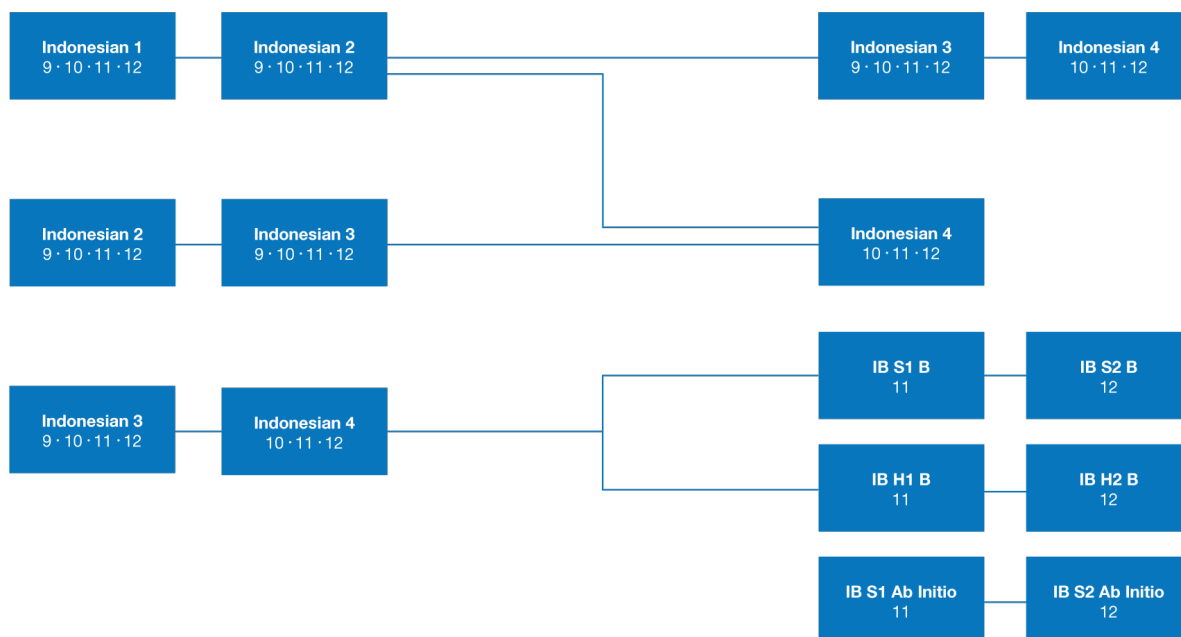
## Language B

French, Mandarin



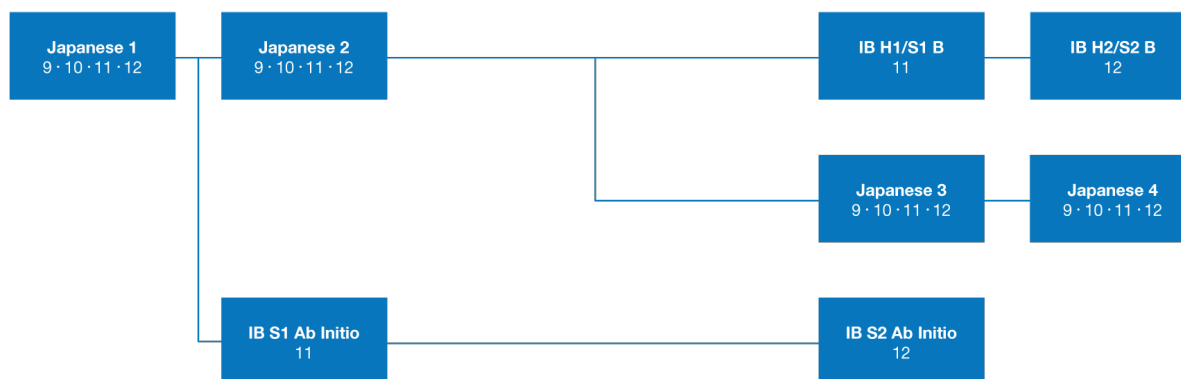
## Language B

### Indonesian



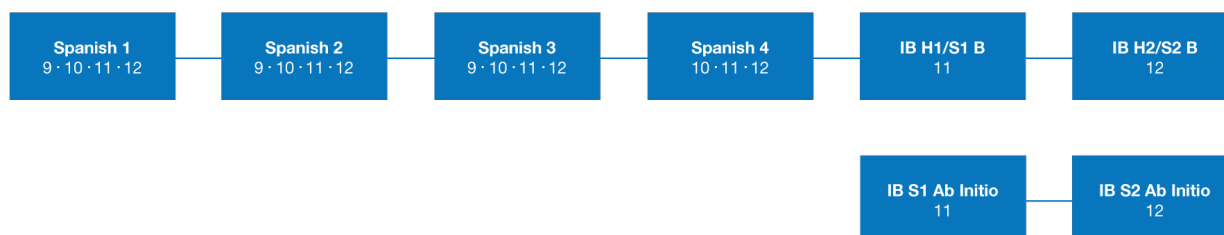
## Language B

### Japanese



## Language B

### Spanish



# MODERN LANGUAGES

## Department Philosophy

The JIS Modern Languages Department offers a broad and differentiated program designed to meet the diverse linguistic needs of our intercultural student body, accommodating both native speakers (Language A) and learners of new languages (Language B). The Language B curriculum is structured to foster language acquisition through the development of the four fundamental skills: listening comprehension, oral communication, reading comprehension, and written expression. Additionally, students gain valuable insights into the cultural and societal contexts in which these languages are used. For native speakers (Language A), the program provides opportunities for in-depth study of both language and literature. Our department also offers externally assessed International Baccalaureate (IB) courses at both Group 1 (for native language study) and Group 2 (for foreign language acquisition) levels. Placement for students new to JIS in language courses beyond the first year is determined by a language teacher's recommendation in conjunction with the results of a placement evaluation.

## Pre-IB Mother Tongue, IB Group 1 Courses & Compulsory Courses for Indonesian Passport Holders

*Indonesian, Japanese, Korean, Mother Tongue, French*

### Indonesian

**Grade 9 and 10 students who are Indonesian passport holders must take a Bahasa, Sastra, and PPKn course listed below.**

#### **Bahasa, Sastra dan Pendidikan Pancasila dan Kewarganegaraan (PPKn) 9 (33301y)**

*One year – 1 credit  
Grade 9*

This course is mandatory for Indonesian passport-holders. It comprises two component parts: Bahasa dan Sastra and Pendidikan Pancasila dan Kewarganegaraan (PPKn) 9, each of which is described below.

#### **Pendidikan Pancasila dan Kewarganegaraan (PPKn) 9**

Students will learn about topics pertaining to Pancasila, the state philosophy, and the knowledge about the Indonesian government system. Students will also learn about human rights and citizenship issues in line with the Indonesian national curriculum.

#### **Bahasa dan Sastra 9**

*Prerequisites: a satisfactory standard of Indonesian Language in the proficiency level of native/near native speaker, as determined by the teacher.*

This course is mandatory for Indonesian passport-holders and is to be taken as a companion course to Bahasa and Sastra 9. It is intended to meet the needs of students who are native or near-native Indonesian speakers. Students who are in Grade 9 and need to prepare for the Indonesian A Language and Literature

Standard or Higher level courses are recommended to take this course after Middle School classes. Emphasis is placed on oral communication, reading, writing, and analysis of texts representing Indonesian literature, society, and culture.

#### **Bahasa dan Sastra 10 (33308y)**

*Prerequisite: completion of Indonesian language, Literature and Composition 1*

This course is intended to meet the needs of students as the second year of the program in preparation for the Indonesian A Language and Literature Standard or Higher level courses. Emphasis is placed in oral communication, reading, writing and analysis of texts and media representing Indonesian literature, society, and culture.

#### **Bahasa dan Sastra Indonesia 11 (33303y)**

*One year – 1 credit  
Grade 11*

*Prerequisite: a satisfactory standard of Indonesian Language in the proficiency level of native/near native speaker, as determined by the teacher.*

This course is intended to meet the needs of students who are native or near-native Indonesian speakers. This course places emphasis on oral communication, reading, writing, and analysis of texts representing Indonesian literature, society, and culture. Indonesian students who are in Grade 11 and choose not to take an IB Indonesian course will be required to take this course. There is no language enhanced support offered in this course so non-IB Indonesian students whose Indonesian is less strong should select IB B Indonesian B Standard Level to fulfill their language requirement.



**Bahasa dan Sastra 12 (33304y)***One year – 1 credit**Grade 12**Prerequisite: a satisfactory standard of Indonesian Language in the proficiency level of native/near native speaker, as determined by the teacher.*

This course is required for Indonesian passport holders who are in Grade 12 and choose not to take an IB Indonesian course. This course places emphasis on oral communication, reading, writing, and analysis of texts representing Indonesian literature, society, and culture.

**IB S1 Indonesian A Language and Literature (3869y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of Bahasa and Sastra Indonesia 10 or a satisfactory standard of native or near-native competence as determined by the teacher*

This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

**IB S2 Indonesian A Language and Literature (38691y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB S1 Indonesian A Language and Literature or a satisfactory standard of native or near-native competence as determined by the teacher*

This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

**IB H1 Indonesian A Language and Literature (3868y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of Indonesian Language, Literature and Civics 10 or a satisfactory standard of native or near-native competence as determined by the teacher*

This rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

**IB H2 Indonesian A Language and Literature (38761y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB H1 Indonesian A Language and Literature or a satisfactory standard of native or near-native competence as determined by the teacher*

This rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

*\*Go to page 36 to see Indonesian courses for non-native speakers.*

## Japanese

### Japanese Language and Literature 9 (3422y)

One year – 1 credit

Grade 9

*Prerequisite: Native Japanese speaker or equivalent.*

In this course, students focus on the genres of poetry, short story, novel. They study a variety of composition skills, writing both formally and informally. Emphasis is placed upon the growth of reading, writing, and speaking with an understanding of the conventions of various text types and media. An independent reading program endeavors to strengthen students' reading through goal setting, reflection, and conferencing.

### Japanese Language and Literature 10 (3423y)

One year – 1 credit

Grade 10

*Prerequisite: Native Japanese speaker or equivalent.*

This Language and Literature course is open to Grade 10, students intending to take IB Japanese A Language and Literature SL/HL program. In this course students focus on the genres of poetry, drama, novel, and nonfiction. They study a variety of composition skills, writing both formally and informally. Emphasis is placed upon the growth of reading, writing, and speaking with an understanding of the conventions of various text types and media. An independent reading program endeavors to strengthen students' reading through goal setting, reflection, and conferencing.

### IB S1 Japanese A Language and Literature (3893y)

One year – 1 credit

Grade 11

*Prerequisite: Native Japanese speaker or equivalent.*

This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms, and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB S2 Japanese A Language and Literature (3894y)

One year – 1 credit

Grade 12

*Prerequisite: successful completion of IB S1*

*Japanese A Language and Literature or a satisfactory standard of native*

This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms, and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB H1 Japanese A Language and Literature (38984y)

One year – 1 credit

Grade 11

*Prerequisite: Native Japanese speaker or equivalent.*

This rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB H2 Japanese A Language and Literature (38985y)

One year – 1 credit

Grade 12

*Prerequisite: successful completion of IB H1*

*Japanese A Language and Literature or a satisfactory standard of native*

This rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6

in total over the two years) from a variety of media, places, forms, and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms, and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

## Korean

### Korean Language and Literature 9 (39001y)

*One year – 1 credit*

*Grade 9*

*Prerequisite: Native Korean speaker or equivalent.*

In this course, students focus on the genres of poetry, short story, novel. They study a variety of composition skills, writing both formally and informally. Emphasis is placed upon the growth of reading, writing, and speaking with an understanding of the conventions of various text types and media. An independent reading program endeavors to strengthen students' reading through goal setting, reflection, and conferencing.

### Korean Language and Literature 10 (39002y)

*One year – 1 credit*

*Grade 10*

*Prerequisite: Native Korean speaker or equivalent.*

This Language and Literature course is open to Grade 10, students intending to take IB Korean A Language and Literature SL/HL program. In this course students focus on the genres of poetry, drama, novel, and nonfiction. They study a variety of composition skills, writing both formally and informally. Emphasis is placed upon the growth of reading, writing, and speaking with an understanding of the conventions of various text types and media. An independent reading program endeavors to strengthen students' reading through goal setting, reflection, and conferencing.

### IB S1 Korean A Language and Literature (39021y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Native Korean speaker or equivalent.*

This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and

is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB S2 Korean A Language and Literature (39022y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: successful completion of IB S1 Korean A Language and Literature or a satisfactory standard of native.*

This course is designed for students who appreciate the complexities of both literary and non-literary texts. Over the two years, students study a wide range of literary and/or non-literary texts (4 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

### IB H1 Korean A Language and Literature (39031y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Native Korean speaker or equivalent.*

This rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

## IB H2 Korean A Language and Literature (39032y)

One year – 1 credit

Grade 12

*Prerequisite: successful completion of IB H1 Korean A Language and Literature or a satisfactory standard of native.*

This rich and challenging course is designed for students who appreciate the complexities of both literary and non-literary texts and are comfortable analysing both. Over the two years, students study a wide range of literary and/or non-literary texts (6 in total over the two years) from a variety of media, places, forms and periods. They will also investigate the nature of language itself and the ways it shapes and is influenced by identity and culture, as well as the world. Throughout the course, students will explore the various ways in which language choices, text types and literary forms and contextual elements all affect meaning. The course is meant to develop sensitivity to the foundational nature, and persuasive influence of language in the world at large. The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

## IB Korean B SL/HL (S1 39023 or H1 39033)

One year – 1 credit

Grade 11

*Prerequisites: Previous study in Korean or language exposure is highly recommended as this is not an Ab initio class. Please do consult with the Modern Languages department for further advice.*

IB Korean B SL/HL is designed for students who have studied Korean in Grades 9 and/or 10 at an International school but have not attended Korean local schools or Korean international schools abroad up to Grade 10. This language acquisition course aims to develop students' proficiency in Korean while fostering an in-depth understanding of Korean culture and society. The course will focus on enhancing students' reading, writing, speaking, and listening skills, emphasizing real-world communication and intercultural competence. This course is also very suitable for non-Korean students who have a Korean Language background of at least four years of study.

## Mother Tongue

### French Language and Literature 9 (31051y)

*(not running on school year 2025-26)*

One year – 1 credit

Grade 9

*Prerequisite: proficiency level of a native or near native French speaker, as determined by the teacher.*

This language and literature 9 course prepares Grade 9 students for the French Language and Literature 10 course. Through the French Literature, the aim is to consolidate the French fundamentals in Grammar,

Conjugation and Spelling in Writing but also Orally and to learn new concepts in regards to the Literary analysis. It also trains Grade 10 students for the IB French A : French A Literature (SL).

This course might be combined with French Language and Literature 10.

### French Language and Literature 10 (31101y)

*(not running on school year 2025-26)*

One year – 1 credit

Grade 9

*Prerequisite: proficiency level of a native or near native French speaker, as determined by the teacher.*

This language and literature 10 course is open to Grade 10 students intending to take French A Literature SL/Self-taught or IB French B HL as part of the International Baccalaureate Diploma Programme. The course offers a wide panorama of the French Literature, in 3 main genres - Novels / Drama / Poetry - since the 16th century and enhance the students' Writing skills for argumentative essay and literary commentary.

This course might be combined with French Language and Literature 9.

### World Languages: Language and Literature Self-Taught 9 (3701y)

One year – 1 credit

Grade 9

*Prerequisite: proficiency level of a native or near native world Languages speaker, as determined by the teacher.*

This school-supported self-taught language and literature course prepares Grade 9 students for the IB self taught mother tongue course in Grades 11 and Grade 12 as well as other language proficiency tests. Through the use of literature, the aim is to consolidate mother tongue language skills and appreciation of appropriate target language culture. Students will self study during class time with the supervision of the class coordinator based on the lesson plans. However, it is a request that every student will have a native tutor to go through the course plans and get the language support they need. Please note that tutoring fees are borne by the parents and high quality online tutors are a suitable option.

*Please consult with the Head of Modern Languages before choosing this course.*

This course might be combined with World Languages: Language and Literature Self-Taught 10.

### World Languages: Language and Literature Self-Taught 10 (3702y)

One year – 1 credit

Grade 10

*Prerequisite: proficiency level of a native or near native world/ Languages speaker, as determined by the teacher.*



This school supported self-taught language and literature course prepares Grade 10 students for the IB self taught mother tongue course in Grades 11 and Grade 12 as well as other language proficiency tests. Through the use of literature, the aim is to consolidate mother tongue language skills and appreciation of appropriate culture. Students will self study during class time with the supervision of the class coordinator based on the lesson plans. However, it is a request that every student will have a native tutor to go through the course plans and get the language support they need. Please note that tutoring fees are borne by the parents and high quality online tutors are a suitable option.

*Please consult with the Head of Modern Languages before choosing this course.*

This course might be combined with World Languages: Language and Literature Self-Taught 9.

### Introduction to Self-taught Academic Dutch (Self Taught programme)

*Two years – 2 credits*

*Grade 11 and 12*

*Prerequisite: Only students who have pre-approval from their counselors may enroll*

This course must have an external tutor. This course will be marked and assessed internally at JIS. It is not an IB or AP level course.

This school-supported self-taught language course is designed for students with little or no prior experience in learning Dutch. It is aimed at students who intend to move to the Netherlands after graduating from JIS and would like to build up a working knowledge of the language. The main focus of the course is to develop listening, speaking, reading and writing skills, and a basic awareness of the culture.

Students will self-study during class time with the supervision of the class coordinator based on the lesson plans. However, it is a requirement that every student will have a native tutor to go through the course plans and get the language support they need. Please note that tutoring fees are borne by the parents and high quality online tutors are a suitable option.

### IB S1 SSST Mother Tongue (3920y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: a native speaker with proficiency in the target language as evaluated by the Mother Tongue coordinator*

- Self-taught languages are limited by the IB to a maximum of 5 candidates in any given language – students will be accommodated on a first come first served basis
- Only students enrolled in the Mother Tongue program will be permitted to take the IB Language

A Self-Taught examinations.

- This course must have an external tutor.

This two-year course is aimed at those students who enjoy reading literature and wish to focus on the development of their mother tongue.

Through different perspectives of culture, context and various concepts, students will refine their critical thinking, close reading, writing, speaking and listening skills, while engaged in the exploration and enjoyment of the nature of literature, the aesthetic function of literary language and the relationship between text and the world and themselves. Students will study 9 texts (over the two years) that encompass a range of exciting literary genres from different cultures and periods - including poetry, fiction, non-fiction and drama, with the goal of developing an understanding of the factors that contribute to the production and reception of literature. In turn, this will encourage the exploration of how viewpoints are shaped by cultural belief systems and how meaning is negotiated by the reader in relation to global issues

The course is open to diploma, as well as non-diploma candidates who may elect to earn an IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2. Diploma candidates will be eligible for the IB bilingual diploma upon successful completion of the course

### IB S2 SSST Mother Tongue (3921y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: successful completion of the 1st year of the course.*

- Self taught languages are limited by the IB to a maximum of 5 candidates in any given language – students will be accommodated on a first come first served basis
- Only students enrolled in the Mother Tongue program will be permitted to take the IB Language A Self-Taught examinations.
- This course must have an external tutor.

This is the second year of a two-year course aimed at those students who enjoy reading literature.

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Through different perspectives of culture and context, students will refine their critical thinking, close reading, writing, speaking and listening skills, while engaged in the exploration and enjoyment of the nature of literature, the aesthetic function of literary language and the relationship between text and the world and themselves. Students will study 9 texts (over the two years) that encompass a range of exciting literary genres from different cultures and periods - including poetry, novels, drama, essays, graphic novels and non-fiction, with the goal of developing an understanding of the factors that contribute to the production and reception of literature. In turn, this will encourage the exploration

of how viewpoints are shaped by cultural belief systems and how meaning is negotiated by the reader. The course is open to diploma, as well as non-diploma candidates who may elect to earn an

IB certificate. Students enrolled in this course will be expected to take the IB examination at the end of Year 2.

## Pre-IB & IB Group 2 Language Acquisition Courses

*French, Indonesian, Japanese, Mandarin, Spanish*

### French

#### French 1 (3105y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: None*

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

#### French 2 (3110y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: successful completion of MS Beginning French or MS Intermediate French*

This course is a review and a continuation of French 1 and builds upon foundational skills, enabling students to communicate with greater confidence and accuracy in real-life situations. Students will expand their vocabulary, grammar knowledge, and pronunciation skills, while improving their listening, speaking, reading, and writing abilities. Class activities include interactive dialogues, listening exercises, short writing assignments, role-plays, and cultural projects to make learning engaging and meaningful. This course prepares students for French III, where they will further develop their communication skills and deepen their understanding of Francophone cultures.

#### French 3 (3120y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: completion of High School French 2 or Middle School Advanced French*

This course focuses on refining speaking, listening, reading, and writing skills, allowing students to communicate with greater fluency, accuracy, and confidence. Students will expand their vocabulary and grammar knowledge, enabling them to engage in more complex conversations, express detailed

opinions, and understand a wider variety of written and spoken French. They will also explore authentic French-language materials, including articles, short stories, songs, and videos, to deepen their cultural awareness. Class activities will include conversational practice, debates, role-plays, visual writing, listening comprehension exercises, and cultural projects. This course prepares students for French 4 and further language study at an advanced level.

#### French 4 (3125y)

*One year – 1 credit*

*Grade 9, 10, 11, 12*

*Prerequisite: successful completion of French 3 or French 2 with teacher recommendation*

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

#### French 5 (31251y)

*One year – 1 credit*

*Grade 10, 11, 12*

*Prerequisite: successful completion of French 4*

This course is highly recommended for students who are keen on studying French at a more advanced level. The goals are to increase vocabulary, develop oral fluency by participating in a range of real-life communication situations, consolidate grammatical structures, and write a wide variety of text types. The course is also designed to further students' familiarity with topics related to the cultures of French-speaking countries. Finally, Students will be given the opportunity to study some literature in the target language.

#### IB S1 French Ab Initio (38391y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: none*

This is the first year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior French learning experience. The main focus of the course is to develop listening, speaking, reading, and writing skills, a basic awareness of the culture and also to prepare students for the IB French Ab Initio exam.

**IB S2 French Ab Initio (38392y)***One year – 1 credit**Grade 12**Prerequisite: IB S1 French Ab Initio*

This is the second year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior French learning experience. The main focus of the course is to develop listening, speaking, reading, and writing skills and some awareness of French-speaking cultures, as well as to prepare students for the IB French Ab Initio exam.

**IB S1 French B (3839y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of French 4 or French 3.*

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

**IB S2 French B (3841y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB S1 French B*

This is the second year of the two-year IB Standard Level French course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed through the study and use of a range of written and spoken material. Students will be taught how to recognize the communicative purpose of the texts and how to respond appropriately to them. They should show awareness of and sensitivity to some elements of French-speaking cultures. The course is a preparation for the IB French B Standard Level exam.

**IB H1 French B (3845y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of French 4.*

The course is the first year of the two-year IB Higher Level French course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written, spoken, literary, and non-literary material. Students will be taught how to recognize and analyze the communicative purpose of the texts and how to respond appropriately. They should also show sensitivity to both French-speaking cultures and literature.

**IB H2 French B (3850y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB H1 French B*

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

**IB FRENCH A 9/10***One year – 1 credit**Grade 9/10**Prerequisite: Fluent speaker of French*

The main focus of this course is literacy, analytical, and communication skills. Students will develop these by studying and using a range of written, spoken, literary, and non-literary material from a variety of contexts. Students will be taught how to recognize and analyze the communicative purpose of texts and how to respond appropriately to them. They will also develop sensitivity to different perspectives in French-speaking cultures and literature.

**Indonesian Second Language****Indonesian Studies (3335s)***One Semester - 0.5 credit**Grades 9, 10**Prerequisite: None*

A semester of Indonesian Studies in the High School is required for graduation and this course is one way of satisfying the requirement. The students study about Bahasa Indonesia, Indonesia's Culture and Indonesia's History. This includes an introduction to Bahasa Indonesia and to Indonesian geography, history, culture, and customs. Indonesian courses taken in Middle School do not receive High School credit, and they do not fulfil this graduation requirement. Students with more than a basic level of Indonesian are encouraged to take an appropriate level of Indonesian Language, such as Indonesian 2 or 3, or one of our other Indonesian Studies options in order to fulfill this graduation requirement.

**Indonesian Studies 11/12***One Semester - 0.5 credit**Grade 11, 12**Prerequisite: None*

This or some other Indonesian Studies or Indonesian Language course is required for graduation. The students study about Indonesia. This includes an

introduction to Bahasa Indonesia and to Indonesian geography, history, culture, and customs. Indonesian courses taken in Middle School do not receive High School credit, and do not fulfill this graduation requirement. Students with more than a basic level of Indonesian are encouraged to take an appropriate level of Indonesian Language, such as Indonesian 2 or 3, or one of our other Indonesian Studies options, to fulfil this graduation requirement.

### Indonesian 1 (3305y)

*One year – 1 credit*  
*Grades 9, 10, 11, 12*  
*Prerequisite: none*

This is a more demanding course linguistically than Indonesian Studies and should be considered by those students who have a serious interest in the study of the Indonesian Language. This course includes practice in listening comprehension, speaking, reading, and writing skills. By the end of the year, students are to master basic grammatical structures, write short compositions, and be able to express themselves orally at a mid-novice level of proficiency. The program also encourages cultural awareness through supplemental materials.

### Indonesian 2 (3310y)

*One year – 1 credit*  
*Grades 9, 10, 11, 12*  
*Prerequisite: High School Indonesian I, Middle School Beginning Indonesian, or Middle School Intermediate Indonesian*

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

### Indonesian 3 (3311y)

*One year – 1 credit*  
*Grades 9, 10, 11, 12*  
*Prerequisite: successful completion of High School Indonesian 2 or Middle School Advanced Indonesian*

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

### Indonesian 4 (3312y)

*One year – 1 credit*  
*Grade 10*  
*Prerequisite: successful completion of Indonesian 3 or Indonesian 2 with teacher recommendation.*

This course is highly recommended for students who want to take IB Higher Level B course the following years. The goals are to increase vocabulary, develop

oral fluency, consolidate grammatical structures, and introduce formal essay writing. The course is also designed to familiarize students with topics related to the culture of Indonesia.

### IB S1 Indonesian Ab Initio (38781y)

*One year – 1 credit*  
*Grade 11*  
*Prerequisite: none*

This is the first year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior Indonesian learning experience. The main focus of the course is to develop listening, speaking, reading and writing skills, a basic awareness of the culture and also to prepare students for the IB Indonesian Ab Initio exam.

**Notes:** The IB exam for this course will be held in November Grade 12.

### IB S2 Indonesian Ab Initio (38782y)

*One year – 1 credit*  
*Grade 11*  
*Prerequisite: IB S1 Indonesian Ab Initio*

This is the second year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior Indonesian learning experience. The main focus of the course is to develop listening, speaking, reading and writing skills, a basic awareness of the culture and also to prepare students for the IB Indonesian Ab Initio exam.

**Notes:** The IB exam for this course will be held in November of Grade 12

### IB S1 Indonesian B (3881y)

*One year – 1 credit*  
*Grade 11*  
*Prerequisite: successful completion of Indonesian 3 or Indonesian 4.*

This course is the first year of the Indonesian B Standard Level course. In this course students are exposed to complex material, vocabulary, developing oral fluency, consolidating grammatical structure, and an introduction to formal essay writing. The course is also designed to familiarize students with topics related to the culture of Indonesia.

### IB S2 Indonesian B (3883y)

*One year – 1 credit*  
*Grade 12*  
*Prerequisite: successful completion of IBS1 Indonesian B.*

The course is the second year of the Indonesian B Standard level course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written and spoken material. Students will be taught how



to recognize the purpose of the texts and how to respond appropriately. They should show awareness of, and sensitivity to, some elements of the culture related Bahasa Indonesia. Students may be required to participate in a field trip at a cost of Rp 500.000.

### IB H1 Indonesian B (3886y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: successful completion of Indonesian 4.*

The course is the first year of the 2-year IB Higher Level Indonesian course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed through the study and use of a range of written, spoken, literary, and non-literary material. Students will be taught how to recognize and analyze the purpose of texts and how to respond appropriately to. They should also show sensitivity to both Indonesian culture and literature.

### IB H2 Indonesian B (3885y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: successful completion of Indonesian IBH1 Indonesian B course.*

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

## Japanese

### Japanese 1 (3405y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: none*

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

### Japanese 2 (3410y)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: successful completion of Japanese 1 or sufficient knowledge of Japanese, as determined by the teacher.*

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

### Japanese 3 (3415)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: successful completion of Japanese 2 or sufficient knowledge of Japanese, as determined by the teacher.*

This course builds upon the foundation established in Japanese 1 and 2, with a continued emphasis on listening, speaking, reading, and writing skills. Students will expand their vocabulary and refine their grammatical knowledge through various interactive activities, including discussions, presentations, and written assignments. By the end of the year, students are expected to communicate effectively in everyday situations and comprehend more complex texts. The course will introduce an additional set of 100 kanji, bringing the total to 200. Grammar instruction will cover approximately half of the material in GENKI 2. Cultural topics will be further explored through multimedia resources, readings, and class discussions.

### Japanese 4 (3420)

*One year – 1 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: successful completion of Japanese 3 or sufficient knowledge of Japanese, as determined by the teacher.*

This course completes the core sequence of Japanese language studies, refining students' proficiency in listening, speaking, reading, and writing. Students will deepen their understanding of grammar and syntax, enabling them to express more nuanced thoughts and engage in more sophisticated conversations. Reading and writing tasks will become more complex, with a total of 400 kanji introduced by the end of the course. Grammar instruction will complete the remainder of GENKI 2. Various cultural themes, such as traditional and modern Japanese society, will be explored through discussions, projects, and authentic materials. By the conclusion of the course, students will be prepared to engage with Japanese at an intermediate level of proficiency.

**IB S1 Japanese Ab Initio (3425y)***One year – 1 credit**Grade 11**Prerequisite: completion of Japanese 1*

This is the first year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior Japanese learning experience. The main focus of the course is to develop listening, speaking, reading and writing skills, a basic awareness of the culture and also to prepare students for the IB Japanese Ab Initio exam.

**IB S2 Japanese Ab Initio (3426y)***One year – 1 credit**Grade 12**Prerequisite: completion of IB S1 Japanese Ab Initio*

This is the second year of the two-year Ab Initio program. The main focus of the course is to further develop the different linguistic skills and cultural awareness in order to prepare students for the IB Japanese Ab Initio exam.

**IB S1 Japanese B (3896y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of Japanese 2 or higher*

This course is the first year of the Japanese B Standard Level course. In this course, students are exposed to complex material, vocabulary, developing oral fluency, consolidating grammatical structure, and an introduction to formal essay writing. The course is also designed to familiarize students with topics related to the culture of Japan.

**IB S2 Japanese B (3899y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB S1 Japanese B*

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

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

**Mandarin 2 (3610y)***One year – One credit**Grades 9, 10, 11, 12**Prerequisite: successful completion of High School Mandarin 1, Middle School Beginning Mandarin, or Middle School Advanced Mandarin*

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

**Mandarin 3 (3615y)***One year, one credit**Grades 9,10,11,12**Prerequisite: Successful completion of High School Mandarin 2 or Middle School Advanced Mandarin*

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

**Mandarin 4 (3620y)***One year – 1 credit**Grade 10. Also open to Non-IB students in Grades 11 and 12**Prerequisite: successful completion of Mandarin 3 or Mandarin 2 with teacher recommendation.*

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

**Mandarin****Mandarin 1 (3605y)***One year – One credit**Grades 9, 10, 11, 12**Prerequisite: none*

**IB S1 Mandarin Ab Initio (36291y)***One year – 1 credit**Grade 11**Prerequisite: none*

This is the first year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior Mandarin learning experience. The main focus of the course is to develop listening, speaking, reading and writing skills, a basic awareness of the culture and also to prepare students for the IB Mandarin Ab Initio exam.

**IB S2 Mandarin Ab Initio (36302y)***One year – 1 credit**Grade 12**Prerequisite: IB S1 Mandarin Ab Initio*

This is the second year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior Mandarin learning experience. The main focus of the course is to develop listening, speaking, reading and writing skills, a basic awareness of the culture and also to prepare students for the IB Mandarin Ab Initio exam.

**IB S1 Mandarin B (3629y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of Mandarin 3 or 4.*

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

**IB S2 Mandarin B (3630y)***One year – 1 credit**Grades 12**Prerequisite: successful completion of IB S1 Mandarin B.*

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

**IB H1 Mandarin B (3631y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of Mandarin 4.*

The course is the first year of the 2-year IB Higher Level Mandarin course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should

be developed by the study and use of a range of written, spoken, literary, and non-literary material. Students will be taught how to recognize and analyze the communicative purpose of the texts and how to respond appropriately to them. Students will also study two works of literature.

**IB H2 Mandarin B (3632y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB H1 Mandarin B*

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

**Spanish****Spanish 1 (3505y)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite: none.**Recommended for Grade 11 students who require 2 years of language credit.*

This course provides an introduction to Spanish with practice in listening comprehension, speaking, reading and writing skills. By the completion of the year, students are expected to master basic grammatical structures and understand and produce simple sentences and texts, both orally and in writing. The course utilizes authentic materials such as texts, videos, listening comprehension devices, and other materials deemed appropriate to encourage cultural awareness.

**Spanish 2 (3520y)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite: successful completion of High School Spanish 1, Middle School Beginning Spanish, or Middle School Intermediate Spanish*

This course is a review and continuation of Spanish 1. Oral communication is stressed through group activities, exercises, presentations, and role-play. Emphasis is placed on reading and writing skills. By the end of the year, students are expected to speak and understand spoken and written Spanish at a pre-intermediate level of proficiency.

**Spanish 3 (3525y)***One year – 1 credit**Grades 9, 10, 11, 12**Prerequisite: successful completion of High School Spanish 2 or Middle School Advanced Spanish*

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

**Spanish 4 (3530y)***One year-1 credit.**Grades 10, 11, 12**Prerequisite: successful completion of Spanish 3.*

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

**IB S1 Spanish Ab Initio (3514y)***One year-one credit**Grade 11**Prerequisite: none*

This is the first year of the two-year Ab Initio program. This course is designed for IB Diploma candidates with little or no prior Spanish learning experience. The main focus of the course is to develop listening, speaking, reading and writing skills, a basic awareness of the culture and also to prepare students for the IB Spanish Ab Initio exam.

**IB S2 Spanish Ab Initio (3515y)***One year-one credit**Grade 12**Prerequisite: completion of IBS1 Spanish Ab Initio.*

This is the second year of the two-year Ab Initio program. The main focus of the course is to further develop the different linguistic skills and cultural awareness in order to prepare students for the IB Spanish Ab Initio exam.

**IB S1 Spanish B (3909y)***One year – 1 credit**Grade 11**Prerequisite: successful completion of Spanish 4*

This is the first year of the IB Spanish B Standard level course. The goals are to increase vocabulary

and develop oral fluency as well as listening and writing skills. Students will also explore writing different text types, and consolidate grammatical structures. The course is also designed to familiarize students with topics related to the cultures of Spanish-speaking countries.

**IB S2 Spanish B (3911y)***One year – 1 credit**Grades 12**Prerequisite: successful completion of IB S1 Spanish B.*

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

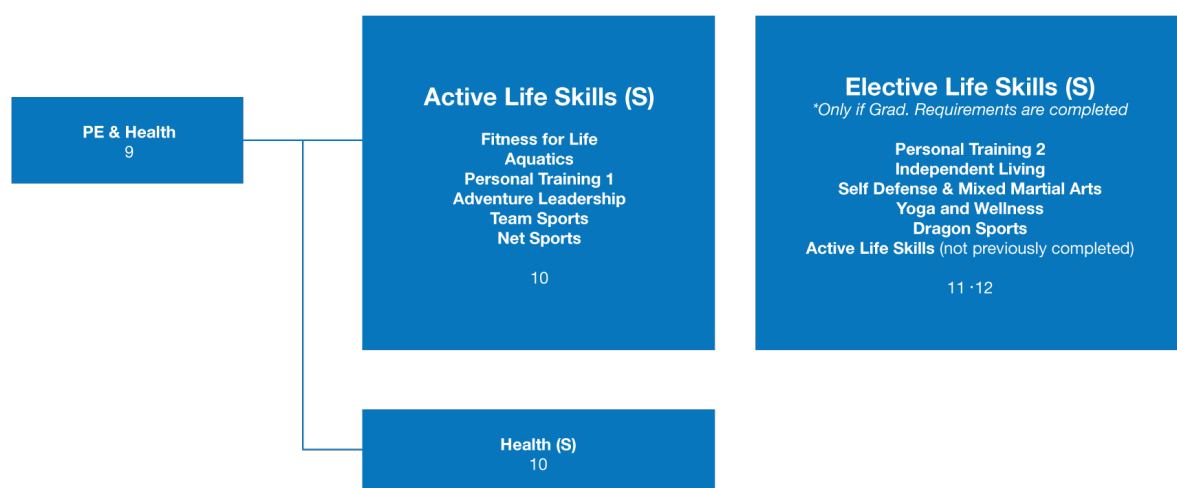
**IB H1 Spanish B (3916y)***One year - 1 credit**Grade 11**Prerequisite: successful completion of Spanish 4.*

The course is the first year of the 2-year IB Higher Level Spanish course. The main focus of this course is on language acquisition and development in the four main language skills. These skills should be developed by the study and use of a range of written, spoken, literary, and non-literary material. Students will be taught how to recognize and analyze the communicative purpose of the texts and how to respond appropriately to them. They should also show sensitivity to both Spanish culture and literature.

**IB H2 Spanish B (3917y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB H1 Spanish B*

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

## PHYSICAL EDUCATION



## PHYSICAL EDUCATION & HEALTH

### Department Philosophy

The high school Health & Physical Education Department's philosophy emphasizes creating a safe and inspiring environment for students to develop a love for physical activity, lifelong well-being habits, and physical skills. It promotes relating, reflecting, resilience, and resourcefulness while encouraging teamwork, self-confidence, and a global perspective.

The goal is to equip all students with the skills and enthusiasm for a lifetime of active, healthy habits and meaningful participation in the broader community.

### Grade 9 Physical Education

#### Physical Education and Health (PEH) (7151y)

One year – 1 credit

Grade 9

The Grade 9 Health & Physical Education course aims for all students to experience success and enjoyment as they actively participate in a wide range of physical activities. The course is designed to improve knowledge and understanding of personal fitness as well as building and enhancing movement skills. In addition, the grade 9 course works on interpersonal skills such as collaboration, empathy, giving and receiving feedback, and teamwork. Students are expected to participate to their potential and take ownership of their personal health, hygiene, and well-being.

class navigates current global trends and health issues to promote student understanding of choices and their consequences. The skill development of communication, problem-solving, and decision-making are integrated into topics such as accessing valid information, personal well-being, respectful relationships, and harm reduction. This course explores different cultural values and expectations, in addition to guiding students to navigate a transitional period in their lives.

#### Adventure Leadership (75030s)

One semester – 0.5 credit

Grades 10

Adventure Leadership provides an exciting alternative to traditional physical education and fitness classes by incorporating new opportunities for students to learn and develop skills to live an active and healthy life. This course offers students the opportunity to develop their leadership skills through team building and initiative tasks. Through various adventure, outdoor, and leadership activities such as wilderness first aid, SUPing, archery, climbing, and rappelling, students will be challenged to problem solve, communicate effectively, overcome fears, take risks, push their physical and mental boundaries, collaborate with others and develop individual leadership skills.

### Grade 10 Semester Classes

#### Health & Wellness (7153s)

One semester – 0.5 credit

Grade 10

The mandatory Grade 10 Health & Wellness course is designed to help students develop a personal and social responsibility for their lifestyle decisions. The



**Aquatics (7380s)***Semester One Only**One semester – 0.5 credit**Grades 10*

This course offers students the opportunity to further develop their aquatic skills, fitness and knowledge. Development and critique of all strokes, recreational activities such as water polo, underwater hockey and stand-up paddle boarding, and life-saving skills and procedures represent the three major units covered. Learning about water safety and life-saving skills can lead to external certification. The course is only offered in the first semester due to the availability of the pool.

**Fitness for Life (7395s)***One semester – 0.5 credit**Grades 10*

This course is designed to meet the needs of students who wish to improve and develop their physical well-being through participation in a diverse range of types of fitness. Activities such as circuit training, high-intensity interval training, body pump, boxing, yoga, and pilates make these unique types of fitness more accessible to students. In addition, there is a focus on flexibility and mobility interwoven throughout. This class will provide an opportunity for students to explore fitness opportunities within our local community, and promote goal-setting based on personal interests.

**Net Sports (7361s)***One semester – 0.5 credit**Grades 10*

This course provides students with an understanding of the principles of various net sports.

Students will study the phases of movement, the mechanics of effective shot execution, tactics and strategies, and fitness development related to sports such as badminton, pickleball, smashball, and volleyball. All athletic ability levels are accommodated in this course as each student works at their own pace to improve their skills. After taking this course, students will have the knowledge and skills that will enable them to pursue a variety of net sports and activities. Students will be able to improve their physical skills, game strategy and overall wellness.

**Personal Training and Conditioning 1 (7500s)***One semester – 0.5 credit**Grades 10*

This course covers many aspects of physical fitness, weight training, and conditioning. Students will learn about the concepts of weight training and personal physical fitness and apply these concepts to create their own workout based on their fitness goals. Students are introduced to functional fitness in order to promote safety and efficiency in their workouts.

Proper form and technique of common functional fitness exercises, consisting of both body weight and free weight resistance will be learned. Students will learn the main muscle groups and the best ways to develop them. The course also focuses on helping to develop a healthy lifestyle.

**Team Sports (7385s)***One semester – 0.5 credit**Grades 10*

Team Sports provides students with an opportunity to participate in a wide range of traditional and non-traditional sports. The expectation is that students will exercise, socialize and engage in a competitive and active environment. This course offers students the potential to enhance leadership skills by developing skills in team building, decision-making, and problem solving situations. Throughout the semester, the focus will be on developing transferable skills on offense and defense and using team strategy in a variety of situations. Students will improve their personal levels of fitness while fine-tuning their athletic skills and developing new relationships.

**Grade 11 and 12 Electives****Independent Living (7502s)**

*Semester One - Gr 11 & 12 Semester Two- ONLY Gr. 11 (Due to the scheduling of Mock and Final Exams for 12th graders)*

*One semester – 0.5 credit, Pass/Fail**Grades 11, 12 - priority given to seniors*

This course is for Grade 11 and 12 students to learn the basic survival skills for an independent life after JIS. Many new practical skills will be acquired such as car and home maintenance, healthy cooking, budgeting, and interview skills. The underlying goal is to help students with transition skills that would be required for a healthy independent life, away from home.

**Self Defense and Mixed Martial Arts (7520s)***One semester – 0.5 credit, Pass/Fail**Grades 11, 12**Prerequisite: 2 credits of PE*

This pass/fail course is designed to expose grade 11 and 12 students to a variety of Self Defense and Mixed Martial Arts type techniques and strategies in a fun and non-threatening environment. It will combine various elements of Boxing, Muay Thai, Brazilian Jiu Jitsu, and Grappling (wrestling) and students will develop skills, understand personal defense and improve their athletic training. Students will learn self-defense principles and develop strategies to be safe and aware of potential dangers in their surroundings.

**Personal Training 2 (7505s)***(Previously Independant Fitness and Power Fit)**One Semester – 0.5 credit, Pass/Fail**Grades 11, 12**Prerequisite: 2 Credits of PE*

This pass/fail course provides students an opportunity to regularly engage in a strength and conditioning program throughout the semester. Students will be able to pursue their personal interests and passions in fitness through daily workouts and increase their personal wellness by adding balance to their lives. Emphasis will be placed on safe, functional, multi-joint exercises as students learn to develop and implement their own exercise program. This course is designed for all levels of fitness, strength, and experience in the weight room. The end goal is that students become competent at a wide range of exercises and use of gym equipment so that they gain a sense of confidence and autonomy in any weight room setting.

**Yoga and Wellness (7396s)***One Semester – 0.5 credit, Pass/Fail**Grades 11, 12**Prerequisite: 2 credits of PE*

This class is designed to help you explore mindfulness in your own life, through Yoga, breathing, meditation, and other stress-relieving activities. The

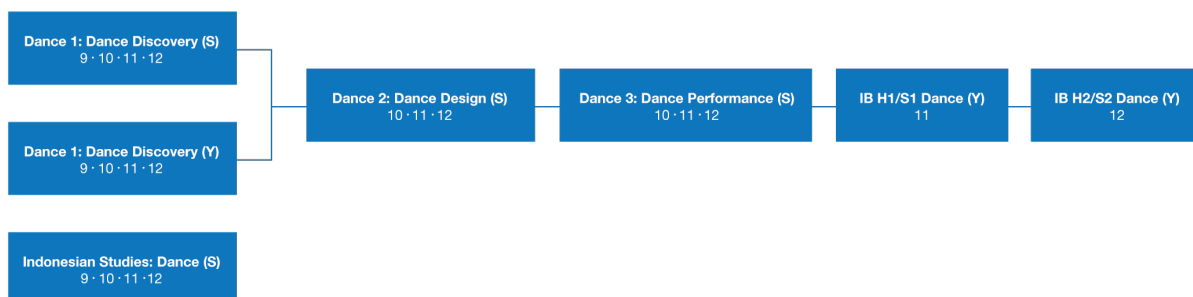
goal of the course is to improve your overall wellness by developing strategies to balance your body, mind, and spirit. This is an introductory course, therefore no prior experience or exposure is required.

**Dragon Sports (75032s)***One Semester – 0.5 credit, Pass/Fail**Grades 11, 12**Prerequisite: 2 credits of PE*

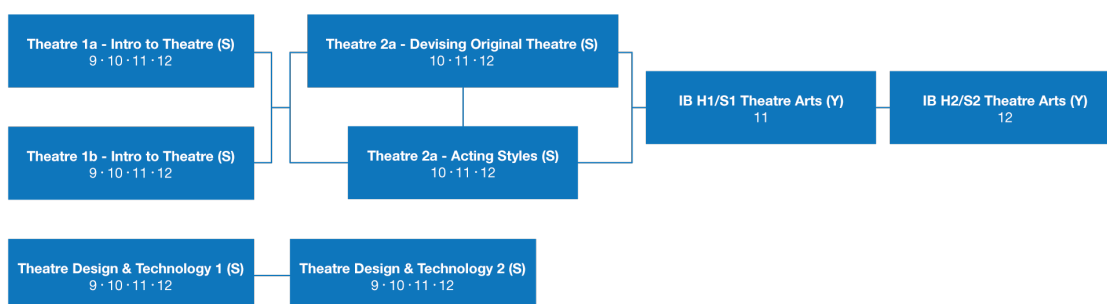
Dragon Sports is designed to engage students in a higher-level sports environment, focusing on skills, understanding of movement, and elevated gameplay. Building off prior knowledge of offensive and defense tactics and strategies, students will engage in both familiar and unfamiliar game situations. Students will also be exploring individual development through the application of concepts, teamwork, and leadership. No prerequisites are required, however, students need to be willing to participate in an exciting, fast-paced environment.



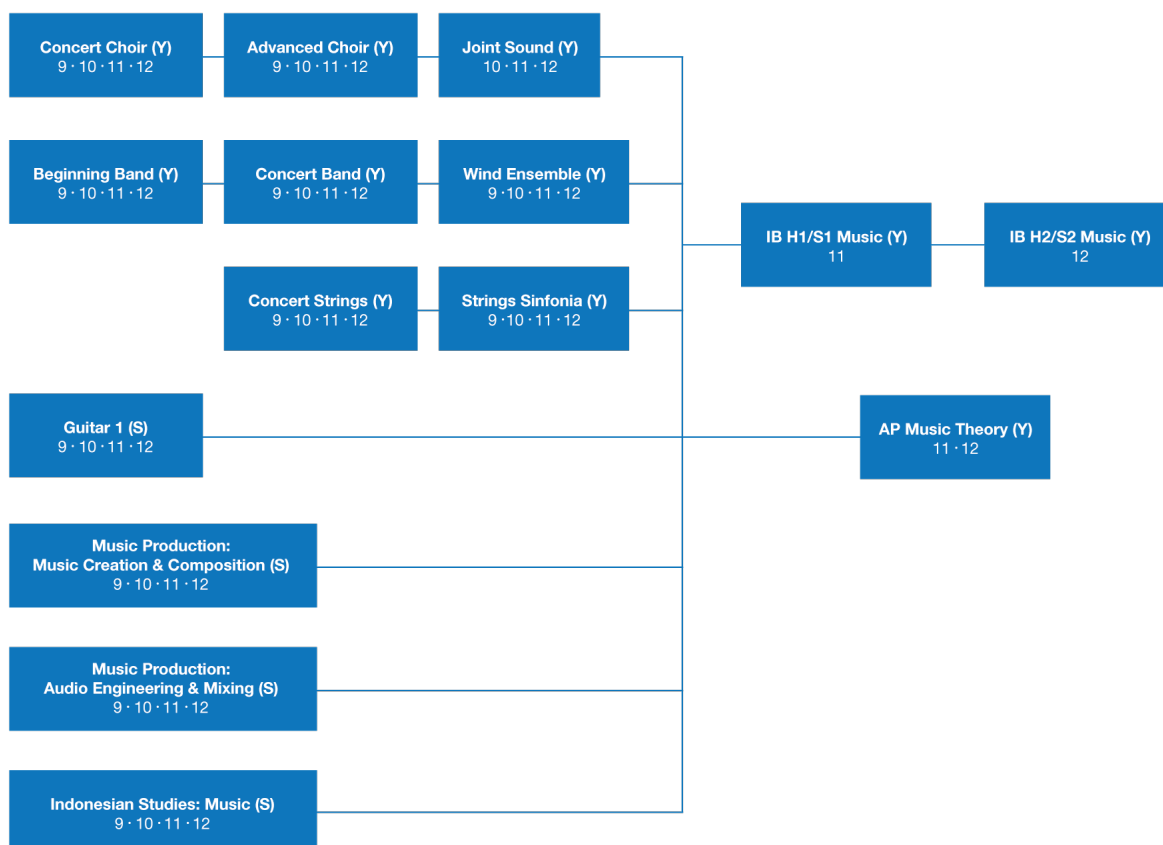
## DANCE COURSES



## THEATRE COURSES



## MUSIC COURSES



# PERFORMING ARTS

## Department Philosophy

The JIS Performing Arts program offers a thoughtfully structured sequence of courses, each designed to progressively increase in curricular complexity. Following this sequence allows students to build on their experiences and develop skill in Dance, Music, and Theatre.

## Dance Courses

### Dance 1: Dance Discovery (9310y)

*One year – 1 credit  
Grades 9, 10, 11, 12*

This course will develop student appreciation of dance as an art form and lifetime activity. Students will focus on building technical skills such as control, coordination, temporal clarity, and spatial awareness, as well as developing performance skills like expression and confidence. Designed to familiarize students with basic techniques in Hip Hop, Ballet, Musical Theatre and Tap, students will also study vocabulary and explore the historical contexts of each dance style. In each dance class, students will be expected to participate in warmups, across the floor progressions, choreography, and review. This course will have culminating performances as part of the Performing Arts Showcase and the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Students are also expected to contribute to the cost of purchasing costumes for public performances. Gaining movement skills and finding confidence and enjoyment through movement and performance are the focus of this class. No previous dance experience is necessary.

### Dance 1: Dance Discovery Semester (93101s)

*One semester – 0.5 credit  
Grades 9, 10, 11, 12*

This course is the semester option of the Dance 1 year-long course. The purpose and goals of the course are the same as the year-long class, however units may differ based on which semester the course is taken. Students will focus on building technical skills such as control, coordination, temporal clarity, and spatial awareness, as well as developing performance skills like expression and confidence. This course will have culminating performances as part of the Performing Arts Showcase or the Spring Dance Concert, depending on which semester the course is taken. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Depending on the performance, students may also be expected to contribute to the cost of purchasing costumes for public performances. Gaining movement skills and finding confidence and enjoyment through movement and performance are the focus of this class. No previous dance experience is necessary.

### Indonesian Studies: Dance (38872s) (MoE APPROVED)

*One semester - 0.5 credit and 0.5 MoE Indonesian Studies Requirement Credit for Non-Indonesian Passport Holders  
Grades 9, 10, 11, 12*

This active, one-semester elective course aims to develop the dance student's knowledge and appreciation of various Indonesian cultural dances and how they have influenced western modern dance. This course allows students to use Indonesian dance traditions as a way to experience cultures, history, politics, religions, and aesthetics from various regions of the archipelago. Throughout the semester, students will explore different practices such as court dances from Java, sacred dances from Bali, and folk dances from Sumatra. This course will combine analysis (reading, writing, research, and class discussion) combined with the practical application (physical learning) of each dance form studied. This course will have culminating performances as part of the Performing Arts Showcase or the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Involvement in this course may include travel outside of JIS to view live dance performances. Students may be expected to contribute to the cost of costumes for public performances.

### Dance 2: Dance Design (9320s)

*One semester - 0.5 credit  
Grades 10, 11, 12*

*Prerequisite:*

- *Dance 1: Dance Discovery or*
- *Dance 1: Dance Discovery Semester or*
- *Dance Teacher's approval*

This course is an introduction to dance composition. Students will explore the choreographic process and the basic tools used in choreography. Students will learn through improvisations, assignments, class discussions, and the completion of a final piece that will be presented at the end of the term. This course will have culminating performances as part of the Performing Arts Showcase and/or the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Students are also expected to contribute to the cost of purchasing costumes for public performances.

### Dance 3: Dance Performance (9330s)

One semester - 0.5 credit

Grades 10, 11, 12

Prerequisite:

- Dance 2: Dance Design or
- Dance Teacher's approval

This course focuses on the history of modern dance and how performance and technique have evolved through the 20th century. The practical application of this course will focus primarily on the dance techniques Doris Humphrey, Martha Graham, and Lester Horton. This dance course will give students an understanding of the forerunners and pioneers of modern dance and the impact they've had on society. Students will take an in depth look at famous works from these innovators and will choreograph an original piece that connects with the ideals and/or techniques of that choreographer. Students will learn through class discussions, video performances, and the completion of a final piece that will be presented at the end of the term. This course will have culminating performances as part of the Performing Arts Showcase and/or the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Students are also expected to contribute to the cost of purchasing costumes for public performances.

### IB H1 Dance (9332y)

One year - 1 credit

Grade 11

Highly Recommended:

- Minimum one completed Dance class or
- Dance Teacher's approval

This is the first of a two-year International Baccalaureate Higher Level (IB H1) Dance course. The course is designed for dance students with an invested interest in dance and it is very strongly recommended that the student has had prior dance experiences. The course consists of three main components: Composition and Analysis, which focuses on the making of dances and on identifying and analyzing the processes through which student dances are composed or arranged; World dance studies, where students, through dancing and classroom activities, will investigate dance cultures and/or traditions, both familiar and unfamiliar to them; and Dance Performance, requiring that students develop and demonstrate technical and performance skills while dancing in solo, duet or group work. This course will have culminating performances as part of the Performing Arts Showcase and/or the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Students are also expected to contribute to the cost of purchasing costumes for public performances.

### IB S1 Dance (9331y)

One year - 1 credit

Grade 11

Highly Recommended:

- Minimum one completed Dance class or
- Dance Teacher's approval

This is the first of a two-year International Baccalaureate Standard Level (IB S1) Dance course. The course is designed for dance students with an interest in dance performance and choreography, and it is strongly recommended that the student has had prior dance experience. The course consists of three main components: Composition and Analysis, which focuses on the making of dances and on identifying and analyzing the processes through which student dances are composed or arranged; World dance studies, where students, through dancing and classroom activities, will investigate dance cultures and/or traditions, both familiar and unfamiliar to them; and Dance Performance, requiring that students develop and demonstrate technical and performance skills while dancing in solo, duet or group work. This course will have culminating performances as part of the Performing Arts Showcase and/or the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Students are also expected to contribute to the cost of purchasing costumes for public performances.

### IB H2 Dance (9333y)

One year - 1 credit

Grade 12

Prerequisite:

- IB H1 Dance

This is the second year of a two-year International Baccalaureate Higher Level (IB H2) Dance course. Students will continue exploring and working to complete the examination requirements of the IB Dance course. Both duet and group compositions will be completed as well as written analyses based on the choreographic process. Familiar and unfamiliar dance cultures and/or traditions will continue to be explored while comparing and contrasting the historical contexts and dance elements of various dances. Performance and technical skills will also be refined through a number of formal and informal performances. This course will have culminating performances as part of the Performing Arts Showcase and/or the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Students are also expected to contribute to the cost of purchasing costumes for public performances.

### IB S2 Dance (9334y)

One year - 1 credit

Grade 12

Prerequisite:

- IB S1 Dance

This is the second year of a two-year International Baccalaureate Standard Level (IB S2) Dance course. Students will continue exploring and working to complete the examination requirements of the IB Dance course. Final compositions will be completed as well as written analyses based on the choreographic process. Familiar and unfamiliar dance cultures and/or traditions will continue to be explored while comparing and contrasting the historical contexts and dance elements of various dances. Performance and technical skills will also be refined through a number of formal and informal performances. This course will have culminating performances as part of the Performing Arts Showcase and/or the Spring Dance concert. Attendance and participation is mandatory and will include some after school rehearsals prior to the performance. Students are also expected to contribute to the cost of purchasing costumes for public performances.

## Music Courses

### Concert Choir (9222y)

*May be Repeated*

*One year - 1 credit or Semester - 0.5 credit*

*Grades 9, 10, 11, 12*

Concert Choir is a non-auditioned, beginning-level vocal ensemble open to all students who love to sing and want to improve their vocal skills. This course provides a welcoming environment for singers of all experience levels to explore the joy of choral music while developing fundamental techniques in vocal production, sight-singing, and ensemble performance. Students will develop confidence as singers, gain a deeper understanding of music from all genres, and experience the camaraderie of being part of a choir. Whether you're new to singing or looking to build your skills, Concert Choir is a great place to grow musically and connect with others through the power of song. This course may be repeated for credit. Attendance at all scheduled performances after school or on weekends is required. Students missing for any reason other than severe illness or death in the family will receive an NG in gradebook which may negatively affect the semester grade average. Students must pay for their own costumes or uniforms. No prior experience or audition is required—just bring your voice and enthusiasm.

### Advanced Choir (9870y)

*May be Repeated*

*One year - 1 credit or Semester - 0.5 credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- Minimum two semesters of HS Concert Choir and or
- MS Advanced Choir or
- High school Choir Teacher's approval through Audition

Advanced Choir is an intermediate-level vocal ensemble designed for high school students with

prior choral experience who want to further develop their vocal and musical abilities. This course emphasizes advanced vocal techniques, music literacy, and expressive performance skills while exploring a diverse and challenging repertoire. Students will refine their vocal and ensemble skills, deepen their understanding of choral artistry, and gain confidence in performing complex music. This ensemble provides a supportive and collaborative environment where students can grow as musicians and performers. This course may be repeated for credit. Attendance at all scheduled performances after school or on weekends is required. Students missing for any reason other than severe illness or death in the family will receive an NG in grade book which may negatively affect the semester grade average. Students must pay for their own costumes or uniforms. Join the Advanced Choir course and take your singing as well as musicianship to the next level while enjoying the thrill of performing as part of a talented group.

### Joint Sound (9230y)

*May be Repeated*

*One year - 1 credit or Semester - 0.5 credit*

*Grades 10, 11, 12*

*Prerequisite:*

- Two semesters of HS Advanced Choir or
- High school Choir Teacher's approval through Audition

Joint Sound is an advanced-level high school vocal ensemble for skilled and dedicated singers. This elite group specializes in performing challenging music where each singer often holds their own part, requiring strong independent musicianship and advanced vocal technique. The ensemble explores a diverse repertoire, including contemporary, classical, and a cappella styles, and is committed to creating captivating and nuanced performances. Students will develop exceptional vocal and ensemble skills, refine their ability to perform with precision and confidence, and gain experience as versatile, independent musicians. Joint Sound offers an environment for advanced singers to achieve musical excellence while building a sense of unity and professionalism. Students missing concerts and dress rehearsals for any reason other than severe illness or death in the family may receive an NG in grade book which will negatively affect the semester grade average. Students must pay for their performance costumes or uniforms. Join Joint Sound for the opportunity to perform intricate and exciting music at the highest level.

### Concert Strings (9240y)

*May be Repeated*

*One year - 1 credit or Only Semester 1 - 0.5 credit*

*Grades 9, 10, 11, 12*

*Prerequisites:*

- Prior string ensemble experience and
- High school Strings Teacher's approval through Audition

Concert Strings is a performing group open to students who have prior string ensemble

experience and who have a sound knowledge of basic bowing and left-hand technique, including some third position. No audition is required. Members of Concert Strings will occasionally join other JIS High School instrumental ensembles in concert. Concert dress is required. With the exception of cellists and bassists students are encouraged to own their own instruments. Some instruments are available for rental. Attendance at all scheduled general rehearsals and performances are required.

## String Sinfonia (9290y)

*May be Repeated*

*One year - 1 credit or Semester - 0.5 credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Concert Strings or*
- *High school Strings Teacher's approval through Audition*

String Sinfonia is an advanced performing ensemble for strings open to all students in grade 9-12 upon instructor approval through audition. In addition to regular concert performances of classical string music, the Sinfonia may occasionally combine with other High School music ensembles to perform chamber or symphonic orchestral works. With the exception of cellists and bassists students are encouraged to own their own instruments. Some instruments are available for rental. Concert dress is required. Attendance at scheduled general rehearsals and performances is required. On rare occasions, the orchestra may be asked to perform off campus.

## Beginning Band (9250y)

*One year - 1 credit or Only Semester 1 - 0.5 credit*

*Grades 9, 10, 11, 12*

This class is designed for students who desire to learn an instrument for the first time, or who wish to learn to play a new or second instrument. Students with no prior musical experience are welcome as are students who have sung or previously played an instrument. Only instruments of the woodwind, brass and percussion families are taught in this class. The teacher reserves the right to limit the types and numbers of instruments offered in the above three families to ensure proper ensemble balance. At the end of one semester, and at the teacher's discretion, students may then be allowed to move to a section of Concert Band or continue in Beginning Band. An instrument will be provided for each student in the Beginning Band. Unless waived by the teacher, students using school-owned instruments will be charged a nominal rental fee. Attendance at all Beginning Band performances is required.

## Concert Band (9260y)

*May be Repeated*

*One year - 1 credit or Only Semester 1 - 0.5 credit*  
*Grades 9, 10, 11, 12*

*Prerequisite:*

- *High school Band Teacher's approval through Audition*

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

## Wind Ensemble (9270y)

*May be Repeated*

*One year - 1 credit or Semester - 0.5 credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Concert Band or*
- *High school Band Teacher's approval through Audition*

Wind Ensemble is the top-level band at JIS and is only open to students in grades 9-12 through a required audition with the teacher. Wind Ensemble performs Grade Level 4-5 band literature. In addition, students will build on the basic theory learned in Concert Band by learning and working in all major, minor and chromatic scales; modes; chords and advanced rhythms. Attendance at all scheduled rehearsals and performances is required. With the possible exception of large instruments, (examples - tuba, euphonium, bassoon, bass clarinet, baritone saxophone) students are expected to purchase their own instruments.

## Guitar 1 (92912s)

*May Not be Repeated*

*Semester - 0.5 credit*

*Grades 9, 10, 11, 12*

This semester course is offered to all HS students who are interested in learning guitar. This class is for beginners and at the same time open for students who would like to improve their skills. By the end of the semester, students will be able to perform music and or songs at a beginner level in a pop, rock and/or classical style, often together with other students in a group (band). All students will have the opportunity to study and perform a wide variety of classical and popular music. In addition, an emphasis is placed on individual instrumental performance and developing musicianship skills. As with all performing ensembles, home practice



and concert performances are an expectation. Acoustic guitars are available for rental. Concert performances are part of the curriculum.

### Music Production: Creation and Composition (92821s)

*One semester - 0.5 credit*  
*Grades 9, 10, 11, 12*

This course introduces students to the art of creating original music using digital audio workstations (DAWs). Students will explore the building blocks of music, including melody, harmony, rhythm, and song structure. Through hands-on projects, they will learn to compose and arrange tracks, experiment with sampling and synthesis, and bring their musical ideas to life. By the end of the semester, students will complete original compositions and gain confidence in developing their musical ideas from concept to production.

### Music Production: Engineering and Mixing (92820s)

*One semester - 0.5 credit*  
*Grades 9, 10, 11, 12*

This course focuses on the technical aspects of music production, guiding students through the process of recording, editing, and mixing audio. Students will learn professional techniques for capturing sound, enhancing recordings, and creating polished mixes that meet industry standards. By the end of the semester, students will have a working knowledge of audio engineering principles and complete a polished mix of a recorded or produced track.

### AP Music Theory (98800y)

*One year - 1 credit*  
*Grade: 11, 12*

*Prerequisite:*

- Interview with high school Music Teacher

*Highly Recommended:*

- Prior experience in Choir, Band, Strings, Music Production, or private lessons
- Experience reading music notation

This advanced music course is designed for students interested in pursuing music at an advanced level, preparing for college-level music studies, or gaining a deeper appreciation for the artistry and structure of music. Students will engage in a comprehensive exploration of music's structural elements, fostering critical listening, analytical, and compositional skills. Students will develop fluency in music notation, ear training, and theoretical analysis, enabling them to read, write, and interpret music with confidence. Students will actively engage with music through singing, playing, listening, and creating. The course emphasizes real-world application of theory to prepare students for success on the AP Music Theory Exam and further studies in music.

### Indonesian Studies: Music (38873s) (MoE APPROVED)

*One semester - 0.5 credit and 0.5 MoE Indonesian Studies Requirement Credit for Non-Indonesian Passport Holders*  
*Grades 9, 10, 11, 12*

This fun one-semester elective course aims to develop musicianship through exploration of Indonesian Folk music. This course allows students to learn Solfège, Chord Symbols as well as rhythm and melody exploration based on Indonesian Folk music from various regions of the archipelago. Throughout the semester, students will explore different and distinct music, such as Pelog and Slendro-influenced music from Java, lyrical music from Sulawesi, and short yet lively music from Sumatra, Kalimantan, and Papua. This course will combine basic numbered notation and chord reading combined with ensemble skills using traditional Indonesian instruments such as Kolintang, Angklung and or the Kendang. This course will have culminating performances as part of the Visual Arts Showcase or the Senior Farewell concert. Attendance and participation are mandatory and will include some after-school rehearsals prior to the performance. Involvement in this course may include travel outside of JIS to experience and view live Angklung or Kolintang performances.

### IB H1 Music (9886y)

*One year - 1 credit*  
*Grade 11*

*Prerequisite:*

- Interview with high school Music Teacher

*Highly Recommended:*

- Minimum two semesters of a high school music class completed in grade 10
- Experience reading music notation

This is the first year of a two-year International Baccalaureate Music course. IB HL Music involves an in-depth study of historical and cultural survey of the major style periods of western and non-western music. Students will study, listen to, analyze, perform, create, and write about a variety of music. The course will follow the IB Music curriculum. Aside from being a strong foundation for further study in music at university level the class will enrich the education of any student that has an interest in music but is pursuing other careers. IB HL Music students will have an extra assessment of composition and collaboration with other art disciplines in a real world setting.

### IB S1 Music (9881y)

*One year - 1 credit*  
*Grade 11*

*Prerequisite:*

- Interview with high school Music Teacher

*Highly Recommended:*

- Minimum two semesters of a high school music class completed in grade 10
- Experience reading music notation

This is the first year of a two-year International



Baccalaureate Music course. IB SL Music involves an in-depth study of historical and cultural survey of the major style periods of western and non-western music. Students will study, listen to, analyze, perform, create, and write about a variety of music. The course will follow the IB curriculum. Aside from being a foundation for further study in music at university level the class will enrich the education of any student that has an interest in music but is pursuing other careers.

### IB H2 Music (9887y)

*One year – 1 credit*

*Grade 12*

*Prerequisite:*

- IB H1 Music

This is the 2nd year of a two-year International Baccalaureate Music course. IB H2 Music will continue following the HL Music requirements involving an in-depth study of historical and cultural survey of the major style periods of western and non-western music. Students will study, listen to, analyze, perform, create, and write about a variety of music. Aside from being a foundation for further study in music at university level the class will enrich the education of any student that has an interest in music but is pursuing other careers. Higher level students will have an extra assessment of composition and collaboration with another arts discipline in a real world setting.

### IB S2 Music (9882y)

*One year - 1 credit*

*Grade 12*

*Prerequisite:*

- IB S1 Music

This is the 2nd year of a two-year International Baccalaureate Music course. IB S2 Music will continue following the SL Music requirements involving an in-depth study of historical and cultural survey of the major style periods of western and non-western music. Students will study, listen to, analyze, perform, create, and write about a variety of music. Aside from being a foundation for further study in music at university level the class will enrich the education of any student that has an interest in music but is pursuing other careers.

## Theatre Courses

The High School Theatre program is designed to provide a flexible and exciting program allowing students to maximize the opportunity to study theatre throughout their four years. Each of the theatre courses is designed to support young theatre makers interested in International Baccalaureate Theatre Studies.

### Theatre 1a - Intro to Theatre (95403s)

*One semester - 0.5 credit*

*Grades 9, 10, 11, 12*

In this course, students will be introduced to many different aspects of theatre, with a focus on the fundamentals of acting and performance. Students will explore a variety of approaches to performance, including improvisation, mask work, physical theatre, monologue and scene study. Students will demonstrate their learning in a public performance of a one-act play. While it is preferred that students complete Theatre 1a and Theatre 1b, students may take Theatre 1b without completing Theatre 1a during semester one.

### Theatre 1b - Intro to Theatre (95404s)

*One semester - 0.5 credit*

*Grades 9, 10, 11, 12*

In this course, students will build upon skills introduced in Theatre 1a. In this course, students will continue to engage with many different aspects of theatre and performance and will be introduced to different theatre and performance traditions including Physical Theatre and Devising, British Panto, and Children's Theatre, as well as world performance traditions such as Indonesian Topeng Dance Theatre. Students will demonstrate their learning in a public performance of a one-act play. While it is preferred that students complete Theatre 1a and Theatre 1b, students may take Theatre 1b without completing Theatre 1a during semester one.

### Theatre 2a - Devising Original Theatre (9570s)

*One semester - 0.5 credit*

*Grades 10, 11, 12*

*Prerequisite:*

- Theatre 1a - Intro to Theatre or
- Theatre 1b - Intro to Theatre

Students work in small and full-class ensembles to collaborate, devise, rehearse and perform original pieces of theatre. Students will research a variety of theatre practices and companies that create original work in order to devise their own original pieces of Physical Theatre, Verbatim Theatre, Immersive and Site-Specific work. In this course, students will learn to create, rehearse, and perform works of Physical Theatre, Verbatim Theatre, Immersive, and Site-Specific Theatre for a live audience. This course is highly recommended for students wishing to take IB H1 Theatre Arts.

### Theatre 2b - Acting Styles (95402s)

*One semester - 0.5 credit*

*Grades 10, 11, 12*

*Prerequisite:*

- Theatre 1a - Intro to Theatre or
- Theatre 1b - Intro to Theatre

How could the flick of a fan create outrage in 1670? What was the proper way to doff a hat or

greet a host in the 1800s? In this advanced acting course, students will explore specific acting styles in conjunction with the historical life and times that formed those styles. Students will perform scenes from three different genres and styles of classical (western) theatre. The work in this class will couple the technique-oriented and physical aspects of portraying a character from Elizabethan Theatre, Restoration and Comedy of Manners, and Realism (Chekhov and Ibsen), with constant attention to the basics that unite all acting -- character analysis and intention playing. This course is highly recommended for students wishing to take IB H1 Theatre Arts.

### Theatre Design and Technology 1 (98610s)

One semester - 0.5 credit

Grades 9, 10, 11, 12

Ready to create your unique vision on stage Designers? Students will be introduced to theatrical design (set, lighting, sound, costumes and makeup - if time allows) through theoretical and practical applications in the form of 4 - 5 large projects based on a singular script. Through script analysis students will get to the heart of the play and with research find their individual perspective and vision for productions, costumes, scenery, sound and lighting design.. Students will also learn the important skill of collaboration by working together in small teams on a grand final project that includes all aspects of the design process and creative elements needed to produce a scaled in depth model. All work will be documented, collected and graded in a Digital Design Portfolio and in class notebooks to assist in any future college portfolio applications.

### Theatre Design and Technology 2 (98612s)

One semester - 0.5 credit.

Grades 9, 10, 11, 12

Prerequisite:

- Theatre Design and Technology 1

*This course can be taken more than once*

Theatre Design and Technology 2 builds upon the skills learned in Theatre Design and Technology 1 concepts in set, lighting, sound, costumes are explored in greater detail with the opportunity to create design work for several JIS productions throughout the semester. This course also provides students with opportunities to pursue particular areas of interest within technical theatre by assisting with after school concerts and performances as a designer or Stage Manager. Due to the nature of the course, working on a JIS FAT, Jatayu or Mulati production is essential to student learning through hands-on experiences, which cannot be achieved in the classroom, therefore each student is required to assist on a tech crew for at least one performance event within the semester.

### IB H1 Theatre Arts (9850y)

One year - 1 credit

Grade 11

Prerequisite:

- Interview with high school Theatre Teacher

Highly Recommended:

- Minimum one semester of a high school Theatre class completed

This is the first year of a two-year International Baccalaureate Higher Level (IB HL) Theatre Arts course. The IB Diploma Program Theatre course is a multifaceted theatre-making course of study. It gives students the opportunity to make theatre as creators, designers, directors, and performers. It emphasizes the importance of working both individually and collaboratively as part of an ensemble. It offers the opportunity to engage actively in the creative process, transforming ideas into action as inquisitive and productive artists. Students will experience the course from contrasting artistic perspectives, and will learn to apply research and theory to inform and to contextualize their work. Theatre arts encourages students to appreciate that through the processes of researching, creating, preparing, presenting and critically reflecting on theatre as participants and audience members they gain a richer understanding of themselves, their community and the world. Throughout IB HL Theatre Arts, students will complete a mock exam for each of the four IB Theatre assessments: The Research Presentation, The Collaborative Project, The Production Proposal and the Solo Theatre Performance.

### IB S1 Theatre Arts (9845y)

One year - 1 credit

Grade 11

Prerequisite:

- Interview with high school Theatre Teacher

Highly Recommended:

- Minimum two semesters of a high school Theatre class completed

This is the first of a two-year International Baccalaureate Standard Level Theatre course. The IB Diploma Program Theatre course is a multifaceted theatre-making course of study. It gives students the opportunity to make theatre as creators, designers, directors, and performers. It emphasizes the importance of working both individually and collaboratively as part of an ensemble. It offers the opportunity to engage actively in the creative process, transforming ideas into action as inquisitive and productive artists. Students experience the course from contrasting artistic perspectives. They learn to apply research and theory to inform and to contextualize their work. Theatre arts encourages students to appreciate that through the processes of researching, creating, preparing, presenting and critically reflecting on theatre as participants and audience members they gain a richer understanding of themselves, their community and the world. Throughout IB SL Theatre Arts, students will complete a mock exam for each of the four IB Theatre assessments: The Research Presentation, The Collaborative Project, The Director's Notebook and the Solo Theatre Performance.

**IB H2 Theatre Arts (9860y)***One year - 1 credit**Grade 12**Prerequisite:*

- *IB H1 Theatre Arts*

IB H2 Theatre Arts builds upon learning, performance techniques and theatre processes introduced in IB H1 and focuses on completing the four IB Theater assessments. In the Research Presentation students undertake practical and physical research into an unfamiliar world tradition and present their findings. For the Production Proposal, students adopt a directorial perspective and to develop the concept and staging of a published script. It includes written work, scenarios, images, storyboards and any other materials that convey the essence of the proposed performance. The Solo Performance is an individual performance based on the theory of an established, published practitioner. Finally, the Collaborative Project gives voice to the students as young theatre makers in creating an original piece of theatre.

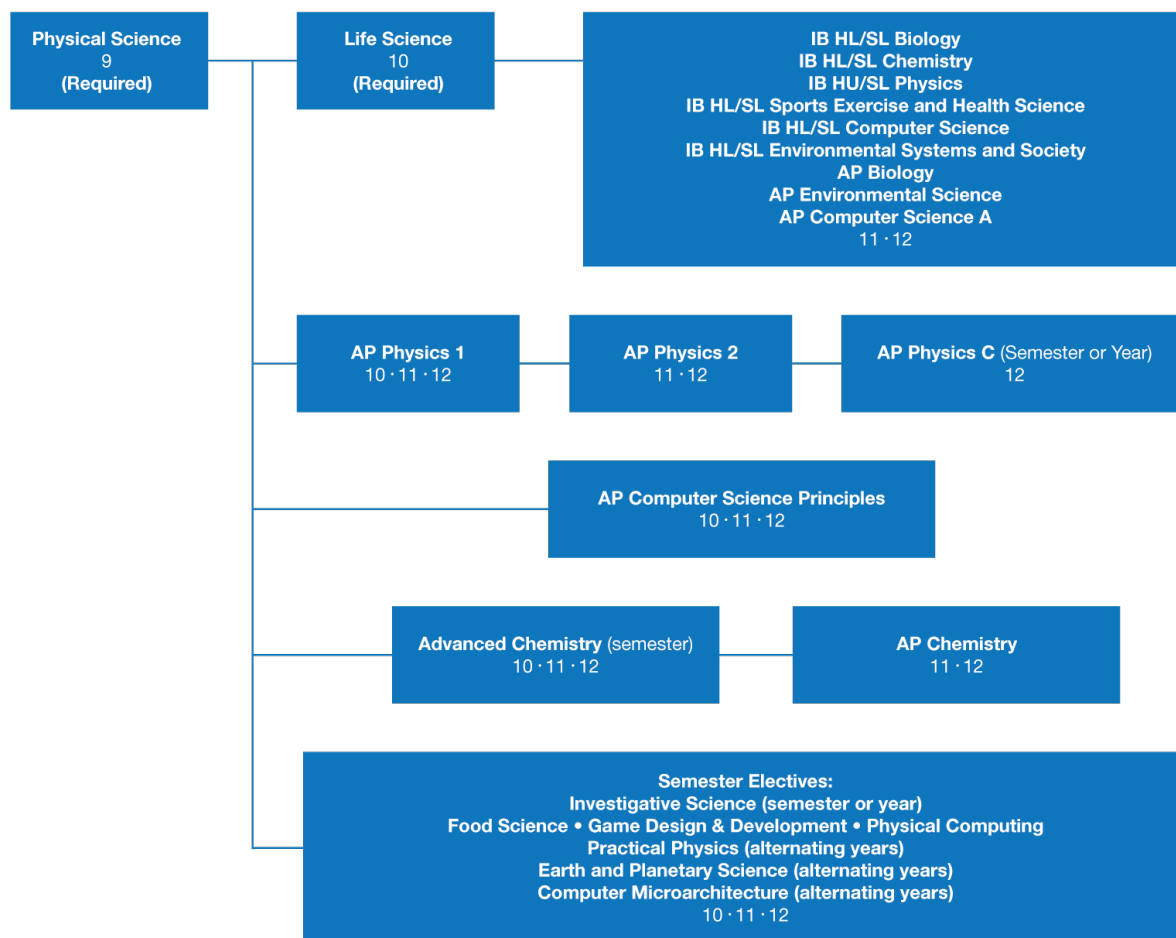
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**IB S2 Theatre Arts (9846y)***One year - 1 credit**Grade 12**Prerequisite:*

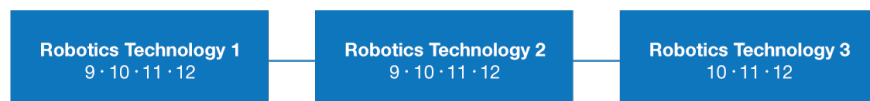
- *IB S1 Theatre Arts*

IB S2 Theatre Arts builds upon learning, performance techniques and theatre processes introduced in IB S1 and focuses on completing the three IB Theater SL assessments. In the Research Presentation students undertake practical and physical research into an unfamiliar world tradition and present their findings. For the Production Proposal, students adopt a directorial perspective and to develop the concept and staging of a published script. It includes written work, scenarios, images, storyboards and any other materials that convey the essence of the proposed performance. Finally, the Collaborative Project gives voice to the students as young theatre makers in creating an original piece of theatre.

# SCIENCE



# ROBOTICS (ARTS CREDIT)



# SCIENCE

## Department Philosophy

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

### Physical Science (61131y)

*One year – 1 credit*

*Grade 9 (Required Course)*

*Prerequisite: None*

Physical Science is a foundational science course building conceptual understanding of core scientific ideas from Physics, Chemistry, and Computer Science and is a prerequisite for all other high school science courses. The course weaves introductory Computer Science concepts and applications throughout the fundamental Physics and Chemistry. Physical Science provides a foundation for further study in any scientific field while also supporting general scientific and computer literacy. Emphasis will be placed on both laboratory experimental work as well as conceptual application, often through computer modeling.

### Life Science (61121y)

*One year – 1 credit*

*Grade 10 (Required Course)*

*Prerequisite: Physical Science*

Life Science is a foundational science course building conceptual understanding of core scientific ideas from Biology, Environmental Science, and Computer Science and is a prerequisite for all other high school science courses. The course weaves introductory Computer Science concepts and applications throughout the fundamental Biology and Environmental Science. Life Science provides a foundation for further study in any scientific field while also supporting general scientific and computer literacy. Emphasis will be placed on both laboratory experimental work as well as conceptual application, often through computer modeling.

### IB S1 Biology (6821y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science*

This course is the first year of the Standard Level IB Biology program. There is a strong emphasis on critical thinking skills and experimentation, which allows students to experience the nature of scientific thought and investigation. Practical activities allow students to interact directly with natural phenomena and secondary data sources. These experiences provide the students with the opportunity to design investigations, collect data, develop manipulative skills, analyse results, collaborate with peers and evaluate and communicate their findings. Students

will complete at least one personal investigation in preparation for their year 2 internal assessment. Topics covered in the first year are Biomolecules, Cell Biology, Nucleic Acids, Body Communication and Body Systems. Students also participate in the IB-mandated Collaborative Sciences Project.

### IB S2 Biology (6823y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 Biology*

This second year of Standard Level IB Biology completes the IB SL syllabus, including an emphasis on exam preparation. Topics studied include Plant Science, Metabolism, Reproduction, Evolution and Ecology. There is a strong emphasis on honing critical thinking skills, experimental design and the writing of IB lab reports. Students will complete one ten-hour long individual investigation worth 20% of their course grade to fulfill the internal assessment component of the course.

### IB H1 Biology (6825y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science (grade of B or better is HIGHLY recommended).*

This Higher Level IB Biology course is the first year of a two year program that is a foundation course for further study of biology, medicine, agriculture, etc, beyond high school. There is a strong emphasis on critical thinking skills and experimentation, which allows students to experience the nature of scientific thought and investigation. Practical activities allow students to interact directly with natural phenomena and secondary data sources. These experiences provide the students with the opportunity to design investigations, collect data, develop manipulative skills, analyse results, collaborate with peers and evaluate and communicate their findings. Students will complete multiple lab investigations to learn skills, and at least one full individual investigation in preparation for their year 2 internal assessment. Topics covered in the first year are Biomolecules, Cell Biology, Nucleic Acids, Body Communication and Body Systems, as well as some independent study of Plant Science. Students also participate in the IB-mandated Collaborative Sciences Project.

**IB H2 Biology (6830y)***One year – 1 credit**Grade 12**Prerequisite: successful completion of IB HL Biology 1*

This second year of the Higher Level IB Biology course completes the IB HL syllabus and prepares students for the IB Biology examination. Topics include Plant Science, Metabolism, Reproduction, Evolution and Ecology. Students will complete one ten-hour long individual investigation worth 20% of their course grade to fulfill the internal assessment component of the course.

**AP Biology (68301y)***One year – 1 credit**Grade 11 or 12**Prerequisite: Physical Science and Life Science*

AP Biology is an introductory college-level biology course designed for students interested in advanced biology courses at the university level. The course is based thematically on four main ideas: The process of evolution drives the diversity and unity of life; Biological systems utilize free energy and molecular building blocks to grow, reproduce and to maintain dynamic homeostasis; living systems store, retrieve, transmit and respond to information essential to life processes; Biological systems interact and these systems and their interactions possess complex properties. Students will engage with the material through science practices such as modelling, mathematical analysis, scientific investigations, and conceptual connections. Concepts will be examined through laboratory exercises that focus on inquiry and investigation where students will develop their capacity for problem-solving and critical thinking.

**IB S1 Sports, Exercise and Health Science (6400y)***One year – 1 credit**Grade 11**Prerequisite: Physical Science and Life Science.*

This course combines academic study with practical and investigative skills. This course is the first year of the IB Standard Level Sports, Exercise and Health Science program. It is the first year of a two-year program designed to prepare students for the IB Higher Level examination in Sports, Exercise, and Health Science. Students will cover a range of core topics and carry out practical investigations in both laboratory and field settings. Considerable emphasis will be placed on conducting practical experiments and analyzing scientific data from various sports and exercise contexts. The topics covered in the first year include: Measurement and Evaluation of Human Performance, Anatomy, Exercise Physiology, and Energy Systems and Movement Analysis. Students will complete individual investigations in preparation for their year 2 internal assessment.

**IB S2 Sports, Exercise and Health Science (6403y)***One year – 1 credit**Grade 12**Prerequisite: IB S1 Sports, Exercise and Health Science.*

This second year of IB Sports, Exercise, and Health Science completes the IB Standard Level syllabus, including a strong emphasis on preparation for the final IB exam. Topics include Skill in Sport, Optimizing Physiological Performance, and Sports Psychology. A focus on practical applications of the academic course content will continue to be a significant part of this course. Students will spend considerable class time planning and carrying out an individual practical investigation which will count as 20% of their IB grade.

**IB H1 Sports, Exercise, and Health Science (6410y)***One year – 1 credit**Grade 11**Prerequisite: Physical Science and Life Science (grade of B or better is HIGHLY recommended)*

This course combines academic study with practical and investigative skills. It is the first year of a two-year program designed to prepare students for the IB Higher Level examination in Sports, Exercise, and Health Science. Topics include Anatomy, Physiology, Nutrition, Biomechanics, Measurement of Human Performance, the Endocrine System, and Fatigue. Considerable emphasis will be placed on conducting practical experiments and analyzing scientific data from various sports and exercise contexts. Students will complete individual investigations in preparation for their year 2 internal assessment.

**IB H2 Sports, Exercise, and Health Science (6411y)***One year – 1 credit**Grade 12**Prerequisite: IB H1 Sports, Exercise and Health Science*

This second year of IB Sports, Exercise, and Health Science completes the IB Standard Level syllabus, including a strong emphasis on preparation for the final IB exam. Topics include Skill in Sport, Skill Acquisition & Analysis, Genetics & Athletic Performance, Exercise & Immunity, Optimizing Physiological Performance, and Sports Psychology. A focus on practical applications of the academic course content will continue to be a significant part of this course. Students will spend considerable class time planning and carrying out an individual practical investigation which will count as 20% of their IB grade.

**IB S1 Environmental Systems and Societies (6811y)***One year – 1 credit**Grade 11**Prerequisite: Physical Science and Life Science*



This course is the first year of a two-year program of studies with the second year course being IB S2 Environmental Systems and Societies. ESS is designed to be an interdisciplinary course which combines the methods, techniques, knowledge, and rigor of a science subject with aspects of social studies. It is a complex course requiring a broad skill set. The language demand is high. Its roots are in mathematical data analysis and critical thinking; but, branches of the course extend into the politics, ethics, culture, and economics of how our environment is viewed through human eyes. The first year provides a grounding in the systems approach to the complexities of environmental functioning and goes on to focus on how the environment is conserved and used by humans as a food and energy source. Students are encouraged to develop a personal philosophy on environmental stewardship and interactions. Students will devote considerable energy to a personal choice of internal assessment project which will contribute 25% of their final IB result. These studies will include a mandatory field trip of 3-days/ 2-nights to a nearby island at an additional cost to the student of approximately U.S. \$700 (August year 2). This course may be taken as a Group 3 (Individuals & Societies) course to fulfill IB diploma requirements.

### **IB S2 Environmental Systems and Societies (6812y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Completion of IB S1 Environmental Systems and Societies required.*

This second year of IB SL Environmental Systems & Societies completes the syllabus, including an emphasis on lab work and exam preparation. There will also be preparation for Paper 1, which requires students to synthesize their understandings from 8-12 pieces of new data relating to a specific, previously unseen case study. The course investigates the impacts of human interactions on the Earth's ecological systems, thus enabling students to take an informed and responsible stance on a wide range of pressing environmental issues that are relevant to their daily lives. Topics include: resource exploitation, ozone depletion, global warming, pollution, and human population growth and its effects on the environment.

### **IB H1 Environmental Systems and Societies (6811y)**

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science (grade of B or better is HIGHLY recommended)*

This course is the first year of a two-year program of studies with the second year course being IB H2 Environmental Systems and Societies. ESS is designed to be an interdisciplinary course which combines the methods, techniques, knowledge, and rigor of a science subject with aspects of social studies. It is a complex course requiring a broad skill set. The language demand is high. Its

roots are in mathematical data analysis and critical thinking; but, branches of the course extend into the politics, ethics, culture, and economics of how our environment is viewed through human eyes. The first year provides a grounding in the systems approach to the complexities of environmental functioning and goes on to focus on how the environment is conserved and used by humans as a food and energy source. The HL course (new for 2024-25) has three HL only lenses—environmental law, environmental and ecological economics, and environmental ethics. The conceptually more demanding HL lenses allow for far more sophisticated processing and balanced viewpoints. The additional HL content requires the student to make more connections between diverse areas of the syllabus, resulting in increased networked knowledge and a comprehensive understanding of the complexities of environmental issues as well as possible strategies, solutions and management. Students are encouraged to develop a personal philosophy on environmental stewardship and interactions. Students will devote considerable energy to a personal choice of internal assessment project which will contribute 25% of their final IB result. These studies will include a mandatory field trip of 3-days/ 2-nights to a nearby island at an additional cost to the student of approximately U.S. \$700 (August year 2). This course may be taken as a Group 3 (Individuals & Societies) course to fulfill IB diploma requirements.

### **IB H2 Environmental Systems and Societies (68112)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Completion of IB HL 1 Environmental Systems and Societies required.*

This second year of the IB HL Environmental Systems & Societies course completes the syllabus, focusing on individual lab work, a 3-day/2-night field trip, and rigorous exam preparation. Students will develop skills crucial for Paper 1, which requires synthesizing information from 8-12 pieces of new data within a previously unseen case study. The course explores the profound impacts of human interaction on Earth's ecological systems, empowering students to develop informed and responsible perspectives on pressing environmental issues relevant to their lives. Key topics include Land, Atmosphere and Climate Change, Natural Resources, and Human Populations and Urban Systems. Throughout the year, students will apply the HL lenses of Environmental Law, Environmental Economics, and Environmental Ethics to deepen their understanding of course content.

### **AP Environmental Science (6818y)**

*One year – 1 credit*

*Grade 11 or 12*

*Prerequisite: Physical Science and Life Science*

AP Environmental Science builds on the Physical Science and Life Science courses taken by JIS 9th and 10th graders. The course is wide-ranging, requiring students to proactively read and review material frequently. Only a proportion of the possible

assessed material is directly covered in class, reflecting AP's equivalence to a college-level course requiring college-style study skills. The language demand is high, with assessments relying on rapid reading for comprehension, and there is a significant mathematical component. The course provides an overview of Earth's ecological systems and the impacts of human activities on them, aiming to equip students with the knowledge to take an informed and responsible stance on a wide range of pressing environmental issues that are relevant to their daily lives. Topics include: biodiversity, resource exploitation, energy and food production, global climate change, pollution, and human population growth and its effects on the environment.

### IB S1 Chemistry (6841y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science*

This is the first year of a two-year program designed to prepare students for the IB Standard Level examination in Chemistry. The following topics are covered: Stoichiometry, Atomic Theory, Periodicity, Bonding, Energetics, Kinetics, and Equilibrium. Emphasis is placed on improving experimental skills and developing the ability to analyze and express scientific ideas. Student investigations and laboratory skills are a significant and important component of the course in preparation for the individual investigation that will be undertaken in Year 2.

### IB S2 Chemistry (6842y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: Satisfactory completion of IB S1 Chemistry*

This is a continuation of IB S1 Chemistry and prepares students for the IB Standard Level examination in Chemistry. The following topics are covered: Acids and Bases, Oxidation - Reduction, Organic Chemistry, and one option from the IB Standard Level syllabus. Emphasis is placed on improving experimental skills and developing the ability to analyze and express scientific ideas. The individual laboratory investigation undertaken in this year forms 20% of the overall IB score.

### IB H1 Chemistry (6845y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science (grade of B or better is HIGHLY recommended). Mathematics 2 is recommended*

This is the first year of a two-year program designed to prepare students for the IB Higher Level examination in Chemistry. The following topics are covered: Atomic Structure, Chemical Bonding, Periodicity, Energetics, Kinetics, Equilibrium, Acids and Bases, and an extension of the mole concept to more complex problems. Emphasis is placed

on improving experimental skills and developing the ability to analyze and express scientific ideas. Student investigations and laboratory skills are a significant and important component of the course in preparation for the individual investigation that will be undertaken in Year 2.

### IB H2 Chemistry (6850y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 Chemistry*

This is the second year of a two-year program that is designed to prepare students for the IB examination in chemistry at the higher level. In this second year of the program, students will study: Oxidation-Reduction, Organic Chemistry, and one of the options from the HL Chemistry syllabus. In so doing, the students will also continue to extend their study of topics already covered in the first year of the course. Emphasis is placed on improving experimental skills and developing the ability to analyze and express scientific ideas. The individual laboratory investigation undertaken in this year forms 20% of the overall IB score.

### Advanced Chemistry (68352s)

*One year – 0.5 credit*

*Grade 10-12*

*Prerequisite: Physical Science (recommended B or higher)*

Advanced Chemistry is a rigorous semester-long preparatory course focused on building a strong foundation in mass, gas and solution stoichiometry, structure and bonding, and analytical laboratory techniques. Advanced Chemistry is the mandatory prerequisite for students planning on taking AP Chemistry in Grade 11 or 12 and is well-suited for students interested in developing the building blocks for future study in Chemistry.

### AP Chemistry (6846y)

*One year – 1 credit*

*Grade 11 or 12*

*Prerequisite: Advanced Chemistry*

This course is designed to be the equivalent of the general chemistry course usually taken during the first year of university. The big ideas taught in AP Chemistry are structure of matter, bonding and intermolecular forces, chemical reactions, kinetics, thermodynamics and chemical equilibrium. The emphasis is on inquiry-based learning, chemical calculations, and the mathematical formulation of chemical principles. The type of laboratory work done by students reflects the investigative nature of the course.

### IB S1 Physics (6861y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science*

This is the first year of a two-year course designed to prepare students for the IB examination in Physics at the Standard level. The course is organized using a problem solving and laboratory approach. Topics covered are Mechanics, Thermal Physics, Waves and Electricity.

### **IB S2 Physics (6862y)**

*One year – 1 credit*

*Grade 12*

*Prerequisite: Satisfactory completion IB S1 Physics*

This second year of a two-year course and is a continuation of IB S1 Physics. It is designed to prepare students for the IB Standard Level Physics examination. Topics covered include: Magnetism, Atomic, Nuclear and Particle Physics, Energy production, and Astrophysics.

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

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science (grade of B or better is HIGHLY recommended) and completion of Mathematics 2*

This is the first year of a two-year course designed to prepare students for the IB examination in Physics at the Higher level. The course is organized using a problem solving and laboratory approach. Topics covered are Mechanics, Thermal Physics, Oscillations and Waves, and Electricity.

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

*One year – 1 credit*

*Grade 12*

*Prerequisite: satisfactory completion of IB H1 Physics*

This is the second year of a rigorous two-year course and it continues the study of the topics which prepare students for the IB Higher Level examination in physics. Topics covered are: Magnetism, Energy production, Atomic, Nuclear and Particle Physics, Quantum and Nuclear Physics, and Astrophysics.

### **AP Physics 1 (6871y)**

*One year – 1 credit*

*Grade 10-12*

*Prerequisite: Physical Science and Life Science. For access in grade 10, grade of A or better in Honors Mathematics 1 is required.*

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy and momentum. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills.

### **AP Physics 2 (68711y)**

*One year – 1 credit*

*Grade 11, 12*

*Prerequisite: AP Physics 1*

AP Physics 2 is also an algebra-based, college-level physics course. However, it delves into some more advanced topics than Physics 1. AP Physics 2 explores fluid statics and dynamics, thermodynamics with kinetic theory, PV diagrams and probability, electrostatics, electrical circuits with capacitors, magnetic fields, electromagnetism, physical and geometric optics, and quantum, atomic, and nuclear physics. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills.

### **AP Physics C - Mechanics (68713s)**

*One year – 0.5 credit*

*Grade 12*

*Prerequisite: AP Physics 1, AP Calculus AB.*

*Students who do not meet the calculus requirement may enroll given the instructor's approval after demonstrating competence in the required skills.*

AP Physics C Mechanics is a semester long calculus-based, college-level physics course especially appropriate for students planning to specialize or major in physical science or engineering. It explores many of the same mechanical concepts as AP Physics 1, but at a much deeper mathematical and conceptual level. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. This course will only be taught 1st semester with co-enrollment in the full year course (68714) and will fully prepare students for the AP Physics C Mechanics exam.

### **AP Physics C - Mechanics and E&M (68714y)**

*One year - 1 credit*

*Grade 12*

*Prerequisite: AP Physics 2, AP Calculus AB.*

*Students who do not meet the calculus requirement, or the AP Physics 2 requirement may enroll given the instructor's approval after demonstrating competence in the required skills.*

AP Physics C Mechanics and E&M is a year long calculus-based, college-level physics course especially appropriate for students planning to specialize or major in physical science or engineering. It explores many of the same mechanical concepts as AP Physics 1 and AP Physics 2, but at a much deeper mathematical and conceptual level. In the first semester devoted to mechanics it covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. The second semester dedicated to electricity and magnetism explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. This course will prepare students for TWO separate AP exams, AP Physics C Mechanics and AP Physics C E&M.

### **AP Physics C - E&M (68716)**

*One semester - 0.5 credit (Semester 2)*

*Grade 12*

*Prerequisite: AP Physics 2, AP Calculus AB. Students who do not meet the calculus requirement, or the AP Physics 2 requirement may enroll given the instructor's approval after demonstrating competence in the required skills.*

AP Physics C E&M is a semester long calculus-based, college-level physics course especially appropriate for students planning to specialize or major in physical science or engineering. It explores many of the same mechanical concepts as AP Physics 2, but at a much deeper mathematical and conceptual level. It is dedicated to electricity and magnetism and explores topics such as electrostatics; conductors, capacitors, dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus are used throughout the course. This course will prepare students for AP Physics C E&M exam.

### IB S1 Computer Science (8809y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science*

S1 is designed to prepare students for the IB Standard Level examination in Computer Science. Topics studied in depth include system fundamentals, computer organization, networks, and object-oriented programming. Development of computational thinking, problem-solving, and programming skills are given significant emphasis. Students programming skills are a key component to successfully build a project required for internal assessment in year two. All IB Computer Science courses are IB Group 4 subjects.

### IB S2 Computer Science (8810y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 Computer Science (8809y)*

S2 is the second year of the IB Computer Science SL. The course designed to prepare students for the IB CS SL examination. Topics studied in depth include advanced object-oriented development, systems design, implementation and evaluation, and a further selected option. Project design and implementation as answer to a client's need is given emphasis. Students are expected to complete a project for the IB CS SL internal assessment. All IB Computer Science courses are IB Group 4 subjects.

### IB H1 Computer Science (8821y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: Physical Science and Life Science (grade of B or better is HIGHLY recommended)*

H1 is the first year of the two-year course designed to prepare students for the IB Higher Level examination in Computer Science. Topics studied in depth include system fundamentals, computer organization, networks, and advanced topics in object-oriented programming. Development

of computational thinking, problem-solving and programming skills are given significant emphasis. Students' programming skills are a key component to successfully build a project required for internal assessment in Year 2. Prior programming experience is required. All IB Computer Science courses are IB Group 4 subjects.

### IB H2 Computer Science (8820y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 Computer Science (8821y)*

H2 is the second year of the IB Computer Science HL. The course is designed to prepare students for the IB CS HL examination. Topics studied in depth include advanced object-oriented development, systems design, system implementation and evaluation, abstract data structures, resource management, control systems, and a further selected option. Project design and implementation as answer to a client's need is given emphasis. Students are expected to complete a project for the IB CS HL internal assessment. All IB Computer Science courses are IB Group 4 subjects.

### AP Computer Science Principles (88302y)

*One year – 1 credit*

*Grades 10-12*

*Prerequisite: Physical Science and Life Science. For access in grade 10, grade of A or better in Physical Science is required.*

*Students who do not meet this requirement may enroll given the instructor's approval after demonstrating competence in the required skills.*

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational and artefacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world.

### AP Computer Science A (88301y)

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: Physical Science and Life Science. Recommended completion of AP Computer Science Principles.*

The course is designed to prepare students for the AP examination in May. AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science through programming,



prior programming experience is recommended. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

### Computer Systems (88306s)

One semester - 0.5 credit

Grade 12

Prerequisite: AP Computer Science A

This course allows students on the AP track to study the computer systems topics covered in IB Computer Science. It explores the following topics through the lens of Java programming: computer architecture (how a processor works), operating systems (how computers run multiple programs), and computer networks (how programs communicate between computers). Assessment will be primarily project based, and lessons will feature hands-on activities that investigate surprising properties of computer systems. The course will be co-scheduled with the first semester of IB H2 Computer Science. The beginning of the term will prepare students to study systems by reexamining the array, method, and primitive data type abstractions covered in AP CS A. Through flipped lessons and programming labs, students will discover the internals of these abstractions and learn advanced programming techniques. Following this, they will join the IB students to study the systems units as a combined class.

### Investigative Science (61110y) (61111s)

One year – 1 credit

Grades 10, 12

One year - 1 credit OR One semester - 0.5 credit

Grades 10-12

Prerequisite: No specific prerequisite. Completion of Physical Science or its equivalent is highly recommended. Completion of at least one semester of science in 10th grade is recommended.

This course is designed for students with an interest in hands-on practical science and wishing to study a science that does not require the sitting of an external examination, such as AP or IB. The core of the course is problem-solving and investigation of topics of the student's choice. The course will emphasize skills rather than content, with the aim of making science relevant to the students and helping them understand and appreciate science in the world around them. The course will begin with the scientific method and investigative techniques – experimental, observation and research. Following this students will have many opportunities to scientifically investigate topics of personal interest using these skills and techniques.

### Food Science (61112s)

One semester - 0.5 credit

Grades 10 - 12

Prerequisite: No specific prerequisite. Completion of Physical Science or its equivalent is recommended.

Food Science is a course which explores basic chemistry concepts in the context of food and its preparation. The course is meant to provide an entry point to science with direct everyday relevance to students' lives, as well as to help budding amateur chefs understand the science behind cooking. Students will be applying their learning regularly in the kitchen, cooking dishes to see the science in action and gaining culinary skills to complement their understanding.

**Important note: While Grade 10s are able to select this Science course, they are reminded that US universities will want at least 2 credits of a lab science which this course does not provide. Furthermore, this science elective is not designed as a preparation course for AP/IB courses in Grade 11/12.**

### Practical Physics (68552s)

One semester - 0.5 credit (Offered every other year).

This course WILL be offered for academic year 2025/26.

Grades 10 - 12

Prerequisite: No specific prerequisite. Completion of Physical Science or its equivalent is recommended.

Practical physics is a semester-long course that focuses on the application of physics concepts to real-world problems and situations. It covers topics such as mechanics, thermodynamics, wave motion, and electromagnetism. The course will focus on hands-on experiments and laboratory work to help students understand and apply the principles of physics and engineering in a practical setting. The course will include problem-solving exercises to give students a deeper understanding of the physical world and how it works, as well as the ability to use physics to make informed decisions.

### Earth & Planetary Science (61113s)

One semester - 0.5 credit (Offered every other year).

This course WILL NOT be offered for academic year 2025/26.

Grades 10 - 12

Prerequisite: No specific prerequisite. Completion of Physical Science or its equivalent is recommended.

Earth and Planetary Science will study the origin of our solar system to further understand Earth and its processes within the context of our planetary neighbours including orbital motion, erosional processes, tectonics and volcanism. Emphasis will be placed on real-world links to how the structure of the Earth helps explain everyday phenomena.

**Important note: While Grade 10s are able to select this Science course, they are reminded that US universities will want at least 2 credits of a lab science which this course does not**

**provide. Furthermore, this science elective is not designed as a preparation course for AP/IB courses in Grade 11/12.**

### Computer Microarchitecture (88303s)

One semester - 0.5 credit (Offered every other year).  
This course WILL NOT be offered for academic year 2025/26.

Grades 11 - 12

Prerequisite: Completion or co-enrollment of AP CS Principles (with instructor approval), AP CS A, or IB Computer Science

Have you ever wondered how computers work? This course will explore the electrical and logical underpinnings of digital computation. Together, we will teach rocks to heed our every instruction through the power of rudimentary physics and elementary mathematics. Topics studied will include computer history, transistor switching behavior, Boolean algebra, logic gates, binary representation, combinational and sequential circuits, fundamental operations, machine language, program execution, and assembly programming. Concepts will be explored via hands-on activities and assessments will include project work that culminates in building a working processor in a simulator and executing custom interactive programs on it.

### Game Design and Development (81910s)

One Semester - 0.5 credit (Arts credit)

Grades 10, 11, 12

Prerequisite: None

This course provides students with a hands-on introduction to the collaborative process of game design and development. Working in project teams, students will learn game design principles including art design, creative writing, game mechanics, marketing and more. Students will work on different aspects of the game development cycle including design, prototyping, production, quality assurance, and release. Working in project teams students will cultivate their teamwork, communication, time management, and leadership skills in a way that few courses allow. Students will be divided into teams based on their relevant skill set.

### Physical Computing (81911s)

One Semester - 0.5 credit

Grades 10, 11, 12

Prerequisite: None

Physical Computing is a learning environment designed to investigate the virtual and creative space where art, computer science, robotics, and neuroscience meet. In this hands-on course, students will explore the intersection of these disciplines by creating interactive projects using hardware such as Arduino, Raspberry Pi, motors, sensors, and modern

programming languages, including Python. This course will provide students with a unique opportunity to understand the relationship between human beings and the digital world while developing valuable transferable skills for creativity, innovation, and problem-solving.

### Robotics Technology 1 (8491s)/Intro to Vex Robotics

One Semester - 0.5 credit (Arts credit)

Grades 9, 10, 11, 12

In this hands-on course, students will research, design, build and program robots using the VEX robotics kits. Working in teams, students will explore a series of projects designed to help each student understand the basic concepts of robotics: Sense, Plan, and Act. Every unit will culminate in an exciting challenge such as the soccer bot and sumobot, putting both robot and human to the test. In addition, we will explore how robots are used in modern society and for scientific research. Robotics: more fun than humans should be allowed to have.

### Robotics Technology 2 (8492s)/Vex Robotics

One Semester - 0.5 credit (Arts credit)

Grades 9, 10, 11, 12

Prerequisite: Introduction to VEX Robotics AND/OR Teacher Approval

Using the concepts and techniques learned in Introduction to VEX Robotics, students will focus on robotics-related mechanisms to complete project-based tasks. This course will include a deeper look into variables and control systems and more complex robotics systems will be explored. This course should also be seen as excellent preparation for students wishing to pursue competitive robotics.

### Robotics Technology 3 (8494s)/Competitive Vex Robotics

One Semester - 0.5 credit FIRST SEMESTER ONLY (Arts credit)

Grades 10, 11, 12

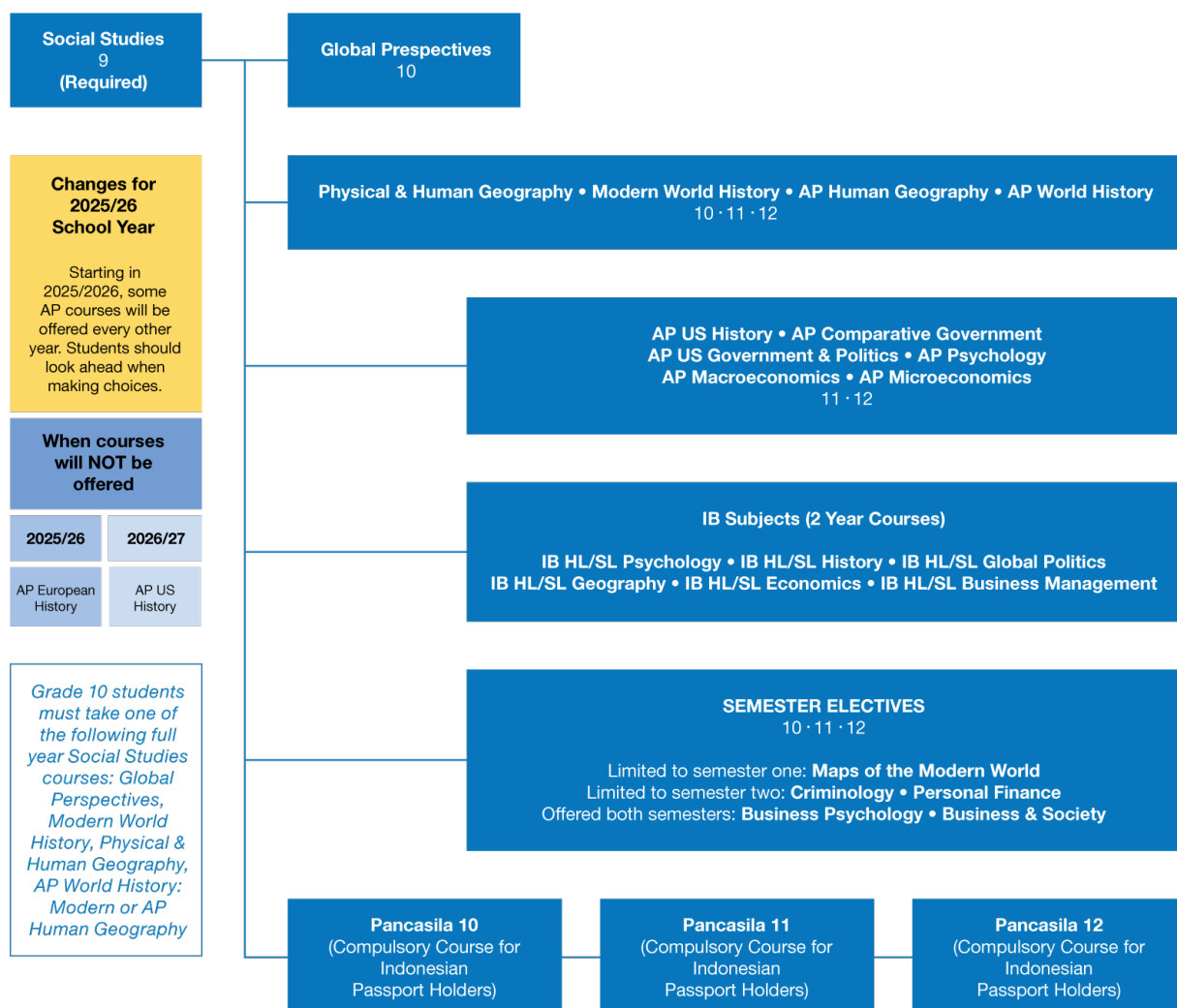
Prerequisite: Teacher Approval as places are limited

Using the concepts and techniques learned in Robotics 2/VEX Robotics, students will design, engineer, and code a robot to compete in the parameters of the annual VEX challenge. Students will work in teams of 4 to 6 throughout the semester to prepare their robot for competition. This course will cover the entire design process iteration.

*\*Students will have the opportunity to travel as a competitive team to international competitions. Travel is not mandatory but encouraged and will have a separate financial expense at the student's cost.*



# SOCIAL STUDIES



## SOCIAL STUDIES

### Department Philosophy

The Social Studies program offers a broad range of subjects: History, Geography, Global Perspectives, Psychology, Economics, and Business Management, all designed to help students better understand their world and role in it. While students may be members of a particular cultural group and inhabit specific environments, the Social Studies program expands their horizons, encouraging them to adopt a global perspective and responsible world citizenship.

*Grade 10 students must take one of the following full year Social Studies courses: Global Perspectives, Modern World History, Physical & Human Geography, AP World History: Modern or AP Human Geography*

### Social Studies 9 (4153y)

One year – 1 credit  
Grade 9

Social Studies 9 is a common ninth-grade course which uses the content of modern World History as

the narrative to explore a range of disciplines social scientists use, including geography, economics and political science. Beginning with the rise of industrialization, this course explores topics from roughly 1750 to the present including imperialism, the World Wars, the Cold War and recent

globalization. There is an emphasis in the course is placed on the development of relevant social studies skills such as analytical writing, source analysis and reasoning skills, giving students the foundation they need for future studies in other Social Studies disciplines.

### Social Studies 9 LE (4154y)

*One year – 1 credit*

*Grade 9*

*Prerequisite: a qualifying score on the WIDA placement exam and/or recommendation from staff*

Social Studies 9 LE mirrors as closely as possible the content covered in Social Studies 9 (see above) and serves the same preparatory function. The chief distinction between the two courses is the greater emphasis on the development of language, with a selection of scaffolding strategies such as clear language objectives, the use of sentence stems, graphic organizers, glossaries, read aloud, word walls among other language building strategies.

### Global Perspectives (4256y)

*One year – 1 credit*

*Grade 10*

*Prerequisite: none*

Global Perspectives incorporates the various social science disciplines in an investigation of the major challenges facing our world today. Students will begin by investigating the history of human rights and attempts by different political systems to ensure those rights. Next, students will turn their attention to the field of social psychology in an attempt to determine why some groups of people are marginalized and discriminated against. In the following unit, students will evaluate the benefits and costs of modern globalization and the sustainability of large multinational corporations. They will also inquire into the efficacy of international organizations to solve the problems associated with globalization, most notably social and environmental degradation. Finally, through a comprehensive study of media literacy, students will understand the power of the media to inform as well as to manipulate, and will explore ways of challenging the media and initiating positive change.

In short, through an inquiry approach, Global Perspectives invites students to explore answers to the following pertinent questions:

- Can political systems ensure rights for all?
- Why do human beings mistreat each other?
- How can we create a sustainable world?
- Does the media inform or manipulate?

Throughout the course special emphasis is placed on the development of relevant social studies skills such as data analysis, debate, analytical writing, public speaking, research methods, and primary source interpretation. Furthermore, students in Global Perspectives will engage in problem-solving activities, group work and the use of technology, which are all essential for students to develop the

skills and attitudes necessary to face the challenges of their dynamic world.

### Personal Finance (4510s)

*One semester – 0.5 credit*

*Grade 10, 11, 12*

*Prerequisite: none*

Understanding and managing personal finance is the key to one's future financial success. In this semester-long elective course, students learn basic principles of business and economics in order to make informed decisions about real-world financial issues and effectively manage their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income, expenses and investment. Real-world topics covered include income, spending and credit, banking, mortgages, as well as saving and investing. Students taking this course will learn to better prepare for their financial futures.

## Geography

### Maps of the Modern World (42602s)

*One semester (limited to semester one) – 0.5 credit*

*Grade 10, 11, 12*

*Prerequisite: None*

This exciting blended online and face to face course is offered in partnership with Georgetown University's School of Foreign Service. This class was created more than a quarter century ago to "banish geographic illiteracy from the School of Foreign Service." The aim is to achieve that goal by cementing the basic physical and political geography of the contemporary world map. Importantly, the class will provide insights to help you construct your own frameworks for understanding current world issues and coming change. In terms of content, this is the exact same course as all Georgetown SFS students are required to take. The only difference is some additional assessment tasks geared around university preparation including a mini-internal assessment.

### AP Human Geography (42702y)

*One year – 1 credit*

*Grade 10, 11, 12*

*Prerequisite: 9th or 10th grade English & Social Studies teacher approval advised*

Students in AP Human Geography will explore how humans have understood, used, and changed the surface of Earth. They will use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use. Students are expected to connect geographic concepts and processes to real-life scenarios, understand information shown in maps, tables, charts, graphs, infographics, images, and landscapes, see patterns and trends in data and in visual sources such as maps and drawing

conclusions from them, and understand spatial relationships using geographic scales.

### Physical & Human Geography (42704y)

One year – 1 credit

Grades 10, 11, 12

Prerequisite: None

This course will focus on the human and physical patterns, trends, and processes and how societies are shaping and affected by our environments and global interactions. The course will focus on building the technical and traditional skills of the geographer while learning about plate tectonics and their hazards, population dynamics, migration, economic development, weather, climate, and ecosystems. There will be an opportunity for fieldwork (pandemic allowing) to gain experience in geographic investigation.

study current issues such as population growth and migration, disparities that exist in wealth and development and how these disparities may be reduced, patterns in environmental quality and how to achieve sustainability, as well as resource consumption and conservation. Students will also conduct a field study related to one of these three themes in order to meet the IB internal assessment requirements. As the course progresses students enhance their reading and writing skills, as well as their ability to interpret and analyze a variety of tables, graphs, diagrams and maps. They also have the opportunity to undertake statistical calculations, and to research, process and interpret data.

*Students and parents should note that, since the field study is an essential component of the course, the trip is mandatory for all students enrolled in the course. The trip usually involves two school days and one day during the weekend and costs approximately USD 600.*

### IB H1 Geography (4810y)

One year – 1 credit

Grade 11

Prerequisite: none

H1 Geography is the first year of the Higher Level IB course. Geography is a dynamic subject that explores the interactions between individuals, societies and the physical environment. Students examine a variety of patterns and trends that are related to these interactions. They develop a strong understanding of key global issues on a range of scales from local to regional, national and international. Students will examine Jakarta's urban environment in order to meet their IB internal assessment requirements. As the course progresses students enhance their reading and writing skills, as well as their ability to interpret and analyze a variety of tables, graphs, diagrams and maps. They also have the opportunity to undertake statistical calculations, and to research, process and interpret data.

*Students and parents should note that, since the Indonesian field study is an essential component of the course, the trip is mandatory for all students enrolled in the course. The trip usually involves two school days and one day during the weekend and costs approximately USD 600.*

### IB H2 Geography (4815y)

One year – 1 credit

Grade 12

Prerequisite: IB H1 Geography

The second year of the Higher Level IB course looks at the impact the developing and developed world have on one another and the economic, environmental, sociocultural and political consequences of their interactions. Geographic skills will continue to be reinforced at this level in preparation for the final IB examination in May. The course provides an excellent foundation for any future college level Humanities and/or Science courses.

### IB S2 Geography (4812y)

One year – 1 credit

Grade 12

Prerequisite: IB S1 Geography

The second year of the Standard Level IB course continues to develop the necessary concepts and knowledge required for the course. Geographic skills will continue to be reinforced at this level in preparation for the final IB examination in May. The course provides an excellent foundation for any future college level Humanities and/or Science courses.

### IB S1 Geography (4811y)

One year – 1 credit

Grade 11

Prerequisite: none

SL Geography is a two-year IB course offered in grades 11 and 12. Geography is a dynamic subject that explores the interactions between individuals, societies and the physical environment. Students examine a variety of patterns and trends that are related to these interactions. They develop a strong understanding of key global issues on a range of scales from local to regional, national, and international. During the course students will

Careers involving Geography include Urban and Regional Planning, Tourism, Geology, Environmental Science, Resource Management, GIS Specialist, Climatologist, Meteorologist, Writer/Researcher.

## History

### Modern World History (42601y)

One year – 1 credit

Grades 10, 11, 12

Prerequisite: none

Modern World History is open to any student in

Grades 10-12. The course challenges students to explore the various political, economic and social factors and forces behind the rise of the modern world, that have helped mould the world we know today. Beginning with the dramatic twin impacts of the French and Industrial revolutions, the course explores world history, with a strong emphasis on phases of Asian and Indonesian history in particular. Students of Modern World History will come out with a solid grasp of the key skills needed for study at further Social Studies levels, such as analytical writing, research methods, source analyses, and various presentation methods.. From Indonesian independence to the First World War to colonial forces to the fall of the Berlin Wall, Modern World History will provide a true appreciation of where we are, where we are from, and where we are going.

### AP World History: Modern (4361y)

*One year – 1 credit*

*Grades 10, 11, 12*

*Prerequisite: 9th or 10th grade English & Social Studies teacher approval advised*

In AP World History: Modern; students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

### AP U.S. History (4360y)

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: 10th grade English & Social Studies teacher approval advised*

*Offered every other year - 2025/26 school year and then again in 2027/28*

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

### AP European History (43611y)

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: 10th grade English & Social Studies teacher approval advised.*

*Offered every other year - 2024/25 school year and then again in 2026/27*

This course gives students the opportunity to study European history since 1450. It introduces students to cultural, economic, political and social developments that played a fundamental role in shaping the world in which they live. The course emphasizes interdisciplinary connections, examining the role that the arts, philosophy, science, and literature influenced political and economic decisions made at the time. 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.

### IB H1 History (4825y)

*One year – 1 credit*

*Grades 11*

*Prerequisite: None*

The 20th Century was a period of global conflict featuring world wars, numerous localized wars and civil wars, as well as the 45 year long Cold War. This course begins with an examination of the causes and effects of World War I. The course then goes on to examine the emergence of authoritarian leaders, first in Europe with the rise of Hitler and then also in Asia with the leadership of Mao, and how these leaders rose to power partially as a result of the conflicts and the peace settlements that ultimately failed to maintain international relations. Topics of detailed study with a focus on document analysis will include the Japanese expansion in East Asia (1931 – 1941) and German and Italian expansion (1933 – 1940) and how expansion and other factors led to World War II. In addition to world wars, students will gain a deeper understanding of the causes, effects and roles of foreign intervention in the Spanish and Chinese civil wars. Furthermore, because this is a Higher level course, students will begin an in depth analysis of Asian history, specifically the topic of: The People's Republic of China (1949 – 2005). Emphasis is placed on analyzing these historical events, use of relevant and detailed historical evidence and historiography in essay writing and document interpretation. In addition, the students, in order to fulfill the IB requirements of the internal assessment, will start an in-depth study of a selected history topic which will be completed in the second year of the course.



**IB S1 History (4821y)***One year – 1 credit**Grade 11**Prerequisite: None*

The 20th Century was a period of global conflict featuring world wars, numerous localized wars and civil wars, as well as the 45 year long Cold War. This course begins with an examination of the causes and effects of World War I. The course then goes on to examine the emergence of authoritarian leaders, first in Europe with the rise of Hitler and then also in Asia with the leadership of Mao, and how these leaders rose to power partially as a result of conflicts and the peace settlements that ultimately failed to maintain international relations. Topics of detailed study with a focus on document analysis will include the Japanese expansion in East Asia (1931 – 1941) and German and Italian expansion (1933 – 1940) and how expansion led to World War II. In addition to world wars, students will gain a deeper understanding of the causes, effects, and roles of foreign intervention in the Spanish and Chinese civil wars. Emphasis is placed on analyzing these historical events, use of relevant and detailed historical evidence and historiography in essay writing and document interpretation. In addition, the students, in order to fulfill the I.B. requirements of the internal assessment, will start an in-depth study of a selected history topic, which will be completed in the second year of the course.

**IB H2 History (4832y)***One year – 1 credit**Grade 12**Prerequisite: IB H1 History*

In year two the course will focus on the Cold War (1945-1991) and how the rivalries between the superpowers led to Cold War crises, which risked nuclear war in different regions of the world. Students will also analyze the causes, nature of and impact of proxy wars; the Korean War (1950-1953), the Vietnam Wars (1946-1954 and 1956-1975), and the Soviet-Afghan War (1979-1989). With an emphasis on the role of leaders, students will evaluate the effectiveness of detente policies and debate who bears responsibility for the end of the Cold War. Furthermore, as a Higher level course, students will continue the detailed study of Asian history, specifically the topics Cold War Conflicts in Asia and of the impact of World War II on Southeast Asia, including the rise of nationalist movements and leaders such as Sukarno and Ho Chi Minh. Students will continue developing their writing skills with a focus on evaluating a variety of perspectives and will complete their internal assessment, a research paper on a chosen area of study.

**IB S2 History (4822y)***One year – 1 credit**Grade 12**Prerequisite: IB S1/H1 History*

In year two the course will focus on the Cold War

(1945-1991) and how the rivalries between the superpowers led to Cold War crises, which risked nuclear war in different regions of the world. Students will also analyze the causes, nature of and impact of proxy wars; the Korean War (1950-1953), the Vietnam Wars (1946-1954 and 1956-1975), and the Soviet-Afghan War (1979-1989). With an emphasis on the role of leaders, students will evaluate the effectiveness of detente policies and debate who bears responsibility for the end of the Cold War. Furthermore, students will continue the study of Asian history, the impact of World War II on Southeast Asia, including the rise of nationalist movements and leaders such as Sukarno and Ho Chi Minh. Students will continue developing their writing skills with a focus on evaluating a variety of perspectives and will complete their internal assessment, a research paper on a chosen area of study.

**Politics****AP Comparative Government (44105y)***One year – 1 credit**Grade 11, 12**Prerequisite: None*

AP Comparative Government allows students to delve into the political structures of China, Iran, Mexico, Nigeria, Russia, and the United Kingdom by examining and comparing their approaches to global and socioeconomic issues. The course explores the themes of power and authority, legitimacy and stability, democratization, internal/external forces, and methods of political analysis through various disciplinary approaches. Students will learn how to define and describe major political concepts, analyze patterns of political processes and behavior and their consequences, and compare and contrast political institutions and processes across countries. Topics of study include political systems, regimes, and governments; political institutions; political culture and participation; party and electoral system and citizen organization; as well as political and economic changes and development.

**AP US Government & Politics (43601y)***One year – 1 credit**Grade 11, 12**Prerequisite: None*

AP U.S. Government & Politics students delve into the American political system's intricacies, exploring the United States government's foundations, principles, and functioning. This course equips students with a comprehensive understanding of the U.S. Constitution, the federal structure, and the political processes that shape the nation. Through in-depth analysis of historical documents, landmark Supreme Court cases, and contemporary political events, students develop critical thinking skills to assess the impact of government policies on society. Emphasis on analytical writing and argumentation prepares students to navigate complex political landscapes and become informed, active citizens.

**IB H1 Global Politics (44101y)***One year – 1 credit**Grade 11**Prerequisite: none*

Global politics is an exciting, dynamic subject that draws on a variety of disciplines in the social sciences and humanities, reflecting the complex nature of many contemporary political issues. The four core units of the course cover: Power, Sovereignty and International Relations, Rights and Justice, Development, and Peace and Conflict. The Internal Assessment task encourages students to actively engage with political issues and ideas outside of the classroom and can take the form of interviews, internships, political simulations and investigations. HL students will investigate multiple global political challenges (like poverty or borders or environment) through additional case study research.

**IB S1 Global Politics (44102y)***One year – 1 credit**Grade 11**Prerequisite: none*

Global politics is an exciting, dynamic subject that draws on a variety of disciplines in the social sciences and humanities, reflecting the complex nature of many contemporary political issues. The four core units of the course cover: Power, Sovereignty and International Relations, Rights and Justice, Development, and Peace and Conflict. The Internal Assessment task encourages students to actively engage with political issues and ideas outside of the classroom and can take the form of interviews, internships, political simulations and investigations.

**IB H2 Global Politics (44103y)***One year – 1 credit**Grade 12**Prerequisite: IB H1 Global Politics*

The second year of the Higher Level IB course continues to develop the necessary concepts and knowledge required for the course. Academic writing and case study research will continue to be reinforced at this level in preparation for the final IB examination in May.

**IB S2 Global Politics (44104y)***One year – 1 credit**Grade 12**Prerequisite: IB S1 Global Politics*

The second year of the Standard Level IB course continues to develop the necessary concepts and knowledge required for the course. Academic writing will continue to be reinforced at this level in preparation for the final IB examination in May.

**Psychology****Business Psychology (48481s)***One semester – 0.5 credit**Grades 10, 11, 12**Prerequisite: none*

Business is about people: for organizations to flourish, managers need to know how to identify and develop the right people, and how to communicate with, lead and motivate them. In this course we will investigate questions such as:

- How do managers at successful companies like Google and Apple motivate their people?
- What forms of leadership are the most effective, and what are the most important factors in teamwork?
- How do leaders use psychology findings to select their applicants and reward their workforce?
- How can we improve the work environment to avoid the dangers of stress and work-related illness?
- What factors influence our decision making?

Students will explore relevant case studies, key research findings and solve real-life work related problems. They will learn how to write their CV, develop their presentation skills and negotiation techniques so that they become inspirational leaders. Students taking Psychology, Economics, or Business Studies may enjoy this course.

**Criminology (48483s)***One year – 0,5 credit**Grades 10, 11, 12**Prerequisite: none*

In this interdisciplinary course, students will explore the field of criminology by examining real-world crimes and cases. Through the analysis of these examples, students will gain a deeper understanding of the theories surrounding human behavior, crime, and punishment. Throughout the course, students will engage in critical discussions and debates, investigating questions such as:

- Are criminals born or made?
- What is the definition of crime and how does it vary across different cultures and societies?
- How do social and economic factors influence crime?
- What are the different theories of criminal behavior and how do they explain the causes of crime?
- How do law enforcement agencies and the criminal justice system respond to and deal with crime?
- What are the various forms of punishment and rehabilitation for offenders and how effective are they?
- What are the current issues and debates in criminology and criminal justice?
- How does crime and justice vary cross-nationally?



**AP Psychology (4848y)***One year – 1 credit**Grades 11, 12**Prerequisite: none*

Advanced Placement Psychology introduces students to the systematic and scientific study of human behavior and mental processes. Equivalent to an introductory college-level course, the curriculum is organized into five key units: biological bases of behavior, cognition, development and learning, social psychology and personality, and mental and physical health. Students explore foundational theories, research methods, and ethical principles while applying psychological concepts to real-world scenarios.

**IB H1 Psychology (4840y)***One year – 1 credit**Grade 11**Prerequisite: none*

This course is the first year of the two-year IB Higher level syllabus. IB Psychology at Higher level is offered to students who have an interest in the systematic study of human behavior and mental processes. Through scientific study and research, psychology explores health and well-being, human development, human relationships as well as learning and cognition. Students will study these contexts by understanding behavior through different approaches: the biological, social, cognitive and cultural influences on behavior. Students will also study research methods by engaging in conducting research and will learn to conduct an interview, naturalistic observation, a questionnaire or survey as well as an experiment.

**IB S1 Psychology (4846y)***One year – 1 credit**Grade 11**Prerequisite: none*

This course is the first year of the two-year IB Higher level syllabus. IB Psychology at Standard Level is offered to students who have an interest in the systematic study of human behavior and mental processes. Through scientific study and research, psychology explores health and well-being, human development, human relationships as well as learning and cognition. Students will study these contexts by understanding behavior through different approaches: the biological, social, cognitive and cultural influences on behavior. Students will also study research methods by engaging in conducting research and will learn to conduct an interview, naturalistic observation, a questionnaire or survey as well as an experiment.

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

The second year of Higher Level psychology expands on students' existing knowledge of the core approaches to include two psychological options, from a choice of Abnormal, Developmental, Health, and/or Human Relationships. The theory relating to qualitative research methods in psychology is examined as an additional unit of study. Internal assessment (20% of the final grade) requires students to partially replicate one experiment in psychology by conducting the study, analysing the data using inferential statistics and reporting on the findings.

**IB S2 Psychology (4847y)***One year – 1 credit**Grade 12**Prerequisite: IB S1 Psychology*

The second year of Standard Level psychology expands on students' existing knowledge of the core approaches to include one psychological option, from a choice of Abnormal, Developmental, Health, Human Relationships and Sport Psychology. Internal assessment (25% of the final grade) requires students to partially replicate one experiment in psychology by conducting the study, analyzing the data using descriptive statistics and reporting on the findings.

## Business & Economics

**Business and Society (4071s)**

*One semester– 0.5 Either Social Studies credit OR Elective credit (students can nominate this course for either but not both)*

*Grades 10, 11, 12**Prerequisite: None*

Business and Society is an interdisciplinary course for students in Grades 10, 11, or 12 who are interested in understanding the foundations of the relationship between businesses and their effects on society. This is a project based course where students develop marketing plans that incorporate social media and other business communication tools. By the end of the course students will develop business plans and some may choose to develop these into actionable plans for real-life businesses. Students will also learn about business financing and strategic planning. Students should be prepared to present in group settings and work collaboratively with both JIS internal and external business partners.

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

This IB course provides students with an in-depth understanding of the ways in which individuals and groups interact in a dynamic business environment.

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

### IB S1 Business Management (4871y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: None*

IB Business and Management at Standard Level is designed to give students a foundation in management principles, practices, and skills and to develop an awareness of the ethical and social responsibility issues that exist in business and other organizations both domestically and internationally. Emphasis is also placed on understanding the business functions of marketing, human resource management, and finance. Students will be able to make sense of the forces that affect our multicultural business world. Finally, in order to apply their knowledge and skills to real world situations, students examine case studies and significant decisions in business history. This course represents the first year of a two-year program leading to the IB Business and Management Standard Level examination.

### IB H2 Business Management (4875y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 Business and Management*

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

### IB S2 Business Management (4871y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 Business and Management*

In the second year, the students continue the rigorous and critical study of the ways in which individuals and groups interact in a dynamic business environment. It is an academic discipline that examines how business decisions are made and the impact of these decisions on internal and external environments. Business and Management provides students with the skills to make sense of the circumstances that drive change in an interdependent and multicultural world. Emphasis is placed on the ideals of international cooperation and responsive citizenship. This course extends the concepts of the Year 1 course with respect to acquisition of skills and knowledge. The Standard Level course is designed for any students who have an interest in the world around them and who wish to develop skills of analysis and evaluation that they can apply to international real-world situations.

### AP Macroeconomics (4859y)

*One year – 1 credit*

*Grades 11, 12*

*Prerequisite: None*

This course introduces students to the field of economics via macroeconomics. Through taking this course students will gain an excellent understanding of the factors affecting the level of economic activity in nations, and the economic policy making that can be conducted to improve nations' living standards. Together with the short-term trade off between unemployment and inflation, the course also covers the recent shift in macroeconomic emphasis from ad hoc attempts to steer the economy with fiscal and/or monetary policies, to setting the right policy conditions for long run stability and growth. Students will be assessed by the AP College Board with an external examination in May. This course specifically prepares students for the AP Macroeconomics examination and there is an expectation that students will take this exam.

### AP Microeconomics (4860y)

*Each year – 1 credit*

*Grades 11, 12*

*Prerequisite: (strongly recommended to take AP Macroeconomics first)*

This course provides an excellent foundation for the future college level study of microeconomics. Building from the introductory microeconomic concepts students have covered in the macroeconomics course, students will examine in detail of economic behavior of individuals, firms, and markets. It begins with consumer theory, examining why people like goods and services and how they behave. It progresses to firm theory (e.g. production and costs), exploring such concepts as diminishing marginal productivity and economies of scale, as

well as examining particular market types such as price takers, monopolies, and oligopolies. The course closes with capital and resource markets (e.g. wages, benefits, income, as well as natural resources). It often includes special applications such as market failures (e.g. externalities, public goods, information problems which are at the heart of many business/government and environmental issues), poverty, health care, education, social security, etc. This course specifically prepares students for the AP Microeconomics examination and there is an expectation that students will take this exam.

### IB H1 Economics (4854y)

*Each year – 1 credit*

*Grade 11*

*Prerequisite: None.*

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

### IB S1 Economics (4851y)

*One year – 1 credit*

*Grade 11*

*Prerequisite: None*

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

### IB H2 Economics (4865y)

*Each year – 1 credit*

*Grade 12*

*Prerequisite: IB H1 Economics.*

The modern world economy binds together all regions of the globe, from the very rich to the very poor. Globalization and its effects on the world is just one of the many micro topics that are strategically analyzed in this class. While it is

extremely important to understand the "big picture" particular emphasis is placed on how financial institutions work, how wealth is created and distributed, how economics relates to politics, and how the global economy works that ties together everyone on the planet. This course provides an excellent foundation for future college level study of both macro and microeconomics. Students may elect to take the IB Higher level and/or AP Macro/Micro economics examinations after completing the two-year Higher Level study program of economics.

### IB S2 Economics (4853y)

*One year – 1 credit*

*Grade 12*

*Prerequisite: IB S1 Economics*

This second year of the standard course covers the final two of the four broad sections of the IB economics syllabus: international issues and development economics. We seek to understand the modern world economy and how it binds together all regions of the globe, and how countries are interconnected through trade and financial flows in which changes in one country can impact other countries far removed. We learn how the economic conditions and living standards of populations throughout the globe differ wildly, development economics will seek to understand why and provide economic solutions to improving living standards of the populations of the world.

## Pancasila

### Pendidikan Pancasila dan Kewarganegaraan (PPKn) 10 (43307y)

*One year – 0.5 credit*

*Grades 10*

This course is mandatory for all Grade 11 Indonesian passport-holders. Students will explore further into topics pertaining to Pancasila, the state philosophy, and the values that shape Indonesia. Students will also learn about human rights and citizenship issues in line with the Indonesian national curriculum.

### Pendidikan Pancasila dan Kewarganegaraan (PPKn) 11 (43305y)

*One semester– 0.5 credit*

*Grades 11*

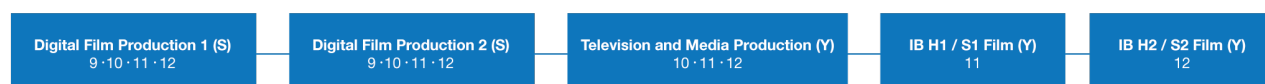
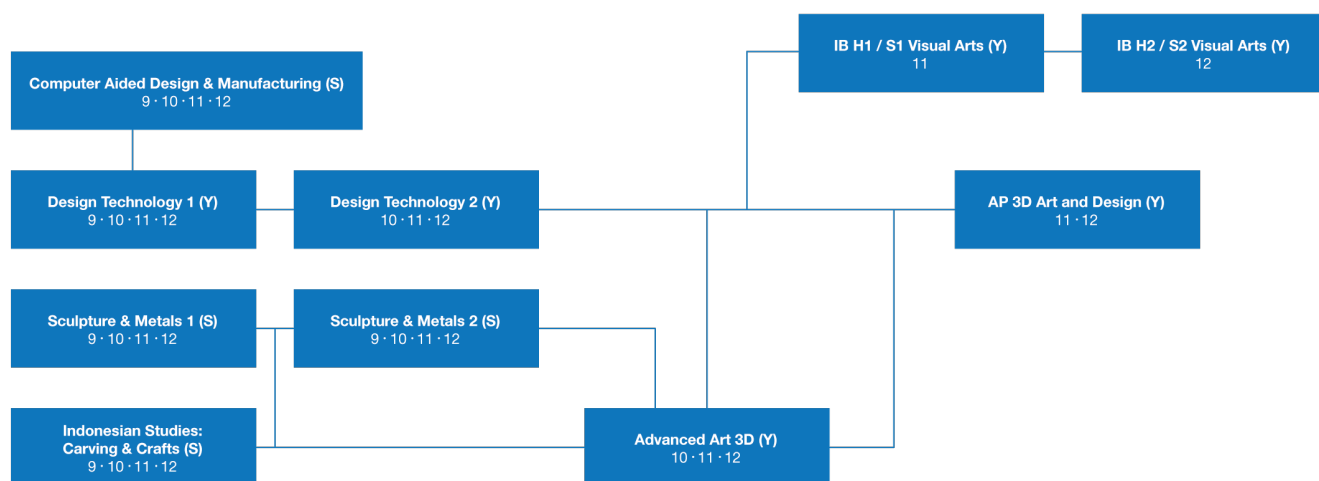
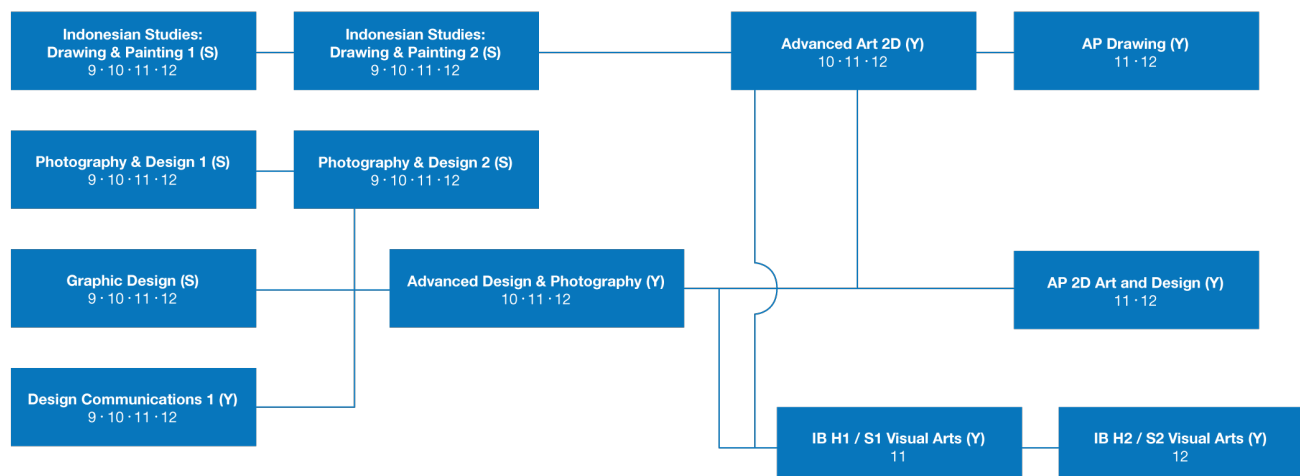
This course is mandatory for all Grade 11 Indonesian passport-holders. Students will explore further into topics pertaining to Pancasila, the state philosophy, and the values that shape Indonesia. Students will also learn about human rights and citizenship issues in line with the Indonesian national curriculum.

**Pendidikan Pancasila dan  
Kewarganegaraan (PPKn) 12 (43306y)***One semester– 0.5 credit**Grades 12*

This course is mandatory for all Grade 12 Indonesian passport-holders. Students will explore further into topics pertaining to Pancasila, the state philosophy, and the values that shape Indonesia. Students will also learn about human rights and citizenship issues in line with the Indonesian national curriculum.

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## VISUAL ARTS COURSES



# VISUAL ARTS

## VISUAL ARTS COURSES

The JIS Visual Arts Program is designed to ensure an enjoyable, progressively challenging, and differentiated art education for all high school students. Building upon artistic learning at the middle school level, high school visual arts courses will gradually become more intensive while strengthening and developing the art student's artistic foundation. While an abundance of materials, tools and equipment are available, art students choosing to use materials above and beyond the provided general supplies will be expected to either provide or pay appropriate costs.

Photography and Design classes rely solely on advanced technology hardware and software designed for creative purposes. Digital SLR cameras are provided for class use as well as off-campus checkout opportunities. Students are not held responsible for supplying curricular equipment, but they are held accountable for lost or damaged equipment. The appropriate software will be installed into the student's MacBook Air.

Before choosing International Baccalaureate (IB) Visual Arts and/or Advanced Placement (AP) Art and Design, it is highly recommended that art students complete a minimum of three (3) semesters of JIS high school visual art classes while earning top grades in every art class. Art students interested in IB Visual Arts and/or AP Art and Design should prepare a portfolio of accomplished work spanning the past three years. Portfolios will be shared with a JIS high school visual arts teacher for evaluation to ensure appropriate course placement. If clarification is needed, a student/Teacher meeting will be arranged by the art teacher.

### **Indonesian Studies: Drawing and Painting 1 (38874s) (MoE APPROVED)**

*One semester - 0.5 credit and 0.5 MoE Indonesian Studies Requirement Credit for Non-Indonesian Passport Holders*

*Grades: 9, 10, 11, 12*

This fun one-semester course aims to develop the art student's drawing and painting techniques through direct connections and influences involving Indonesian Culture. Within a curriculum emphasizing Indonesian drawing and painting techniques, art students will work from direct observation, researched images, and imagination. Visual arts techniques and concepts are explored while developing a stronger understanding of the elements of art and principles of design. Connections to historically valued and contemporary Indonesian artists will strengthen the student's holistic understanding of our host country. Where appropriate in the course, students will incorporate technology into their artistic learning. A visual journal will be created for documenting his or her Indonesian Studies journey from initial design ideas to the completion of final Indonesian inspired artworks each concluding with a self-evaluation using the 'Elements of Art and Principles of Design.

### **Indonesian Studies: Drawing and Painting 2 (38875s) (MoE APPROVED)**

*One semester - 0.5 credit and 0.5 MoE Indonesian Studies Requirement Credit for Non-Indonesian Passport Holders*

*Grades: 9, 10, 11, 12*

Prerequisite:

- Indonesian Studies: Drawing and Painting 1 or
- Interview / Portfolio Review by high school VA Teacher or VA HoD

This advancing fun one-semester course aims to develop the art student's drawing and painting techniques through direct connections and influences with Indonesian Culture. Within a curriculum emphasizing Indonesian drawing, batik, and painting techniques, art students will work from direct observation, researched images, and imagination. Visual arts techniques and concepts are explored while developing a stronger understanding of the elements of art and principles of design. Increased understanding of historically valued and contemporary Indonesian artists founded in Indonesian Studies: Art and Culture 1 will increasingly strengthen the student's holistic understanding of our host country. Where appropriate in the course, students will incorporate technology into their artistic learning. A visual journal will be created for documenting his or her Indonesian Studies journey from initial design ideas to the completion of final Indonesian inspired artworks each concluding with a self-evaluation



using the 'Elements of Art and Principles of Design.' This course is highly recommended for art students interested in Advanced Art 2D, AP Drawing, AP 2D Art and Design, and IB Visual Arts.

### Photography and Design 1 (96411s)

*One semester - 0.5 credit*

*Grades 9, 10, 11, 12*

In this course, students refine their photography skills using DSLR and mirrorless cameras, gaining mastery over manual settings and composition techniques. They learn to control shutter speed, ISO, and aperture to achieve creative and technical precision in their images. With a strong focus on the elements of art and principles of design, students explore how composition shapes meaning and enhances visual storytelling. Through hands-on experience with professional editing software, students develop proficiency in Adobe Lightroom for organizing, editing, and exporting their work. All enrolled students will have access to Nikon cameras and Adobe Creative Suite licenses to support their learning. The curriculum begins with an introduction to digital photography and progressively advances through technical and artistic techniques. As they experiment with various photographic styles and methods, students develop both technical expertise and a personal artistic vision.

### Photography and Design 2 (96412s)

*One semester - 0.5 credit*

*Grades 9, 10, 11, 12*

*Prerequisite:*

- *Photography and Design 1*  
or
- *Interview / Portfolio Review by high school VA Teacher or VA HoD*

This course builds upon the skills and concepts introduced in Photography & Design 1, providing students with an opportunity to further explore the artistic potential of digital photography. With a strong emphasis on photography as a fine art discipline, students experiment with a range of creative techniques, including cyanotypes, collage and composite photography, and pinhole camera construction. They also develop proficiency in studio lighting, using shadows and reflections to enhance portraits and still-life compositions. As the course progresses, students undertake a personal photographic project, refining their unique visual voice by conveying ideas through imagery. Adobe Lightroom and Photoshop are integral to the curriculum, and all enrolled students receive software licenses and have access to Nikon cameras to support their work. By the end of the semester, students will have built a strong foundation in digital arts, preparing them for Advanced Design and Photography, AP 2D Art and Design, or IB Visual Arts.

### Indonesian Studies: Carving and Crafts (3889s) (MoE APPROVED)

*One semester - 0.5 credit and 0.5 MoE Indonesian Studies Requirement Credit for Non-Indonesian Passport Holders*

*Grades: 9, 10, 11, 12*

This exciting one-semester course aims to develop the student's appreciation and awareness of a variety of Indonesia's ancient and contemporary Cultures and the crafts those cultures create. Students will learn about traditional myths, motifs and techniques for incorporating those motifs into wooden objects. Students will learn to apply the design cycle and use different technologies like laser cutters, 3D modeling software and different power tools to make their own wooden creations. As students learn different woodworking and carving techniques, they will further develop their ability to analyze cultural works from the Indonesian Archipelago in terms of the elements of art and principles of design.

### Sculpture and Metals 1 (96511s)

*One semester - 0.5 credit*

*Grades: 9, 10, 11, 12*

This fun one-semester course specializes in the design and production of 3D (three-dimensional) artworks. Final artworks will include traditional sculpture, ceramic, and jewelry formats. The mediums utilized in this course includes, but are in no way limited to; clay, wire, metals, natural materials, styrofoam, found objects, wood, etc. Creative assignments are designed to enhance the understanding of and ability to complete self-evaluations using the 'Elements of Art and Principles of Design.' A visual journal documents the learning of the students in his or her journey towards the initial ideas for the completion of final artworks.

### Sculpture and Metals 2 (96512s)

*One semester - 0.5 credit*

*Grades: 9, 10, 11, 12*

*Prerequisite:*

- *Sculpture and Metals 1*  
or
- *Indonesian Studies: Carving and Crafts*

This advancing fun one-semester course specializes in the design and production of 3D (three-dimensional) artworks. Techniques and styles learned in Sculpture and Metals 1 are utilized in this advanced level course and will incorporate mediums including, but are in no way limited to; clay, wire, metals, natural materials, styrofoam, found objects, wood, etc. Creative assignments are designed to enhance the student's understanding and use of the elements of art and principles of design. Where appropriate in the course, art students will incorporate technology into their approach. A visual journal documents the student's journey towards the initial ideas for the completion of final artworks. This course is highly recommended for art students interested in Advanced Art 3D, AP 3D Art and Design, or IB Visual Arts.

## Design Communication 1 (9415y)

One year - 1 credit

Grades 9, 10, 11, 12

This is a study of visual communication in both digital and physical design promoting ideas and information through Digital Media. Following the design process, students will learn to use a wide range of Graphic Design methods and effectively convey ideas, message, and concepts through visual and design elements to engage, inform, and inspire a specific audience. Examples of student experiences include digital graphic design projects utilizing industry-standard software and physical graphic design projects aligned with current trends in the design industry.

## Computer Aided Design and Manufacturing (88305s)

One Semester - 0.5 credit

Grades 9, 10, 11, 12

Computer-Aided Design and Manufacturing (CAD CAM) is a semester-long course that immerses students in digital design and fabrication. The course is divided into two main areas of focus. In the first half, students will use Adobe Illustrator to create vector-based designs and manufacture parts using a laser cutter. In the second half, they will learn Fusion 360, developing 3D models and producing their own products or components with 3D printers. This course is ideal for students who want to explore computer-based design and manufacturing, whether for academic projects in Design & Technology and Robotics or for extracurricular activities requiring custom-made parts. While some simple workshop tools will be used, most of the fabrication will be completed digitally.

## Graphic Design (84801s)

One semester - 0.5 credit

Grades 9, 10, 11, 12

This semester course allows students to use the Adobe Creative Suite applications to create both bitmap and vector graphics. Using this industry standard software, students create digital artwork that is suitable for stand-alone presentations or for use within web designs, print media, or other digital designs. The class will take students from the basics of digital creation to create interesting and informative compositions. The course includes a mixture of instructor-led activities and independent learning with culmination projects of the student's designs for a given brief. Prior experience in the software is not expected and the only prerequisite for the course is a willingness to explore and create.

## Design Technology 1 (9430y)

One year - 1 credit

Grades 9, 10, 11, 12

Design Technology 1 requires students to determine needs or problems in their environment, analyze

and evaluate existing products and systems, and suggest their own alternative solutions to perceived needs. Students develop their ideas graphically, using CAD software or pencil drawings, then plan how to manufacture their solution including selecting appropriate materials and techniques. Depending on the project, students may produce a prototype or model using the latest available equipment and technology as used in Industry, before making a full sized piece. Students will pursue the design process as practiced by professional designers. Design Technology 1 concentrates on projects that can be made mostly using wood, MDF or plastics. There is an emphasis on learning techniques of wood joinery and becoming skilled in the use of traditional hand or powered tools found in a wood shop.

## Design Technology 2 (9435y)

One year - 1 credit

Grades 10, 11, 12

Prerequisite: Design Technology 1

This course is a continuation of Design Technology 1 and will follow the same course structure; to develop projects utilizing more advanced manufacturing techniques and a greater knowledge of materials and equipment. Design Technology 2 focuses on projects utilizing predominantly metals, metalworking engineering techniques and equipment. Students will also be encouraged to develop projects that tie together woodworking techniques from Design Technology 1 and metals. All course projects can be developed on an incline of difficulty/complexity and will be continually assessed. This course is intended for students interested in Engineering, Architecture or Graphic Design. Earning an "A" average would be an indicator the student is prepared for IB H1 Visual Art or AP Art & Design: 3D Design. Upon teacher recommendation, this course may be taken for a second time.

## Advanced Art 2D (96602y)

Grades 10, 11, 12

One year - 1 credit or Semester 1 only - 0.5 credit

Prerequisite:

- Indonesian Studies: Drawing and Painting 2 or
- Interview / Portfolio Review by high school VA Teacher or VA HoD

Advanced Art 2D is designed for students who are passionate about taking their basic art skills and knowledge to the next level. Students will refine their skills in drawing, painting, collage, illustration, and digital media while exploring advanced techniques and concepts. The curriculum emphasizes creative problem-solving, personal expression, and portfolio development, preparing students for college-level art studies such as AP Drawing, AP 2D Art and Design, and IB Visual Art. Projects will focus on composition, color theory, design, medium techniques, and knowledge of multiple art forms. Students will also maintain a visual journal to document their creative process and inspiration

for the creation of their Studio Work. This course is ideal for students seeking to elevate their artistic abilities and build a competitive art portfolio.

### Advanced Art 3D (96603s)

Grades 10, 11, 12

One year - 1 credit or Semester 1 only - 0.5 credit

Prerequisite:

- Minimum two semesters completed of the below foundation courses
- Sculpture and Metals 1
- Sculpture and Metals 2
- Indonesian Studies: Carving and Crafts
- Design Technology 1
- or
- Interview / Portfolio Review by high school VA Teacher or VA HoD

Advanced Art 3D is designed for students who are passionate about taking their basic art skills and knowledge to the next level. Students will refine their skills in additive and subtractive sculptures using materials such as clay, metal, wood, wire, foam, and found objects while exploring advanced techniques and concepts. The curriculum emphasizes creative problem-solving, personal expression, and portfolio development, preparing students for college-level art studies such as AP 3D Art and Design and IB Visual Art. Projects will focus on composition, design, medium techniques, and knowledge of multiple art forms. Students will also maintain a visual journal to document their creative process and inspiration for the creation of their Studio Work. This course is ideal for students seeking to elevate their artistic abilities and build a competitive art portfolio.

### Advanced Design and Photography (96413y)

One year - 1 credit

Grades 10, 11, 12

Prerequisite:

- Minimum two semesters completed of the below foundation courses
- Photography and Design 1
- Photography and Design 2
- Graphic Design
- Design Communications 1 or
- Interview / Portfolio Review by high school VA Teacher or VA HoD

Advanced Design and Photography builds on the foundational concepts introduced in Graphic Design, Photography, and Design Communications. This course is designed to enhance students' technical and creative skills while preparing them for advanced coursework such as AP 2D Art and Design and IB Visual Arts. Through hands-on projects and critical exploration, students will refine their artistic vision, develop a professional portfolio, and gain confidence in applying advanced techniques in both design and photography.

### AP Drawing (98254y)

One year - 1 credit

Grades 11, 12

Prerequisite:

- Interview / Portfolio Review by high school Art Teacher or Visual Arts HoD
- Highly Recommended:
- Indonesian Studies: Drawing and Painting 2
- Advanced Art 2D

AP Drawing is an intensive, fast-paced course designed to prepare students for the rigors of college-level art. Over eight months, students are required to produce a portfolio of eight to ten artworks, culminating in a final submission to AP Central. The Sustained Investigation portfolio explores and visually conveys a cohesive, student-chosen theme. The Selected Works portfolio demonstrates technical skill and conceptual depth. To succeed in this course, students must manage their time effectively and be prepared to dedicate significant effort both inside and outside scheduled classes. Prior art experience is critical for students entering the program. Successful completion of two to three high school art courses is highly recommended, as well as a solid understanding of the 'Elements of Art' and Principles of Design.'

Final submission includes 15 Sustained Investigation images that explore a cohesive, student-chosen theme and 5 selected exemplar works that demonstrate technical mastery. Students are encouraged to push beyond their comfort zones by exploring abstract, observational, and inventive compositions. They are expected to demonstrate a high level of technical skill while engaging with complex artistic concepts. The course fosters the development of "college-level" mastery in composition, execution, and the use of various tools and mediums. Students are also encouraged to approach their work with diligence, as the program's pace requires consistent production and self-discipline

### AP 2D Art and Design (98255y)

One year - 1 credit

Grades 11, 12

Prerequisite:

- Interview / Portfolio Review by high school Art Teacher or Visual Arts HoD
- Highly Recommended:
- Indonesian Studies: Drawing and Painting 2
- Graphic Design
- Design Communications
- Photography and Design 2
- Advanced Art 2D
- Advanced Design & Photography

The AP 2D Art and Design course is a rigorous, fast-paced program equivalent to a first-year college art class. Over eight months, students will develop a portfolio of eight to ten artworks that culminate in a final submission to AP Central. The Sustained Investigation portfolio explores and visually conveys a cohesive, student-chosen theme. The Selected Works portfolio demonstrates technical skill and conceptual depth. The course requires consistent effort, strong time management, and dedication, as students will need to complete a significant portion of their work outside of class.

Students entering AP 2D Art and Design are highly encouraged to have completed two to three high school art courses and possess a solid understanding of the 'Elements of Art and Principles of Design.' This foundational knowledge is essential for solving creative problems and creating sophisticated, college-level work. The course emphasizes a broad range of two-dimensional approaches, including photography, digital media, printmaking, drawing, painting, and collage, allowing students to explore traditional and contemporary art-making methods.

### AP 3D Art and Design (98256y)

One year - 1 credit

Grades 11, 12

Prerequisite:

- Interview / Portfolio Review by high school Art Teacher or Visual Arts HoD
- Highly Recommended:
- Sculpture and Metals 2
- Advanced Art 3D
- Design Technology 2

AP 3D Art and Design is an intensive, fast-paced course designed to prepare students for the demands of college-level art and design. Over eight months, students are required to create a portfolio of three-dimensional works, culminating in a final submission to AP Central. The Sustained Investigation portfolio explores and visually conveys a cohesive, student-chosen theme. The Selected Works portfolio demonstrates technical skill and conceptual depth. Success in this course requires effective time management and a commitment to producing high-quality, innovative work both in and outside of class. Students are strongly encouraged to have completed two to three high school art courses and possess a solid understanding of the 'Elements of Art and Principles of Design' as they relate to three-dimensional forms.

Students are encouraged to explore a variety of three-dimensional processes, such as sculpture, ceramics, installation art, product design, and assemblage. The course emphasizes experimentation and problem-solving, challenging students to use space, form, surface, and materials effectively to create dynamic and meaningful works of art.

This program fosters the development of "college-level" mastery in concept, composition, and execution. Students will refine their technical skills and develop their understanding of spatial relationships, innovative material use, and design principles. Each project is accompanied by thorough documentation of the creative process, which is assessed alongside the artworks to evaluate growth, critical thinking, and the ability to communicate ideas visually and spatially. Given the rigorous nature of the course, students are expected to approach their work with diligence, discipline, and consistency.

### IB H1 Visual Arts (9820y)

One year - 1 credit

Grade 11

Prerequisite:

- Interview / Portfolio Review by high school Art Teacher or Visual Arts HoD
- Highly Recommended:
- Indonesian Studies: Drawing and Painting 2
- Photography and Design 2
- Advanced Art 2D
- Advanced Design & Photography
- Design Technology 2

The first year of the two-year International Baccalaureate (IB) Higher Level (HL) Visual Arts course is designed for students with a strong passion for visual arts and a commitment to deepening their artistic knowledge and practice. This rigorous program prepares students for advanced study at the college or university level. Students are encouraged to have completed a minimum of three (3) semesters of JIS high school visual art classes and a solid foundation in the 'Elements of Art and Principles of Design,' ideally gained through prior high school art courses. The curriculum emphasizes experimentation with diverse mediums and techniques, including fine art, digital art, and sculpture, fostering the development of a personal artistic voice and intellectual growth.

The course is organized around three core components. The Comparative Study is a written analysis of three professional artworks, exploring their context, techniques, and significance within historical and contemporary art movements. The Process Portfolio documents artistic exploration, experimentation, and reflection, showcasing the student's creative journey and growth. The Exhibition features a curated selection of three to four artworks created using advanced techniques, reflecting the student's ability to push creative boundaries.

In the second semester, students focus on their Process Portfolio and Exhibition, applying professional techniques while exploring innovative approaches to their work. The Process Portfolio serves as a critical tool for tracking artistic development and informs the final IB assessment. Throughout the course, students are challenged to demonstrate university-level artistic skills, conceptual thinking, and an understanding of both practical and theoretical aspects of art. By the end of the two years, students will have developed a comprehensive body of work that showcases their artistic mastery, positioning them for future academic or professional success in the visual arts.

### IB S1 Visual Arts (9811y)

One year - 1 credit

Grade 11

Prerequisite:

- Interview / Portfolio Review by high school Art Teacher or Visual Arts HoD
- Highly Recommended:
- Indonesian Studies: Drawing and Painting 2
- Photography and Design 2
- Advanced Art 2D
- Advanced Design & Photography
- Design Technology 2



The first year of the two-year International Baccalaureate (IB) Standard Level (SL) Visual Arts course is designed for students with a passion for visual arts but not focused on pursuing visual arts at the college or university level. Students are encouraged to have completed a minimum of two (2) semesters of JIS high school visual art classes and a solid foundation in the 'Elements of Art and Principles of Design,' ideally gained through prior high school art courses. The curriculum emphasizes experimentation with diverse mediums and techniques, including fine art, digital art, and sculpture, fostering the development of a personal artistic voice and intellectual growth.

The course is organized around three core components. The Comparative Study is a written analysis of three professional artworks, exploring their context, techniques, and significance within historical and contemporary art movements. The Process Portfolio documents artistic exploration, experimentation, and reflection, showcasing the student's creative journey and growth. The Exhibition features a curated selection of three to four artworks created using advanced techniques, reflecting the student's ability to push creative boundaries.

In the second semester, students focus on their Process Portfolio and Exhibition, applying professional techniques while exploring innovative approaches to their work. The Process Portfolio serves as a critical tool for tracking artistic development and informs the final IB assessment. Throughout the course, students are challenged to demonstrate university-level artistic skills, conceptual thinking, and an understanding of both practical and theoretical aspects of art. By the end of the two years, students will have developed a comprehensive body of work that showcases their artistic mastery, positioning them for future academic or professional success in the visual arts.

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

*One year - 1 credit*

*Grade 12*

*Prerequisite: IB H1 Visual Arts*

In the second year of the two-year International Baccalaureate (IB) Higher Level (HL) Visual Arts course, students are expected to build upon the practical and research work completed during the first year. IB H2 Visual Arts students are encouraged to become increasingly independent, self-motivated, and self-critical while focusing on the development of a cohesive portfolio of eight to eleven Exhibition artworks. Artworks must visually convey thematic exploration centered around a chosen theme or topic, reflect the student's artistic voice, and demonstrate mastery of learned skills.

Throughout the year, students continue to refine and expand their twenty-five screen Process Portfolio. The portfolio must include documented artist research, experimentation, technical growth, and conceptual exploration. The portfolio demonstrates their creative journey and development as reflective and critical thinkers.

As the course concludes, students will curate their Exhibition artworks and complete an accompanying Curatorial Rationale. This rationale articulates the intentions, decisions, and conceptual framework behind the body of work, providing insight into the student's artistic process and vision.

To complete the course, students will prepare digital submissions of their Comparative Study, Process Portfolio, Exhibition, and Curatorial Rationale for upload to the International Baccalaureate Organization (IBIS). These submissions will be externally assessed to evaluate the student's artistic growth, technical skill, and ability to communicate ideas through visual art.

This final year challenges students to achieve a high level of artistic and conceptual mastery, preparing them for further studies in the arts or other creative fields.

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

*One year - 1 credit*

*Grade 12*

*Prerequisite: IB S1 Visual Arts*

In the second year of the two-year International Baccalaureate (IB) Standard Level (SL) Visual Arts course, students are expected to build upon the practical and research work completed during the first year. IB S2 Visual Arts students are encouraged to become increasingly independent, self-motivated, and self-critical while focusing on the development of a cohesive portfolio of six to seven Exhibition artworks. Artworks must visually convey thematic exploration centered around a chosen theme or topic, reflect the student's artistic voice, and demonstrate mastery of learned skills.

Throughout the year, students continue to refine and expand their eighteen screen Process Portfolio. The portfolio must include documented artist research, experimentation, technical growth, and conceptual exploration. The portfolio demonstrates their creative journey and development as reflective and critical thinkers.

As the course concludes, students will curate their Exhibition artworks and complete an accompanying Curatorial Rationale. This rationale articulates the intentions, decisions, and conceptual framework behind the body of work, providing insight into the student's artistic process and vision.

To complete the course, students will prepare digital submissions of their Comparative Study, Process Portfolio, Exhibition, and Curatorial Rationale for upload to the International Baccalaureate Organization (IBIS). These submissions will be externally assessed to evaluate the student's artistic growth, technical skill, and ability to communicate ideas through visual art.

This final year challenges students to achieve a high level of artistic and conceptual mastery, preparing them for further studies in the arts or other creative fields.



## DIGITAL FILM COURSES

Digital Film courses are designed to ensure an enjoyable, progressively challenging, and differentiated art education for JIS students. While One-to-One laptops have infused the digital world into all JIS classrooms, Digital Film classes rely solely on the advanced technology hardware and software designed for creative purposes. Digital SLR cameras are provided for class use as well as off-campus checkout opportunities. Film students are not held responsible for supplying curricular equipment, but they are held accountable for lost or damaged equipment. Classroom iMacs will be provided or the appropriate software will be installed into the Digital Art student's MacBook Air. It is highly recommended that students wishing to enter the International Baccalaureate (IB) Film program have prior digital film experience working with Digital SLR cameras and film editing software.

### Digital Film Production 1 (8193s)

*One semester -0.5 credit*

*Grades 9, 10, 11, 12*

This one-semester course serves as an introduction to the skills and techniques related to creating films. Students are given the opportunity to create original films using school-provided cameras and state-of-the-art non-linear editing software. This is a hands-on course where students experience all phases of film production including brainstorming, storyboarding, planning shooting schedules, filming, editing footage, adding special effects and voice-overs as well as final rendering of the film into multiple display formats.

### Digital Film Production 2 (8194s)

*One semester -0.5 credit*

*Grades 9, 10, 11, 12*

*Prerequisite: Digital Media Production 1*

Building on the concepts and skills learned in Digital Film Production 1 students will work in teams to produce original films. Advanced post-production techniques will be explored with a focus on audio, script development, lighting, and special effects. Films will focus on a variety of visual storytelling techniques including continuity editing, motif, montage, and others to convey artistic intentions. This course is highly recommended for art students interested in IB Film.

### Television and Media Production (81900y)

*One year - 1 credit*

*Grades 10, 11, 12*

*Prerequisites:*

- *Digital Film Production 1*
- *Digital Film Production 2*
- or
- *Interview / Portfolio Review by high school Film Teacher or Visual Arts HoD*

Television and Media Production will build upon learning completed in Digital Film Production courses and designed to provide students with comprehensive knowledge and hands-on experience in television production while fostering a globally engaged mindset. Students will learn the fundamentals of TV broadcasting, from scripting and storyboarding to filming, editing, and producing live TV segments. This course emphasizes global

awareness by integrating international issues into broadcasting projects. It will encourage students to consider how media shapes perspectives on global issues and empower them to create content that inspires social change and connect the school community in one media called "Channel Blue".

### IB H1 Film (9838y)

*One year - 1 credit*

*Grade: 11*

*Prerequisite:*

- *Interview / Portfolio Review by high school Film Teacher or Visual Arts HoD*

*Highly Recommended:*

- *Digital Film Production 2*

IB H1 Film is the first year of the two-year International Baccalaureate (IB) Higher Level Film course. This course is ideal for students with a passion interest in film, whether they aspire to pursue film studies at the college level, as a profession. Nevertheless it is highly recommended students have completed Digital Film Production 2 or can provide sufficient evidence of previous skills and experience.

IB H1 Film is designed to develop students as skilled interpreters and creators of film texts. Through the analysis of films and hands-on film production, students cultivate critical thinking, artistic appreciation, and an understanding of cultural, historical, and global perspectives in cinema. Guided by the IB Higher Level Film curriculum, the course encourages students to explore film concepts, theories, and practices from an array of diverse viewpoints / perspectives. Students will develop the skills necessary to produce a written analysis of a prescribed film and a written film portfolio featuring experimental film reels. This course provides an excellent foundation for advanced study in the second year of the IB HL Film program while fostering a deep appreciation of film as an art form.

### IB S1 Film (9836y)

*One year - 1 credit*

*Grade 11*

*Prerequisite:*

- *Interview / Portfolio Review by high school VA Teacher or VA HoD*

*Highly Recommended:*

- *Digital Film Production 2*

IB S1 Film is the first year of the two-year International Baccalaureate (IB) Standard Level Film course. This course is ideal for students who do not intend to further film learning after graduating, but are very enthusiastic about film and desire to learn more about expressing creativity through film medium. Nevertheless it is highly recommended students have completed Digital Film Production 2 or can provide sufficient evidence of previous skills and experience.

IB S1 Film is designed to develop students as skilled interpreters and creators of film texts. Through the analysis of films and hands-on film production, students cultivate critical thinking, artistic appreciation, and an understanding of cultural, historical, and global perspectives in cinema. Guided by the IB Standard Level Film curriculum, the course encourages students to explore film concepts, theories, and practices from an array of diverse viewpoints / perspectives. Students will develop the skills necessary to produce a written analysis of a prescribed film and a written film portfolio featuring experimental film reels. This course provides an excellent foundation for advanced study in the second year of the IB SL Film program while fostering a deep appreciation of film as an art form.

**IB H2 Film (9839y)***One year – 1 credit**Grade 12**Prerequisite: IB H1 Film*

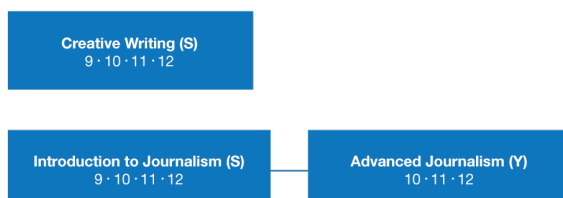
IB H2 Film is the second of the two-year International Baccalaureate Higher Level Film

course. Students are expected to build upon practical and research work done in the first year. Students will gain an appreciation and understanding of film as a complex art form, make critical evaluations of film productions, demonstrate their knowledge of filmmaking traditions in several countries, develop their abilities to formulate stories and ideas in film terms, and learn the practical and technical skills of production. During this second year of this course, students continue to develop skills to produce a recorded multimedia comparative study of selected films, a written film portfolio with experimental film reels, and a collaborative film project of seven minutes with a written report.

**IB S2 Film (9837y)***One year - 1 credit**Grade 12**Prerequisite: IB S1 Film*

IB S2 Film is the second of the two-year International Baccalaureate Standard Level Film course. Students are expected to build upon practical and research work done in the first year. Students will gain an appreciation and understanding of film as a complex art form, make critical evaluations of film productions, demonstrate their knowledge of filmmaking traditions in several countries, develop their abilities to formulate stories and ideas in film terms, and learn the practical and technical skills of production. During this second year of this course, students continue to develop skills to produce a written analysis of a prescribed film, a recorded multimedia comparative study of selected films, and a written film portfolio with experimental film reels.

## CREATIVE WRITING & PUBLICATION COURSES



## CREATIVE WRITING & PUBLICATION COURSES

The Visual Arts Department offers courses to enhance student creative writing skills and advanced publication understanding.

### Creative Writing (1625s)

*May be repeated*

*One semester - 0.5 credit*

*Grades 9, 10, 11, 12*

This semester-long course invites young writers to explore and develop their unique voice by experimenting with a wide range of prose and poetic styles. Through traditional exercises, modern prompts, and student-inspired ideas, participants will cultivate their writer's instinct while refining their craft. Daily handwritten exercises encourage creativity and spontaneity, while process revisions based on peer and instructor feedback enhance each writer's skills and confidence.

Formative tasks build toward meaningful summative assignments, culminating in a self-designed writing project. Students may choose to create a poetry collection, a series of short stories, a blend of both, or even a full-length novel. This course is perfect for students passionate about words, intrigued by the power of creative expression, and eager to tell their stories through writing.

### Introduction to Journalism (8344s)

*One semester - 0.5 credit*

*Grades 9, 10, 11, 12*

This semester-long course introduces students to the fundamentals of journalistic writing, focusing on four key types of journalistic styles. Students will learn to generate compelling story ideas, develop effective interview questions, and structure articles with clarity and purpose. The course also explores the integration of visual elements, such as supporting images and photographs, using industry-standard software.

A central emphasis is placed on understanding and tailoring content to a specific purpose and audience

for each piece. By the end of the course, students will be equipped with foundational skills that prepare them for Advanced Journalism and participation in the high school student magazine, Feedback.

### Advanced Journalism (8384y)

*May be Repeated*

*One year - 1 credit*

*Grades 10, 11, 12*

*Prerequisite:*

- *Introduction to Journalism*

*or*

- *Interview / Portfolio Review by high school Journalism Teacher or Visual Arts HoD*

*Highly Recommended:*

- *Creative Writing*

Building on the skills developed in Introduction to Journalism, this course invites students to join a dynamic team of reporters, artists, and editors to collaboratively produce Feedback, the high school's premier student publication. Covering topics from campus events to global issues, exploring popular interests, and presenting opinion-editorials and investigative pieces, Feedback remains a publication by students, of students, and for students. Team members work individually or in pairs, contributing to a rigorous and rewarding process that produces four to five issues per school year. While the primary audience is the high school community, Feedback is widely enjoyed by the broader JIS community and recognized globally.

As a member of the Columbia Scholastic Press Association for 35 years, Feedback has earned an impressive 15 Gold Medal certificates, 5 Silver Crown Awards, and a 2025 Crown Award Finalist designation. Notably, JIS is the only international school represented among the 18 publications honored in the High School Magazine category. This course provides an unparalleled opportunity for students to gain hands-on experience in professional-level journalism and publication production.









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