

CONNECTICUT IB ACADEMY
EAST HARTFORD, CONNECTICUT

## CONNECTICUT IB ACADEMY

an INTERNATIONAL BACCALAUREATE WORLD SCHOOL© $^{\text {W }}$

## PROGRAM OF STUDIES

for<br>2022-2023<br>School Year

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Dear CIBA Students and Parents,

We are pleased to offer the Connecticut IB Academy's Program of Studies for the 2022-2023 school year. The catalogue will assist you in understanding the International Baccalaureate (IB) Programmes offered at CIBA as well as the requirements for CIBA graduation and those necessary to complete the requirements to obtain the International Baccalaureate Diploma. Students and their parents/guardians should review this carefully as they plan their course of study.

CIBA is a magnet school with International Baccalaureate as its magnet theme. This means that EVERY student at CIBA is in a full IB Programme for all four years. Every course offered at CIBA is an IB course and is offered at the most rigorous, honors level. Please keep in mind that many experts consider the Diploma Programme courses more challenging than similar AP classes. Taking all IB courses and completing the requirements for the IB Diploma are required.

CIBA is pleased to offer an IB-accredited Middle Years Programme (MYP) for grades nine and ten. The MYP is described by the IB as "a challenging framework that encourages students to make practical connections between their studies and the real world." Furthermore, the MYP provides students with a rich, concept-based learning experience and helps to ensure that students are prepared to meet the demands of the Diploma Programme (DP).

The IB Diploma Programme is an academically challenging and balanced programme of international education with final examinations that prepares students, aged 16 to 19 , for success at university and life beyond high school. It has been designed to address the intellectual, social, emotional and physical well-being of students. IB programmes have a high level of respect and recognition among the world's leading higher education institutions, often resulting in advanced course standing, course credit, scholarships and other admissions related benefits for CIBA students.

CIBA, as an International Baccalaureate World School ${ }^{\odot}$, follows the IB models for each programme. This program of studies outlines the course of study involving eight academic areas in grades nine and ten and six academic areas in grades eleven and twelve. Subjects within the groups in both programmes are studied concurrently allowing for interdisciplinary learning. Such course requirements enable students to explore some subjects in depth and others more broadly, a formula the International Baccalaureate Organization describes as "a deliberate compromise between the early specialization of some national systems and the breadth found in others" - and one which we believe ensures exposure to a wider variety of challenges and an exploration of the intricacies of knowledge.

We hope that your student will discover their passions and interests through the courses offered at CIBA. Please do not hesitate to contact me with any questions or comments.

In Partnership,


Kathleen Simoneau
Principal

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## CIBA's Philosophy of Teaching and Learning

The Connecticut IB Academy's philosophy of teaching and learning aligns with the approaches supported by recent research on best practices in education and advocated by the International Baccalaureate Organization.
As an International Baccalaureate World School © authorized to offer both the Middle Years Programme (MYP grades 9 \& 10) and the Diploma Programme (DP grades 11 \& 12), CIBA believes that students can achieve at a high level by working closely with their classmates and teachers through immersion in a rigorous curriculum that allows them to construct meaning and make sense of the world. Students at CIBA are highly motivated to succeed and are encouraged to develop themselves as inquiring, knowledgeable, principled and caring individuals who want to make a difference in the world through a broad understanding of global issues, intercultural understanding and respect.

Teaching and learning at CIBA are centered on the student's exploration of the world around them through the various disciplines and through interdisciplinary study. Students and teachers work together to construct meaning through deep conceptual understanding in each subject area. The International Baccalaureate approach weaves together depth of content understanding with conceptual study through real world connections defined as "global contexts." Students not only develop academic skills, but they work on their social, emotional and metacognitive skills through explicit practice in communication, social, self-management, research, and thinking. The ultimate goal is to empower CIBA students as caring, ethical young people with a passion for a lifetime of learning and a well-developed sense of international mindedness.

## Education for International Mindedness

Education for international mindedness values the world as the broadest context for learning, develops conceptual understanding across a range of subjects and offers opportunities to inquire, act and reflect.

## KEY CONCEPTS AND GLOBAL CONTEXTS

Teaching and learning in the IB is conceptual and taught through global contexts to help students make connections between their classroom experiences and the world around them. Conceptual understanding also assists students in applying their knowledge and skills to new situations. The IB identifies key concepts for each discipline along with related concepts that promote further exploration. In addition, the IB identifies six global contexts through which all learning is framed. These are found both in the MYP and in the DP.

## KEY CONCEPTS

| Aesthetics | Change | Communication | Communities |
| :---: | :---: | :---: | :---: |
| Connections | Creativity | Culture | Development |
| Form | Global interactions | Identity | Logic |
| Perspective | Relationships | Systems | Time, place and space |

## GLOBAL CONTEXTS

Global contexts direct learning towards independent and shared inquiry into our common humanity and shared guardianship of the planet.

The global contexts are:

- identities and relationships
- orientation in space and time
- personal and cultural expression
- scientific and technical innovation
- globalization and sustainability
- fairness and development.


## GRADUATION REQUIREMENTS

In order to graduate from CIBA, all students must meet the graduation requirements established by the Connecticut State Department of Education and the East Hartford Board of Education as well as the CIBAspecific graduation requirements outlined below.

| Credits by Subject Area |  |
| :---: | :---: |
| English | 4 credits |
| Mathematics | 3 credits |
| Social Studies | 3 credits <br> (1 US history, 5 civics) |
| Science | 3 credits |
| PE/Health | 2 credits |
| Art | 1 credit |
| Technology | 1 credit |
| World Language | 3 credits |
| Electives | 4 credits |
| Capstone (Mastery Based) | PP Completion 0.25 credits EE Completion 0.25 credits |
| Community Service <br> (Mastery Based) | SA Completion 0.25 credits CAS Completion 0.25 credits |
| 25 TOTAL |  |


| Promotion Policy |  |
| :--- | :--- |
| To Grade 10 | 6 credits |
| To Grade 11 | 13 credits |
| To Grade 12 | 19 credits |
| Graduation | 25 credits |

# IB MYP CORE REQUIREMENTS 

(MYP 4=Grade 9, MYP 5=Grade 10)

In addition to completing the required classes as outlined above and in the course overview, students must complete the International Baccalaureate Middle Years Programme Service as Action (SA) and the Personal Project (PP) in order to graduate from CIBA. These two elements make up one half of the state and EHPS capstone and community service graduation requirements and are described below.

## SERVICE AS ACTION (SA)

Service as Action (SA) begins at the start of MYP 4 at CIBA and is an integral part of the IB mission. Students take action when they apply what they are learning in the classroom and beyond. IB learners strive to be caring members of the community who demonstrate a commitment to service-making a positive difference to the lives of others and to the environment. To this end, students complete in and out-of-school service and enter their experiences and reflections into ManageBac. A minimum of 14 SA activities are required over the course of MYP (at least 6 SA activities in MYP 4 and at least 8 SA activities in MYP 5).

## PERSONAL PROJECT (PP)

The Personal Project (PP) is begun during the second semester of MYP 4 and is completed in the third quarter of MYP 5. It is a sustained, self-directed inquiry project which is completed independently by each student on a topic of personal interest. Students decide what they want to learn about, what they want to produce, and create criteria for evaluation. They then create a plan to meet these objectives, carry that plan to its' completion, and then reflect on the process as a whole

The aims of the MYP Personal Project are to encourage and enable students to:

- participate in a sustained, self-directed inquiry
- generate creative new insights and develop deeper understandings through in-depth
investigation
- demonstrate the skills, attitudes, and knowledge required to complete a project over an extended period of time
- develop attributes of the learner profile and approaches to learning (ATL) skills
- communicate effectively in a variety of situations
- appreciate the process of learning and take pride in their accomplishments.

The MYP PP encourages students to reflect on their learning and the outcomes of their work - key skills that prepare them for success in further study, the workplace and the community. Students complete research, write process journals along the way, meet with their advisor, and submit a written report of their work along with the product. Each student's project is moderated externally by the International Baccalaureate. This score is included on each student's transcript, but it is not factored into the GPA. Completion of the PP is a graduation requirement at CIBA and also earns students 0.25 credits towards their credit requirement. The Personal Project is the hallmark of the MYP experience and serves as its culmination.

## MIDDLE YEARS PROGRAMME MODEL



## The International Baccalaureate ${ }^{\circledR}$ Middle Years Programme Model

IB Middle Years Programme students (every student at CIBA in grades nine and ten) study all of the eight subjects of the MYP concurrently with the exception of Design and Art which are offered for one year in grades nine and ten respectively.

Eight Subject Groups:

- Language \& Literature
- Language Acquisition
- Individuals and Societies
- Sciences
- Physical and Health Education
- Mathematics
- Arts
- Design

MYP Program Core:

- $\quad$ Service as Action (SA)
- Personal Project (PP)


## IB DP CORE REQUIREMENTS

(DP 1=Grade 11, DP 2=Grade 12)
In addition to completing the required classes as outlined above and in the course overview, students must complete the International Baccalaureate Diploma Programme Creativity, Activity, and Service (CAS) and the Extended Essay (EE) in order to graduate from CIBA. These two elements make up the second half of the state and EHPS capstone and community service graduation requirements. It is important to note that the third requirement of the IB DP core is Theory of Knowledge (ToK) which is described in the course overview on page 38 .

## CREATIVITY, ACTIVITY AND SERVICE (CAS)

Creativity, Activity, and Service (CAS) begins at the start of DP 1 and is completed by May of DP 2 at CIBA. Students complete in and out-of-school experiences in these three areas and enter their experiences and reflections into ManageBac. Creativity is defined as the arts and other experiences that involve creative thinking. Activity is physical exertion contributing to a healthy lifestyle, complementing academic work elsewhere in the Diploma Programme. Service is an unpaid and voluntary exchange that has a learning benefit for the student.

Each student will be required to produce a CAS portfolio in ManageBac. This portfolio is a collection of evidence that showcases CAS experiences and student reflections. Minimum requirements are as follows: 12-15 CAS experiences (at least 6 completed in DP 1), 50 reflections over the two year period (one reflection per week at least 30 completed in DP 1), one CAS project (a minimum of 10 hours), and one final CAS reflection. The student can be guided to enhance their reflections on CAS experiences by using the Ways of Knowing and the IB learner profile. Students are encouraged to make deep connections between their learning in CAS and their subject and Theory of Knowledge learning, and consider how one may help the other. Completion of CAS is based on the fulfillment of the seven CAS learning outcomes, Identify their own strengths and develop areas for growth, demonstrate that challenges have been undertaken, developing new skill in the process, demonstrate how to initiate and plan CAS experiences, demonstrate the skills and recognize the benefits of working collaboratively, show commitment to and perseverance in, CAS experiences, demonstrate engagement with issues of global significance, recognize and consider the ethics of choices and actions. Students must provide thorough reflection evidence of achievement of each of the seven learning outcomes. As a culminating requirement, each student will write a final reflection in which they reflect on all of the CAS activities in which they have participated. The final reflection will review the CAS experience as it has influenced the individual's interests and personal philosophy.

## EXTENDED ESSAY (EE)

One of the Core Requirements for the IB Diploma and a graduation requirement here at CIBA is the completion of the Extended Essay, a 4,000-word research paper written individually by each student. Each student chooses a discipline from the DP courses offered at CIBA, a topic, and develops a research question. The goals of the EE include engaging in independent research with intellectual initiative and rigour; developing research, thinking, self-management and communication skills; and promoting reflection on what has been learned throughout the research and writing process.

The EE process begins in the junior year with general instruction on responsible research, effective writing strategies, citations, and subject-specific requirements. The final paper is handed in during the first semester of the students' senior year. Students take field trips to local colleges to introduce them to college research facilities and allow them access to those resources. During the process of writing the Extended Essay, students are responsible for meeting with their supervisor to discuss progress, and
reflection on those meetings is an important part of the overall assessment of the paper. Completion of the Extended Essay is the best method for students to demonstrate college readiness to prospective colleges, universities, and scholarship committees.

While in-school support is provided, students are expected to devote many hours of their own time to the production of a solid, college-quality paper. As with all Diploma Program requirements, a timeline is provided to assist students with their self-management skills and ensure timely completion.

DIPLOMA PROGRAMME MODEL


## The International Baccalaureate ${ }^{\circledR}$ <br> Diploma Programme Model

IB Diploma Programme students must choose one subject from each of five groups (1 to 5), ensuring breadth of knowledge and understanding. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5 .

Group One: Studies in Language \& Literature
Group Two: Language Acquisition
Group Three: Individuals and Societies
Group Four: Sciences
Group Five: Mathematics
Group Six: The Arts
DP Program Core:

- Extended Essay (EE)
- Theory of Knowledge (ToK)
- Creativity Action Service (CAS)


## IB DIPLOMA REQUIREMENTS

All students who attend CIBA are expected to be candidates for the full IB diploma by completing the entire range of internal and external components required to earn the IB Diploma. The IB Diploma requires that students complete a specific number of course hours in each of the six subject groups over two years. Each of these subjects has an internal project, exploration, assessment or oral assessment that is a required component of the course. The internal assessments serve as a final indicator of whether the student has met the aims and objectives of the course and are calculated as approximately $20 \%$ of the IB exam grade. The IB Exams are a series of papers (examinations) that are administered in May of the senior year. CIBA currently pays for the exam fees for all students. Failure to take an examination or submit any portion of the internal assessment will result in an accountability to reimburse the cost of the exam. The IB also requires the completion of the Theory of Knowledge (ToK), Extended Essay, and Creativity, Activity, and Service (CAS) for the IB diploma.

The external exam papers are each scored on a 1-7 scale, and the scores are combined holistically. Three additional points are available based on performance in ToK and the Extended Essay, for a total of 45 possible points. Students must score a minimum of 24 points to earn an IB Diploma. Below is an explanation of the requirements as set forth by the IBO to earn the IB Diploma.

[^0]Adapted from information provided by the official website of the International Baccalaureate: www.ibo.org
The IB Diploma carries a high level of respect and recognition among the world's leading higher education institutions which results in advanced course standing, course credit, scholarships and other admissions related benefits for CIBA students.

## CONNECTICUT STATE DEPARTMENT OF EDUCATION REQUIREMENTS

In addition to meeting the credit requirements as required by the Connecticut State Department of Education, students must obtain a minimum score of 480 on the Evidence Based Reading and Writing (EBRW) portion of the SAT or a 19 on the English portion of the ACT. Students must obtain a minimum score of 530 on the Mathematics portion of the SAT or a 19 on the Math portion of the ACT.

## SEAL OF BILITERACY

## What is the Seal of Biliteracy?

The Connecticut State Seal of Biliteracy was established to recognize high school graduates who have attained a level of proficiency in English and one or more languages. It is a testament to a student's dedication to building literacy skills in both English and a second language. Appearing on the graduation diploma and student transcript, the Seal certifies the attainment of biliteracy for students, employers, and institutions of higher education.

## How is the Seal of Biliteracy beneficial to our students?

The Seal of Biliteracy honors the diverse languages and cultures of our community. It can help to ensure proper placement in language courses at the college/university level and may result in college credit for work completed in high school (Consultation with individual colleges/universities is required.) In addition, the ability to communicate in both English and at least one other language provides increased career opportunities and can equate to a higher pay rate when students join the workforce.

## How is the Seal of Biliteracy earned at CIBA?

In order to receive the Seal, a student in Grade 12 must demonstrate proficiency in both English and another language. This applies for both native \& non-native English speakers. To demonstrate proficiency, a student must:

- complete all English Language Arts requirements for graduation
and
- score a 4 or higher on the Language Acquisition IB exam.


## Where does the Seal of Biliteracy appear?

The Seal of Biliteracy appears on the high school diploma and the student transcript. If the scores are received after graduation, the Seal is mailed to the student's home to be affixed to the diploma.

| CIBA COURSE MATRIX FOR 2022-2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Grade 9 <br> (IB MYP 4) | Grade 10 (IB MYP 5) | Grade 11 <br> (IB DP 1) | Grade 12 <br> (IB DP 2) |
| Group 1 Language and Literature | MYP 4 English: <br> Language and Literature | MYP 5 English: Language and Literature | DP 1 English: Literature (HL) | DP 2 English: Literature (HL) |
| Group 2 <br> Language <br> Acquisition | MYP 4 Spanish: Language Acquisition | MYP 5 Spanish: Language Acquisition | DP 1 Spanish: <br> Language <br> Acquisition <br> (ab initio/SL) | DP 2 Spanish: <br> Language <br> Acquisition <br> (ab initio/SL) |
|  | MYP 4 Chinese: Language Acquisition | MYP 5 Chinese: Language Acquisition | DP 1 Chinese: Language Acquisition (ab initio/SL) | DP 2 Chinese: <br> Language <br> Acquisition <br> (ab initio/SL) |
| Group 3 <br> Individuals and Societies | MYP 4 United States and the World | MYP 5 Government and Global Issues | DP 1 History of the Americas <br> (HL) | DP 2 Topics in World History (HL) |
|  | MYP 4 Design Technology |  | DP 1 Digital Society <br> (HL) | DP 2 Information Technology in a Global Society (HL) |
| Group 4 Sciences | MYP 4 Integrated Sciences | MYP 5 Chemistry | $\begin{gathered} \hline \text { DP } 1 \text { Biology } \\ \text { (HL) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { DP } 2 \text { Biology } \\ \text { (HL) } \\ \hline \end{gathered}$ |
|  |  |  | DP 1 Chemistry <br> (SL) | DP 2 Chemistry <br> (SL) |
|  | MYP 4 <br> Physical and Health Education | MYP 5 <br> Physical and Health Education |  |  |
| Group 5 Mathematics | MYP 4 Standard Level Mathematics | MYP 5 Standard Level Mathematics | DP 1 Mathematics: Applications and Interpretation (SL) | DP 2 Mathematics: Applications and Interpretation (SL) |
|  | MYP 4 Extended Level Mathematics | MYP 5 Extended Level Mathematics | DP 1 Mathematics: <br> Analysis and Approaches (SL) | DP 2 Mathematics: Analysis and Approaches (SL) |
| Group 6 The Arts |  | MYP 5 Art | $\begin{aligned} & \hline \text { DP } 1 \text { Visual Arts } \\ & \text { (SL) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DP } 2 \text { Visual Arts } \\ & \text { (SL) } \\ & \hline \end{aligned}$ |
| IB Core | Personal Project | Personal Project | Extended Essay | Extended Essay |
|  | Service as Action | Service as Action | Creativity, Activity, Service | Creativity, Activity, Service |
|  |  |  | DP 1 Theory of Knowledge | DP 2 Theory of Knowledge |
| Online courses | Apex | Apex | Apex/Pamoja | Apex/Pamoja |
| Other | Band/Orchestra | Band/Orchestra | Band/Orchestra | Band/Orchestra |

# MYP SPECIFIC SUBJECT GROUPS 

DESIGN

| MYP 4/Grade 9 | Design Technology | 5 periods/week | 1 credit |
| :--- | :--- | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| Design technology is an in-depth analysis of the design cycle, the ever-present idea that fuels change in <br> the world. Through the four stages of the design cycle students will analyze issues affecting a client, <br> develop ideas, create and implement, as well as evaluate and revise. Units focus on graphic design, <br> video editing, programming, web design, and the Sustainable Development Goals as initiated by the <br> United Nations. |  |  |  |
| Course Objectives |  |  |  |
| - $\quad$apply practical and creative thinking skills to solve design problems <br> explore the role of design in both historical and contemporary contexts <br> consider their responsibilities when making design decisions and taking action <br> - |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies the vocational education or technology credit required for graduation. <br> Connecticut State Department of Education Requirement: STEM |  |  |  |

PHYSICAL/HEALTH EDUCATION

| MYP 4/Grade 9 | Physical/Health Education | 5 periods/week | 1 credit |
| :--- | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| Physical/Health Education aims to "empower students to gain a better understanding and appreciate <br> the value of being physically active and develop the motivation for making healthy life <br> choices." (ibo.org) Physical/Health Education courses foster the development of knowledge, skills and <br> attitudes that will allow the student to make healthy choices and the consequences associated with <br> substance abuse. "Physical and Health education focuses on both learning about and learning through <br> physical activity. These help students to develop approaches to learning (ATL) skills across the <br> curriculum. Physical/Health Education contributes a unique perspective to the development of the <br> attributes of the IB learner profile, promoting the health of individuals and communities." <br> (ibo.org) There is an emphasis on skill based health concepts such as: Core Concepts, Analyzing <br> influences, Accessing information, Interpersonal Communication, Decision Making, Goal Setting, Self- <br> Management, and Advocacy as well as an emphasis on sportsmanship and the development of <br> teamwork. Water safety, basic instruction in stroke development and other aquatic activities are <br> included as essential to a safe and healthy lifestyle. Where relevant, the course will address issues of <br> international dimension and ethics by considering sport, exercise and health relative to the individual <br> and in a global context. |  |  |  |
| Course Objectives |  |  |  |

- $\quad$ Criterion A: Knowing and understanding
- $\quad$ Criterion B: Planning for performance
- Criterion C: Applying and performing
- Criterion D: Reflecting and improving performance

Connection to Graduation
This course satisfies one of the two Physical Education/Health credits required for graduation.
Connecticut State Department of Education Requirement: Physical Education and Wellness and Health and Safety Education

| MYP 5/Grade 10 | Physical/Health Education | 4 periods/week | 1 credit |
| :--- | :--- | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| Physical/Health Education continues to "empower students to understand and appreciate the value of <br> being physically active and develop the motivation for making healthy life choices." (ibo.org) To this <br> end, the 10th grade physical/health education courses foster the development of knowledge, skills and <br> attitudes that will allow the student to make healthy choices and the consequences associated with <br> unhealthy choices. There is an emphasis on skill-based health concepts such as: Core Concepts, <br> Analyzing influences, Accessing information. Interpersonal Communication, Decision Making, Goal <br> Setting, Self-Management, and Advocacy. All students at this grade level will receive instruction in a <br> variety of topics including substance abuse, HIV/AIDS, nutrition and other lifestyle choices. Students <br> will receive Red Cross and First Aid instruction. Certification is awarded to those who qualify and meet <br> the standards set forth by the American Red Cross. Where relevant, the course will address issues of <br> international dimension and ethics by considering sport, exercise and health relative to the individual <br> and in a global context. |  |  |  |
| Course Objectives |  |  |  |
| Criterion A: Knowing and understanding <br> Criterion B: Planning for performance <br> Criterion C: Applying and performing <br> Criterion D: Reflecting and improving performance |  |  |  |
| - |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies one of the two Physical Education/Health credits required for graduation. <br> Connecticut State Department of Education Requirement: Physical Education and Wellness and <br> Health and Safety Education |  |  |  |

## GROUP 1 - STUDIES IN LANGUAGE AND LITERATURE

| MYP 4 /Grade 9 | English <br> Language \& Literature | 1 credit |
| :--- | :--- | :--- | :--- |
| Brief Summary of the Course |  |  |
| Students will read and analyze fiction (a novel and short stories), poems, plays, and memoirs to <br> determine the author's purpose and craft. They will focus upon the construction of elements of fiction, <br> poetic forms and devices, the interplay of dramatic elements (literary, stage, and performance), and <br> writing strategies employed in memoirs and personal narratives. Students will compose formal <br> analytical writing pieces, as well as personal creative pastiches, poems, and memoirs. Students will <br> develop and refine non verbal communication and collaboration skills to visually represent significant <br> conflicts and relationships in the design and presentation of tableau. |  |  |
| Course Objectives |  |  |
| Reading and Analyzing <br> analyse the content, context, language, structure, technique and style of text(s) and the |  |  |
| relationship among texts; the effects of the creator's choices on an audience |  |  |
| justify opinions and ideas, using examples, explanations and terminology |  |  |
| evaluate similarities and differences by connecting features across and within genres and texts. |  |  |
| Writing and Organizing |  |  |
| employ organizational structures that serve the context and intention to organize opinions and |  |  |
| ideas in a sustained, coherent and logical manner |  |  |
| use referencing and formatting tools to create a presentation style suitable to the context and |  |  |
| intention. |  |  |
| produce texts that demonstrate insight, imagination and sensitivity while exploring and |  |  |
| reflecting critically on new perspectives and ideas arising from personal engagement with the |  |  |
| creative process |  |  |
| use appropriate and varied vocabulary, sentence structures and forms of expression; use |  |  |
| correct grammar, syntax and punctuation |  |  |


| MYP 5/Grade 10 | English <br> Language and Literature | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |

The course examines the beauty, fragility, and complexity of the human condition through an exploration of fictional plays and novels. When studying drama, students will analyze the combination of dramatic elements (literary, stage, and performance) in order to determine the effect on the audience. Students will collaborate to visually represent significant conflicts, relationships, and themes in artistic representation, written expression, and presentation of tableau. Students will practice inquiry into character relationships, power relationships, and character dynamics through student-led discussions, close-text analysis, and writing original poetry and fiction. Students will engage in regular
journal writing to track their understanding and prepare for student-led critical conversations about textual developments.

## Course Objectives

## Reading and Analyzing

- analyse the content, context, language, structure, technique and style of text(s) and the relationship among texts; the effects of the creator's choices on an audience
- justify opinions and ideas, using examples, explanations and terminology
- evaluate similarities and differences by connecting features across and within genres and texts.

Writing and Organizing

- employ organizational structures that serve the context and intention to organize opinions and
ideas in a sustained, coherent and logical manner
- use referencing and formatting tools to create a presentation style suitable to the context and intention.
- produce texts that demonstrate insight, imagination and sensitivity while exploring and reflecting critically on new perspectives and ideas arising from personal engagement with the creative process
- use appropriate and varied vocabulary, sentence structures and forms of expression; use correct grammar, syntax and punctuation

Connection to Graduation
This course satisfies one of the four English credits required for graduation.
Connecticut State Department of Education Requirement: Humanities

| DP 1/Grade 11 | English Literature (HL) | 5 periods/week | 1 credit |
| :--- | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| This is the first half of the two year course. Students study multiple genres of writing connected by 7 <br> course concepts: Identity, Culture, Creativity, Communication, Perspective, Transformation, and <br> Representation. In order to explore these concepts, as well as global issues, students will read the <br> following texts, some of which are works in translation: The House of the Spirits, by Isabel Allende <br> (Chile); Collected Poems, by Pablo Neruda (Chile); The Crucible, by Arthur Miller (USA), The Handmaid's <br> Tale, by Margaret Atwood (Canada); The Stranger, by Albert Camus (Algeria); 1984, by George Orwell <br> (UK); and Yerma, by Féderico Garcia Lorca (Spain). Students will examine the genre conventions of the <br> novel, drama, and poetry, as well as explore the cultural and historical contexts from which each text <br> emerges, building intertextual connections across texts with respect to global issues. These works are <br> internally assessed through the 15 minute Individual Oral at the end of year one, but they may be used <br> on IB assessments during year two as well. The only caveat is that once a text is used for an IB <br> assessment, it cannot be used again. |  |  |  |
| Course Objectives |  |  |  |
| introduce students to texts from different cultures and historical periods that were originally <br> written in a different language <br> develop a cultural and contextual understanding of the respective countries from which texts |  |  |  |
| emerge, and the impact of setting on characters and plot |  |  |  |

- develop in students the ability to engage in close, detailed analysis of individual texts and make relevant connections
- develop the students' powers of expression, both in oral and written communication
- encourage, through the study of texts, an appreciation of the different perspectives of people from other cultures, and how these perspectives construct meaning
- encourage students to appreciate the formal, stylistic and aesthetic qualities of texts
- develop in students an understanding of the techniques involved in literary criticism and the
students' ability to form independent literary judgments and to support those ideas
- promote in students an enjoyment of, and lifelong interest in, language and literature
- promote a broader understanding of intertextuality with respect to global issues

Connection to Graduation
This course satisfies one of the four English credits required for graduation.
Connecticut State Department of Education Requirement: Humanities

| DP 2/Grade 12 | English Literature (HL) | 5 periods/week | 1 credit |
| :--- | :--- | :--- | :--- |
| Brief Summary of the Course |  |  |  |
| This is the second half of the two-year course. Students continue to study the 7 course concepts <br> (Identity, Culture, Creativity, Communication, Perspective, Transformation, and Representation), <br> through works of nonfiction essays and memoirs, poetry, and drama, including, but not limited to: Born <br> a Crime: Stories from a South African Childhood by Trevor Noah; "Master Harold" and the boys by Athol <br> Fugard; "Civil Disobedience" and Other Essays by Henry David Thoreau; Collected Poems by Li-Young <br> Lee, Anowa by Ama Ata Aidoo, , and Hamlet by William Shakespeare. Students will examine the genre <br> conventions of nonfiction prose, drama, and poetry, as well as explore the cultural and historical <br> contexts from which each text emerges, building intertextual connections across texts with respect to <br> global issues. These works and those studied in year one are externally assessed through the Higher <br> Level Essay (1200-1500 words) and the Paper 1 and Paper 2 exams. No text may be used for more than <br> one IB assessment. |  |  |  |
| Course Objectives |  |  |  |
| introduce students to a range of texts from different periods, styles and genres <br> - develop in students the ability to engage in close, detailed analysis of individual texts and make |  |  |  |
| relevant connections <br> develop the students' powers of expression, both in oral and written communication <br> encourage students to recognize the importance of the contexts in which texts are written and |  |  |  |
| received <br> encourage, through the study of texts, an appreciation of the different perspectives of people <br> from other cultures, and how these perspectives construct meaning <br> $\bullet$ <br> encourage students to appreciate the formal, stylistic and aesthetic qualities of texts <br> develop in students an understanding of the techniques involved in literary criticism and the |  |  |  |
| students' ability to form independent literary judgments and to support those ideas. |  |  |  |
| promote in students an enjoyment of, and lifelong interest in, language and literature. |  |  |  |

## GROUP 2 - LANGUAGE ACQUISITION <br> CHINESE

| MYP 4/Grade 9 | Chinese/Language Acquisition | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| In this course students will gain proficiency in Chinese while supporting maintenance of their mother tongue and cultural heritage. Students will develop a respect for, and understanding of, diverse linguistic and cultural heritages as well as develop the necessary communication skills for further language learning, and for study, work and leisure in a range of authentic contexts and for a variety of audiences and purposes. TPRS strategies will be applied through this course so that students will gain basic skills in reading, listening, speaking and writing by telling stories. |  |  |  |
| Course Objectives |  |  |  |
| - Greetings ,All about me and Pinyin <br> - Numbers,Dates, and Time <br> - Family,Friends and Pets <br> - Colors,Fruits and Weather <br> - Food and Drinks <br> - School Activities <br> - Chinese New Year Traditions |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies the World Language or elective requirement for graduation. |  |  |  |


| MYP 5 /Grade 10 | Chinese/Language Acquisition | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| This course is a continuation of MYP 4 and further provides students with the opportunity to develop insights into the features, processes and craft of language. The concept of culture is explored so that students realize that there are diverse ways of living, behaving and viewing the world. This course starts to use a textbook called "Integrated Chinese" with some TPRS strategies. Students will complete a variety of projects and activities related to the units below. |  |  |  |
| Course Objectives |  |  |  |
| - Community and House <br> - Leisure Time <br> - Clothes Shopping, Chinese Currency and Measure words <br> - Weather and Summer Vacation |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies the World Language or elective requirement for graduation. |  |  |  |


| DP 1/Grade 11 | Chinese/Language Acquisition <br> (SL/Ab initio) | 5 periods/week | 1 credit |
| :--- | :---: | :---: | :---: |
| Course summary | This course is the first year of the two year Mandarin Chinese language acquisition course which <br> provides students with necessary skills and intercultural understanding to enable them to <br> communicate successfully in a place where Mandarin Chinese is spoken. |  |  |
| Five Themes that are explored are: <br> Identities, Experiences, Human Ingenuity, Social organization, and Sharing the Planet. |  |  |  |
| Course Objectives |  |  |  |
| - $\quad$Chinese IB Education 1st year Introduction <br> School Life |  |  |  |
| Food and Chinese cuisine <br> Healthy Life <br> Transportation and Travel to China |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies the World Language or elective requirement for graduation. |  |  |  |


| DP 2/Grade 12 | Chinese/Language Acquisition (SL/Ab initio) | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| This course is the final year of the DP curriculum in Mandarin Chinese. It continues to follow five topics in DP 1 Chinese and emphasizes the concepts that link their learning to local and global content. Stress will be placed on authentic and challenging readings including literature and language tasks. Preparation for the IB Exam is another focus of this course. |  |  |  |
| Course Objectives |  |  |  |
| - Chinese IB Education 2nd year introduction <br> - Social Life and Personal Attributes <br> - Technology and Media <br> - Education and Career |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies the World Language or elective requirement for graduation. |  |  |  |


| MYP 4 /Grade 9 | Spanish/Language Acquisition | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| The purpose of this course is to develop the ability to use the target language to communicate about everyday topics while fostering a global interconnection with the use of Global Contexts(themes) as well as making connections to the Hispanic community. Students will also demonstrate the ability to work collaboratively and develop their reading, writing, listening and speaking skills, which are assessed within 3 levels of proficiencies and 2 phases (out of 6) within those levels for assessment progression. The program structures sustained inquiry in language acquisition by developing conceptual understanding in Global contexts (identities and relationships, orientation in space and time, personal and cultural expression, scientific and technical innovation, globalization and sustainability and fairness and development) by prescribed key concepts (Communications, connections, creativity and culture) and related concepts. These concepts are a requirement in the MYP program. A statement of inquiry, inquiry questions, key concepts, related concepts and Global Contexts are the backbone of the MYP program. |  |  |  |
| Course Objectives |  |  |  |
| Criterion A: <br> Listening <br> Comprehending spoken and visual text | students should be able to: identify basic facts, messages, main ideas and supporting details; recognize basic conventions; engage with the spoken and visual text by identifying ideas, opinions and attitudes and by making a personal response to the text. | Listening activity -teacher reads pro respond with or w -students commun other -shows understand | ents <br> age <br> each <br> ncept |
| Criterion B: <br> Reading: <br> Comprehending written and visual text | students should be able to: identify basic facts, messages, main ideas and supporting details; recognize basic aspects of format and style, and author's purpose for writing; engage with the written and visual text by identifying ideas, opinions and attitudes and by making a personal response to the text. | Multiple choice or Reading comprehe paragraph or auth -shows understand | images <br> ncept |
| Criterion C: <br> Speaking: <br> Communicating in response to spoken, written, and/or visual text | students should be able to: respond appropriately to simple short phrases; interact in simple and rehearsed exchanges, using verbal and non-verbal language; use basic phrases to communicate ideas, feelings and information on a variety of aspects of everyday topics; communicate with a sense of audience. | Using the target la an oral question, w visual text. <br> Responses are com be oral, written, or understanding | answer xt or <br> ive can to show |
| Criterion D: Writing: Using language in spoken and written form | students should be able to: write and speak using a basic range of vocabulary, grammatical structures and conventions; when speaking, use clear pronunciation and intonation; organize basic information and use a range of basic cohesive devices; use language to suit the context. | Writing or speakin <br> Responses are com Oral or written Responding to a w prompt in the targ |  |
| Connection to Graduation |  |  |  |
| This course satisfies the World Language or elective requirement for graduation. |  |  |  |


| MYP 5 /Grade 10 | Spanish/Language Acquisition | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| Students will demonstrate their ability to function both communicatively and culturally in Spanish at a minimum of an emergent level, Phase 2 of proficiency. Students will engage in interpretive listening and reading, presentational and interpersonal writing, and presentational and interpersonal speaking. Through their study of the language, students will demonstrate an understanding of the personal, vocational, and economic benefits of being able to gain proficiency in a second language. |  |  |  |
| Course Objectives |  |  |  |
| Criterion A: Listening: <br> Comprehending <br> spoken and visual text | students should be able to: identify basic facts, messages, main ideas and supporting details; recognize basic conventions; engage with the spoken and visual text by identifying ideas, opinions and attitudes and by making a personal response to the text. | Listening activity -teacher reads promp students respond without image -students commun each other -shows understand concept | or <br> with <br> of |
| Criterion B: Reading: <br> Comprehending written and visual text | students should be able to: identify basic facts, messages, main ideas and supporting details; recognize basic aspects of format and style, and author's purpose for writing; engage with the written and visual text by identifying ideas, opinions and attitudes and by making a personal response to the text. | Multiple choice or images <br> Reading comprehe paragraph or authe -shows understand concept | with <br> on of <br> ic text <br> of |
| Criterion C: Speaking: Communicating in response to spoken, written, and visual text | students should be able to: respond appropriately to simple short phrases; interact in simple and rehearsed exchanges, using verbal and non-verbal language; use basic phrases to communicate ideas, feelings and information on a variety of aspects of everyday topics; communicate with a sense of audience. | Using the target langu answer an oral que written text or visu <br> Responses are com can be oral, written gestures to show understanding | age to <br> on, <br> text. <br> unicative: <br> r |
| Criterion D:Writing: Using language in spoken and written form | students should be able to: write and speak using a basic range of vocabulary, grammatical structures and conventions; when speaking, use clear pronunciation and intonation; organize basic information and use a range of basic cohesive devices; use language to suit the context. | Writing or speakin <br> Responses are com Oral or written <br> Responding to a wr oral prompt in the language | nicative <br> en or get |
| Connection to Graduation |  |  |  |
| This course satisfies the World Language or elective requirement for graduation. |  |  |  |


| DP 1/Grade 11 |  |  |  |
| :--- | :---: | :---: | :---: |
| DP 2/Grade 12 | Spanish/Language Acquisition <br> (SL/Ab initio) | 5 periods/week | 1 credit/yr |

## Brief Summary of the Course

The course is comprised of 5 Themes (Identities, Experiences, Human Ingenuity, Social Organization and Sharing the Planet). The themes are studied over a 2 -year period with a variety of topics covered under each theme. The focus is on speaking, listening, writing and reading comprehension as it pertains to a variety of authentic text types and audiences. Students are required to speak in the target language, do oral presentations, complete lengthy written texts, listen and comprehend various Hispanic speakers, and engage in the target language with peers on various topics, while learning about the Hispanic culture. The study of another language is crucial in developing an international-minded and global thinking IB student.

Course Objectives

- To develop the necessary skills to speak, comprehend, read and write effectively in the target language
- To acquire knowledge on a variety of text types' uses, audiences, format, etc.
- To immerse oneself in the language by speaking exclusively in the target language
- To acquire improved receptive, interactive, and interpersonal skills
- To develop an understanding and appreciation of the Hispanic culture.

Connection to Graduation
These courses satisfy the World Language or elective requirement for graduation.

# GROUP 3 - INDIVIDUALS AND SOCIETIES 

| MYP 4/Grade 9 | United States History: Reconstruction through the 20th century | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| The MYP4 social studies class is a survey of US history from Reconstruction to the second half of the 20th century. During this course, students will examine the experiences of individuals and groups in the context of larger historical events that shaped the United States after the Civil War. The course follows a roughly chronological path within an organizational structure of themes. A sampling of these themes includes: Re/Building the USA (Reconstruction); E Pluribus Unum (immigration/migration); Innovation Nation (industrialization and innovation); Conflict and Cooperation (war and peace); American Expression (focus on arts and culture). In addition to history content knowledge, there is a heavy emphasis on social studies skill building guided by the MYP criteria. |  |  |  |
| Course Objectives |  |  |  |
| - develop factual and conceptual knowledge about individuals and societies <br> - develop systematic research skills and processes associated with disciplines in the humanities and social sciences <br> - develop successful strategies for investigating independently and in collaboration with others <br> - develop skills to organize, document and communicate their learning using a variety of media and presentation formats <br> - use critical thinking skills to develop and apply their understanding of individuals and societies and the process of investigation |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies the US History Social Studies requirement for graduation. Connecticut State Department of Education Requirement: Humanities |  |  |  |


| MYP 5/Grade 10 | Government and Global Issues | 5 periods/week | 1 credit |
| :--- | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| Government and Global Issues is the Social Studies class for MYP 5. In this course, students will study <br> the United States government's function in depth and in comparison with other nations. Global issues <br> studied may include Human Rights, Development, Power, Sovereignty, and International Relations. <br> Students will build on the skills acquired in MYP 4 by completing an intensive research project. |  |  |  |
| Course Objectives |  |  |  |
| - develop factual and conceptual knowledge about individuals and societies |  |  |  |
| - develop systematic research skills and processes associated with disciplines in the humanities |  |  |  |
| and social sciences |  |  |  |
| - develop successful strategies for investigating independently and in collaboration with others |  |  |  |
| - develop skills sto organize, document and communicate their learning using a variety of media |  |  |  |
| and presentation formats |  |  |  |
| - use critical thinking skills to develop and apply their understanding of individuals and societies |  |  |  |
| and the process of investigation |  |  |  |

Connection to Graduation
This course satisfies the .5 civics credit and .5 of the Social Studies credits required for graduation.
Connecticut State Department of Education Requirement: Humanities

| DP 1/Grade 11 | History of the Americas (HL) | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| History of the Americas is the first year of the two-year IB Diploma Program history course. The region of focus is the Americas which requires that we study several countries in the western hemisphere, not just the United States. Students will engage in comparative and multi-perspective units such as Emergence of the Americas in Global Affairs (1880-1929), which looks at the rise of hemispheric cooperation and conflict; The Second World War in the Americas (1933-1945), which examines the contributions of Canada, the USA and Latin American countries to the war effort as well as the impact on the home front; and Civil Rights and Social Movements in the Americas post 1945, again taking a hemispheric approach as we study indigenous rights movements in North and South America, as well as the US Civil Rights movement, women's movements and other social justice causes in the Americas. |  |  |  |
| Course Objectives |  |  |  |
| - develop an understanding of, and continuing interest in, the past <br> - encourage students to engage with multiple perspectives and to appreciate the complex nature of historical concepts, issues, events and developments promote international-mindedness through the study of history from more than one region of the world <br> develop an understanding of history as a discipline and to develop historical consciousness including a sense of chronology and context, and an understanding of different historical perspectives develop key historical skills, including engaging effectively with sources <br> - increase students' understanding of themselves and of contemporary society by encouraging reflection on the past. |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies one of the three Social Studies credits required for graduation. Connecticut State Department of Education Requirement: Humanities |  |  |  |


| DP 2/Grade 12 | Topics in World History (HL) | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |

During the second year of IB DP history, students will expand their topical study to include events in Europe, Africa and Asia. Students will examine struggles for rights and freedoms in the mid-20th century. Two case studies will be evaluated. The first case study explores the Civil Rights movement in the US between 1954 and the passing of the Voting Rights Act in 1965. The second case explores protests against apartheid in South Africa in the years 1948-1964.

In addition, students will study the authoritarian states of the 20th century focusing on the emergence, consolidation and maintenance of power, including the impact of the leaders' policies, both domestic and foreign, upon the maintenance of power. Leaders such as Mao, Castro, Hitler and Stalin will be studied. Finally, students will evaluate the Cold War: Superpower tensions and rivalries which dominated the second half of the 20th century. This provides an international perspective by studying the role of Cold War leaders, countries and crises from more than one region of the world.

During the year, students will complete a Historical Investigation (research paper) and continue to develop document analysis and essay writing skills essential that are so critical for their success in college, regardless of their field of study.

## Course Objectives

- develop key historical skills, including engaging effectively with sources, evaluating values of a source, writing an evidence-based argument/position
- encourage students to engage with multiple perspectives and to appreciate the complex nature of historical concepts, issues, events and developments
- promote international-mindedness through the study of history from multiple world regions - develop an understanding of history as a discipline and to develop historical consciousness including a sense of chronology and context, and an understanding of different historical perspectives - increase students' understanding of themselves and of contemporary society by encouraging and valuing reflection on the past.

Connection to Graduation
This course satisfies one of the three Social Studies credits required for graduation or the humanities elective requirement.
Connecticut State Department of Education Requirement: Humanities

| DP 1/Grade 11 | Digital Society | 5 periods/week | 1 credit/yr |
| :--- | :--- | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| We are in a revolution that is changing the way people communicate, collaborate, create and connect. <br> Like prior turning points in history, this digital revolution has profound implications for people, <br> communities and institutions. |  |  |  |
| This course approaches changes in technology, media, ethics and policy through conceptual and <br> contextual lenses. At its heart, the course invites teachers and young people to become partners who <br> explore these disruptions together. The goal of digital society (DS) is to prepare young people to shape <br> and lead the future world rapidly emerging around us. |  |  |  |
| Course Objectives |  |  |  |

- explore diverse sources relevant to digital society, investigating impacts and implications of digital systems for people and communities
- focus inquiry using course concepts, content and contexts as well as real-world examples
- share discoveries about digital society with others
- reflect on emerging trends, future developments and further insights.

Connection to Graduation
These courses satisfy one of the three Social Studies credits required for graduation and/or the humanities elective requirement.
Connecticut State Department of Education Requirement: Humanities

| DP 2/Grade 12 | Information Technology in a Global Society (HL) | 5 periods/week | 1 credit/yr |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| ITGS is the study and evaluation of the impacts of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the access and use of digitized information at the local and global level. ITGS provides a framework for students to make informed judgments and decisions about the use of IT within social contexts. |  |  |  |
| Course Objectives |  |  |  |
| - enable students to evaluate social and ethical considerations arising from the widespread use of IT by individuals, families, communities, organizations and societies at the local and global level develop students' understanding of the capabilities of current and emerging IT systems and to evaluate their impact on a range of stakeholders <br> enable students to apply their knowledge of existing IT systems to various scenarios and to make informed judgments about the effects <br> - encourage students to use their knowledge of IT systems and practical IT skills to justify IT solutions for a specified client or end-user |  |  |  |
| Connection to Graduation |  |  |  |
| These courses satisfy one of the three Social Studies credits required for graduation and/or the humanities elective requirement. <br> Connecticut State Department of Education Requirement: Humanities |  |  |  |

## GROUP 4 - SCIENCES

| MYP 4/Grade 9 | Integrated Sciences | 5 periods/week | 1 credit |
| :--- | :--- | :--- | :--- |
| Brief Summary of the Course |  |  |  |
| This course is aligned to the Next Generation Science Standards and offers freshmen the opportunity to <br> use science and engineering practices, crosscutting concepts, and disciplinary core ideas to learn how <br> physical science and earth science concepts can be used to explain Earth's place in the universe. Earth's <br> systems, Earth \& human activity, Climate change, Planetary motion, Forces \& interactions and their <br> applications. Students will also study engineering, technology, and application of science in relation to <br> the above concepts. |  |  |  |
| Course Objectives |  |  |  |
| - $\quad$Knowing and understanding scientific information involving earth science <br> Design investigations to solve problems seen in today's climate |  |  |  |
| - $\quad$Analyze and interpret data to support arguments <br> Research controversial topics in earth science and form arguments founded in research |  |  |  |
| - Connection to Graduation |  |  |  |
| This course satisfies one of the three science credits required for graduation. <br> Connecticut State Department of Education Requirement: STEM |  |  |  |


| MYP 5/Grade 10 | Chemistry | 5 periods/week |
| :--- | :---: | :---: |
| Brief Summary of the Course | 1 credit |  |
| Chemistry is the study of the structure of matter, the interactions of matter and the energy exchanged <br> during these interactions. |  |  |
| Course Objectives |  |  |
| • Knowing and understanding scientific information related to structure, properties and <br> interaction of matter. <br> $\bullet$ <br> $\bullet$ <br> Design investigations to solve problems related to chemical systems. <br> Analyze and interpret data to support and arguments. <br> Research and report on the impact of science on our societies. |  |  |
| Connection to Graduation |  |  |
| This course satisfies one of the three science credits required for graduation. <br> Connecticut State Department of Education Requirement: STEM |  |  |


| DP 1/Grade 11 <br> DP 2/Grade 12 Chemistry (SL) | 6 periods/week | 1.2 credits/yr |
| :--- | :--- | :---: | :---: |
| Brief Summary of the Course |  |  | | Throughout this two-year experimental sciences course, students will explore stoichiometric |
| :--- |
| relationships, atomic structure, periodic trends, chemical bonding and energetics. Other areas of study |

include chemical kinetics, equilibrium systems, acid-base chemistry, redox chemistry and organic chemistry. Students will also work to improve lab techniques and skills.

## Course Objectives

- $\quad$ Students will acquire knowledge of various chemical structures, properties and systems.
- $\quad$ Students will design scientific investigations to explore chemical systems.
- $\quad$ Students will analyse the validity of scientific methods and data.


## Connection to Graduation

These courses satisfy one of the three science credits required for graduation and/or one STEM elective required for graduation.
Connecticut State Department of Education Requirement: STEM


## GROUP 5 - MATHEMATICS

| MYP 4/Grade 9 | Standard Level Mathematics | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| MYP 4 Standard Level Mathematics focuses on topics that will serve as the foundation for all future mathematics courses. The primary objective is for students to transfer their concrete mathematical knowledge to more abstract algebraic generalizations. |  |  |  |
| Course Objectives |  |  |  |
| Upon completion of this course, students should be able to: <br> Write and evaluate expressions <br> - Recognize and write explicit and recursive formulas for arithmetic and geometric sequences <br> - $\quad$ Solve linear equations and inequalities <br> - Represent functions using tables, graphs, and equations <br> - Model real world situations using functions <br> - Write and graph linear functions <br> - Solve systems of linear equations using multiple strategies <br> - Apply the properties of exponents to simplify expressions <br> - Add, subtract and multiply polynomials <br> - Solve quadratic equations using multiple methods <br> - Graph quadratic functions |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies one of the three mathematics credits required for graduation. Connecticut State Department of Education Requirement: STEM |  |  |  |
| MYP 4/Grade 9 | Extended Level Mathematics | 5 periods/week | 1 credit |
| Brief Summary of the Course |  |  |  |
| MYP 4 Extended Level Mathematics focuses on statistical and geometric concepts and processes with an emphasis on reasoning and problem-solving skills. The topics covered in this course serve as a foundation of other statistical and geometric concepts covered in higher mathematics courses. The curriculum is designed for students with a strong mathematical background who are able to commit to additional study time that may be required. |  |  |  |
| Course Objectives |  |  |  |
| Students will develop knowledge and understanding of: <br> - Categorical v. Quantitative and Continuous v. Discrete data <br> - Graphical displays of data <br> - Measures of Center and Spread <br> - Outliers and Skew <br> - Two-Way Tables and Probability <br> - Data Collection <br> - Coordinate Algebra <br> - Coordinate Geometry |  |  |  |

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- Deductive and inductive reasoning
- Proof
- Parallel lines and transversals
- Congruence and similarity
- Polygons
- Perimeter, area, and volume
- Right triangles
- Circles
- Coordinate geometry
- Transformations and symmetry
```

Connection to Graduation
This course satisfies one of the three mathematics credits required for graduation.
Connecticut State Department of Education Requirement: STEM

| MYP 5 | Standard Level Mathematics | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| MYP 5 Standard Level Mathematics builds on topics learned in the MYP 4 Standard Level Mathematics course. The first semester of the course focuses on geometric concepts and processes with an emphasis on reasoning and problem-solving skills. The topics covered in this course serve as a foundation of other geometric concepts covered in higher mathematics courses. The second semester of the course focuses on topics in furthering students' algebra skills through more advanced and abstract algebra concepts. <br> Prerequisite: MYP 4 Standard Level Mathematics or teacher recommendation |  |  |  |
| Course Objectives |  |  |  |
| - Parallel lines and transversals <br> - Congruence and similarity <br> - Polygons \& Circles <br> - Coordinate Geometry <br> - Model real world situations using functions. <br> - Write and graph quadratic functions <br> - Write and graph exponential equations <br> - $\quad$ Right triangle trigonometry |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies one of the three mathematics credits required for graduation. Connecticut State Department of Education Requirement: STEM |  |  |  |


| MYP 5 | Extended Level Mathematics | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |

MYP 5 Extended Level Mathematics builds on topics learned in the MYP 4 Extended Level Mathematics course. The topics covered in this course focus on topics which further students' algebra skills through more advanced and abstract algebra concepts. The curriculum is designed for students with a strong mathematical background who are able to commit to additional study time that may be required.

## Prerequisite: MYP 5 Extended Level Mathematics or teacher recommendation

Course Objectives

- Set theory
- Recognize and write explicit formulas for arithmetic and geometric sequences
- Solve problems using formula for arithmetic and geometric sequences
- Model real world situations using functions
- Write and graph quadratic equations
- Write and graph exponential equations
- Write and graph logarithmic equations
- Right triangle trigonometry

Connection to Graduation
This course satisfies one of the three mathematics credits required for graduation.
Connecticut State Department of Education Requirement: STEM

| DP 1 /Grade 11 <br> DP 2/Grade 12 | Mathematics: Applications and <br> Interpretation (SL) | 5 periods/week | 1 credit/yr |
| :--- | :--- | :--- | :--- |
| Brief Summary of the Course |  |  |  |
| This course recognizes the increasing role that mathematics and technology play in a diverse range of <br> fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing <br> on topics that are often used as applications or in mathematical modeling. To give this understanding a <br> firm base, this course also includes topics that are traditionally part of a pre-university mathematics <br> course such as calculus and statistics. <br> The course makes extensive use of technology to allow students to explore and construct mathematical <br> models. Mathematics: Applications and Interpretation will develop mathematical thinking, often in the <br> context of a practical problem and using technology to justify conjectures. |  |  |  |
| Course Objectives |  |  |  |
| Topic 1: Number and Algebra-Scientific notation, sequences, series, and their applications, <br> - <br> systems of equations, polynomial equations <br> $\bullet$ <br> Topic 2: Functions-Domain and range, determining key features of a graph, mathematical <br> models of linear, quadratic, exponential, higher degree and sinusoidal functions <br> Topic 3: Geometry and Trigonometry-Distance and midpoint, volume and surface area of three- |  |  |  |
| dimensional solids, right triangle trigonometry, sine and cosine rules, applications of trigonometry, <br> circles - length of arcs and area of sectors <br> $\bullet$$\quad$ Topic 4: Statistics and Probability-Populations, samples, sample bias, outliers, graphs of data, |  |  |  |
| measures of central tendency and dispersion, bivariate data, linear regression and correlation, simple |  |  |  |
| probability, Venn diagrams, conditional probability, random variables, expected value, binomial |  |  |  |
| distribution, Normal distributions, chi-squared test for independence, one and two-tailed t tests |  |  |  |


| - Topic 5: Calculus-Introduction of a limit, derivatives, increasing and decreasing functions, |
| :--- |
| integrals, optimization, trapezoidal rule |$|$| Connection to Graduation |
| :--- |
| These courses satisfy one of the three mathematics credits required for graduation and/or one STEM <br> elective required for graduation. <br> Connecticut State Department of Education Requirement: STEM |


| DP 1/Grade 11 <br> DP 2/Grade 12 | Mathematics: Analysis and Approache | 5 periods/week | 1 credit/y |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| The course allows the use of technology, as fluency in relevant mathematical software and hand-held technology is important regardless of choice of course. However, Mathematics: analysis and approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. <br> Prerequisite: Successful completion of MYP 4 \& MYP 5 Extended Level Mathematics or teacher recommendation. |  |  | This course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof (for instance the study of sequences and series). |
| Course Objectives |  |  |  |
| - Topic 1: Number and Algebra-Scientific notation, sequences, series, and their applications, laws of exponents, simple deductive proof, the binomial theorem <br> Topic 2: Functions-Different forms of linear equations, concept of a function, Domain and range, determining key features of a graph, composite functions, quadratic functions, reciprocal functions, exponential functions, solving equations, and transformations of graphs <br> Topic 3: Geometry and Trigonometry-Distance and midpoint in three dimensions, right triangle trigonometry and its applications, the unit circle, circles - radian measure, length of arcs and area of sectors, circular functions, key features of circular functions and their graphs, solving trigonometric equations <br> Topic 4: Statistics and Probability-Populations, samples, sample bias, outliers, graphs of data, measures of central tendency and dispersion, bivariate data, linear regression and correlation, simple probability, the laws of probability, Venn diagrams, conditional probability, random variables, expected value, binomial distribution, Normal distributions, standardization of normal variables <br> Topic 5: Calculus-Introduction of a limit, increasing and decreasing functions, derivatives, derivatives of trig functions, second derivatives, tangent and normals, anti-differentiation, optimization, kinematic problems, indefinite integrals, definite integrals, area under a curve |  |  |  |
| Connection to Graduation |  |  |  |
| These courses satisfy one of the three mathematics credits required for graduation and/or one STEM elective required for graduation. <br> Connecticut State Department of Education Requirement: STEM |  |  |  |

# GROUP 6 - THE ARTS 

| MYP 5/Grade 10 | Art | 5 periods/week | 1 credit |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| MYP 5 Art, a prerequisite for DP Visual Arts, allows students to create and present art, develop skills specific to the discipline and engage in a process of creative exploration and self-discovery. Students will demonstrate the acquisition and development of the skills and techniques of various art forms to create and present art. Students will learn to critique their own art and the art of others. Students will have the opportunity to explore various media and techniques through studio work. Students will experience the fundamental core of art and design and will focus on these through their work as well as in discussion, peer critiques, and assessments. Some topics explored are: one- and two-point perspective, shading and drawing, painting, mixed media, abstraction, the human figure, and threedimensional art. |  |  |  |
| Course Objectives |  |  |  |
| - create and present art <br> - develop skills specific to the discipline <br> - engage in a process of creative exploration and (self-)discovery <br> - make purposeful connections between investigation and practice <br> - understand the relationship between art and its contexts <br> - respond to, and reflect on, art <br> - deepen their understanding of the world |  |  |  |
| Connection to Graduation |  |  |  |
| This course satisfies the art credit required for graduation. Connecticut State Department of Education Requirement: Humanities |  |  |  |
| DP 1/Grade 11 | Visual Art | 5 periods/week | 1 credit |
| Brief Summary of the Course |  |  |  |
| The DP Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts (ibo.org). In making connections to Theory of Knowledge, students study the various artistic ways through which knowledge, skills and attitudes from different cultural contexts are developed and transmitted. This course requires that students focus primarily on self-improvement, self-discovery, and expression through their artwork. It provides students with a deeper idea of what art and design can mean for working artists today as well as for themselves. Students will incorporate the mastered foundations into each lesson and project. Each lesson is openended. Students are required to complete a Visual Arts Journal (sketchbook) that will include sketches and research information pertaining to each individual art project. Students will be given the |  |  |  |

opportunity to explore various gallery shows and museums. Assessment will include a student portfolio as well as the Visual Arts Journal.

## Course Objectives

- respond to and analyze critically and contextually the function, meaning and artistic qualities of past, present and emerging art
- develop and present independent ideas and practice, and explain the connections between these and the work of others
- explore and develop ideas and techniques for studio work through integrated contextual study and first-hand observations
- develop and maintain a close relationship between investigation and a purposeful, creative process
- produce personally relevant works of art that reveal evidence of exploration of ideas that reflect cultural and historical awareness
- develop and demonstrate technical competence and artistic qualities that challenge and extend personal boundaries


## Connection to Graduation

This course satisfies the humanities elective requirement.
Connecticut State Department of Education Requirement: Humanities

| DP 2/Grade 12 | Visual Arts (SL) | 5 periods/week | 1 cred |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Cou |  |  |  |
| This is a continuation of the concepts, themes, skill development, creativity, self-expression and reflection students embarked upon in DP 1 Visual Arts. The focus is on the exploration of self in order to challenge and explore ideas through various media. Each project is open-ended and individualized in order to meet each student's creative needs. Students are required to concentrate on a specific personal goal, challenge. or theme in order to improve as artists throughout the year. Students will experience how to put up and strike a gallery show by setting up a student-based art show at the end of the year. Assessment will include a professional student portfolio, Visual Arts Journal (sketchbook), as well as the student-based art show. |  |  |  |
| Course Objectives |  |  |  |
| - respond to and analyze critically and contextually the function, meaning and artistic qualities of past, present and emerging art <br> develop and present independent ideas and practice, and explain the connections between these and the work of others <br> - $\quad$ explore and develop ideas and techniques for studio work through integrated contextual study and first-hand observations <br> - develop and maintain a close relationship between investigation and a purposeful, creative process <br> - produce personally relevant works of art that reveal evidence of exploration of ideas that reflect cultural and historical awareness <br> - develop and demonstrate technical competence and artistic qualities that challenge and extend personal boundaries |  |  |  |

- prepare a show of all work done, exhibit the work, with artist statements and a curatorial rationale
- create a multiple screen document comparing at least 3 works of art done by at least 2 artists from at least 2 different cultural backgrounds
- create a multiple screen document of all the necessary sketchbook pages that hit all the IB exam requirements and an explanation of each page

Connection to Graduation
This course satisfies the humanities elective requirement.
Connecticut State Department of Education Requirement: Humanities

## THEORY OF KNOWLEDGE (ToK)

| DP 1/Grade 11 DP 2/Grade 12 | Theory of Knowledge | 4 periods/week | . 8 credits/yr |
| :---: | :---: | :---: | :---: |
| Brief Summary of the Course |  |  |  |
| One of the Core Requirements for the IB Diploma is the completion of Theory of Knowledge, offered as a two-year course at CIBA. Theory of Knowledge is a course that explores what we know and how we know it. This enables students to reflect upon and appreciate the importance of critical thinking about the nature of knowledge through their study of <br> One CORE THEME: Knowledge and the Knower <br> Five AREAS OF KNOWLEDGE: The Natural Sciences, The Human Sciences, Mathematics <br> The Arts, \& History <br> Two OPTIONAL THEMES: Knowledge and Politics \& Knowledge and Language <br> ToK is an intrinsic part of all the disciplines that comprise the IB DP curriculum, and the connections made occur within and beyond this course-in every classroom, in every subject. Students' exploration and understanding of these themes and concepts are internally assessed at the end of DP1 through the ToK Exhibition (900-950 words) and externally assessed during DP2 through the ToK Prescribed Title (1400-1600 words). The Exhibition score comprises $1 / 3$ of a student's ToK grade, and the Prescribed Title score makes up the other $2 / 3$. Completion of the ToK course and submission of both assessments are required for all diploma candidates; high achievement in these assessments can earn diploma candidates up to 2 additional points towards their IB diploma requirements. |  |  |  |
| Course Objectives |  |  |  |
| - to encourage students to be more aware of their own perspectives and to reflect critically on their own beliefs and assumptions <br> to engage students with multiple perspectives, foster open-mindedness and develop intercultural understanding <br> to encourage students to make connections between academic disciplines by exploring underlying concepts and by identifying similarities and differences in the methods of inquiry used in different areas of knowledge <br> to prompt students to consider the importance of values, responsibilities and ethical concerns relating to the production, acquisition, application and communication of knowledge. |  |  |  |
| Connection to Graduation |  |  |  |
| This course is part of the DP core and is a requirement of the IB Diploma. One credit may count towards the humanities elective requirement. <br> Connecticut State Department of Education Requirement: Humanities |  |  |  |

## IB DP PAMOJA ONLINE COURSES

Through a cooperative effort with the IBO and Pamoja Education, CIBA is able to offer a number of DP online courses for our students. This effort is intended to offer a wider range of electives to students who may be looking for courses we are not able to offer in school. Offerings include: business management, economics, film, French ab initio, Mandarin ab initio, HL mathematics analysis and approaches, philosophy, psychology, and Spanish ab initio.

Students who are interested in taking an online course through Pamoja must apply and be approved by Administration and Guidance. Students must also be recommended by their teachers and show excellent self-management skills throughout both years in the MYP. Students are assigned one class period per day to work on their online course; students who choose an online course must be organized, self-motivated and willing to devote the necessary time to this work. Students who register for an online DP course through Pamoja must commit to taking both years of the course and to complete the full range of assessments and exams connected to the IB course. Failure to complete the course and/or the requirements will result in an accountability for the cost of the course.


[^0]:    The IB Diploma will be awarded to a candidate provided all the following requirements have been
    met.
    a. CAS requirements have been met.
    b. The candidate's total points are 24 or more.
    c. There is no " N " awarded for theory of knowledge, the extended essay or for a contributing subject.
    d. There is no grade E awarded for theory of knowledge and/or the extended essay.
    e. There is no grade 1 awarded in a subject/level.
    f. There are no more than two grade 2 s awarded (HL or SL).
    g. There are no more than three grade $3 s$ or below awarded (HL or SL).
    h. The candidate has gained 12 points or more on HL subjects (for candidates who register for four HL subjects, the three highest grades count).
    i. The candidate has gained 9 points or more on SL subjects (candidates who register for two SL subjects must gain at least 5 points at SL).
    j. The candidate has not received a penalty for academic misconduct from the Final Award Committee.

