



Thai-Chinese  
International  
School



School Year  
2026-2027

# High School Course Catalog

Kevin Curran  
Head of High School

Penporn Kaewmark  
Director



ISAT  
International Schools Association of Thailand





# Table of Contents

5	Learning at TCIS
7	TCIS High School Overview
8	TCIS AP Program
12	TCIS IBDP Program
16	TCIS High School Graduation Requirements
20	TCIS High School Courses by Department
21	How to Read the Course Catalog
22	English Department
32	Mathematics Department
42	Science Department
53	Social Studies Department
63	Thai Language Department
71	Chinese Language Department
83	World Languages Department
89	Performing Arts Department
98	Visual Arts Department
105	Physical Education Department
108	Career and Technical Education Department
116	Student Support Services Department
120	Contact Information



# Thai-Chinese International School



# Learning at TCIS

## Welcome

A heartfelt welcome to TCIS and its community. TCIS is an international school that uses an American curriculum (taught by qualified western international teachers) where we emphasize language skills as a key to a good education that will prepare students for a globalized future in the highest caliber colleges and universities in the world. Our rigorous curriculum and inspiring staff help students become 21st century learners and college and future ready.

While building a better tomorrow today, we nurture children in an environment that is conducive to learning with very good facilities. The curriculum focuses on the importance of literacy in all areas whether that is a pure language or numeracy or technical language of computer coding. Our students annually excel and win awards in arts, academics and athletics. TCIS students have been awarded top honors in Thai language and culture, Chinese language acquisition and international speech competitions. Our graduates are admitted to top universities in North America, Europe and Asia.

## Mission

The TCIS MISSION is to deliver a challenging, inquiry-based international education that builds knowledgeable, compassionate leaders. We develop critical thinkers and multilingual communicators fluent in English, Chinese, and Thai, empowering them to impact communities and foster a peaceful, inclusive world.

## Vision

The TCIS VISION is to empower students with diverse academic pathways that foster critical thinking, collaboration, and communication. We strive to develop compassionate, knowledgeable leaders who embrace intercultural understanding and respect. Through rigorous international education, we inspire students to become lifelong learners and responsible global citizens.



## EXPECTED SCHOOLWIDE LEARNING OUTCOMES

INDEPENDENT  
LIFELONG  
LEARNS



EFFECTIVE  
COMMUNICATORS



COMPLEX  
THINKERS

COLLABORATIVE  
WORKERS

GLOBAL  
PARTICIPANTS



# TCIS High School Overview



Thai-Chinese International School (TCIS) is a private, non-profit, co-ed, day school founded in 1995 to provide an English language-based education for the Taiwanese community of Bangkok, as well as the Thai and other international communities. The school curriculum is an extension of progressive American standards-based programs that have been adapted to meet the expectations of the Taiwanese and Thai school community. Mandarin courses are taught with an emphasis on history and culture. English is the medium of instruction in all courses other than Thai, Mandarin, and other foreign languages. All students take both Mandarin and Thai language classes.

The total enrollment at TCIS this academic year is 630 students. 75% are ethnic Thai, 15% Taiwanese, 10% other. There are 189 students enrolled in the high school (9-12) including 37 seniors in the Class of 2025.

TCIS is accredited by the Western Association of Schools and Colleges (WASC), the Thai Ministry of Education (MOE), and the Ministry of Education of the Republic of China. TCIS is also a member of the East Asia Regional Council of Overseas Schools (EARCOS).

# TCIS AP Program

The TCIS AP Program offers high school students the equivalent of first year university study in a variety of areas at selected universities. Individual courses go into great depth and prepare students to take the external AP examination administered by the College Board organization, based in the United States. The exams are taken to earn either advanced standing or university credit in the USA, Canada, and many other countries. Students applying to competitive schools in the US, Canada, United Kingdom or Taiwan should consider AP as a necessary component in preparing for admission. While AP coursework is demanding, it is beneficial to students, even those who do not perform well on the external exam, because of the demand for critical thinking.

## General Guidelines for Placement into an Advanced Placement (AP) Course

AP courses require a long-term commitment from students. AP courses are weighted more heavily (.5 points higher), so students can earn a higher GPA for completion of these courses. Generally, AP courses are appropriate for well qualified students entering their junior or senior year of study. For these reasons, students must demonstrate the following before being admitted to AP courses:

- Most recent grade in subject area is a 'B+'
- 'B' or higher in most recent English course
- Teacher recommendation and Counselor approval
- A high level of motivation, and an understanding and acceptance of the increased homework demand
- A commitment to complete all the requirements of the AP courses in which the student enrolls, including the external exam (students who fail to complete the end of year exam will not have their course weighted more heavily).

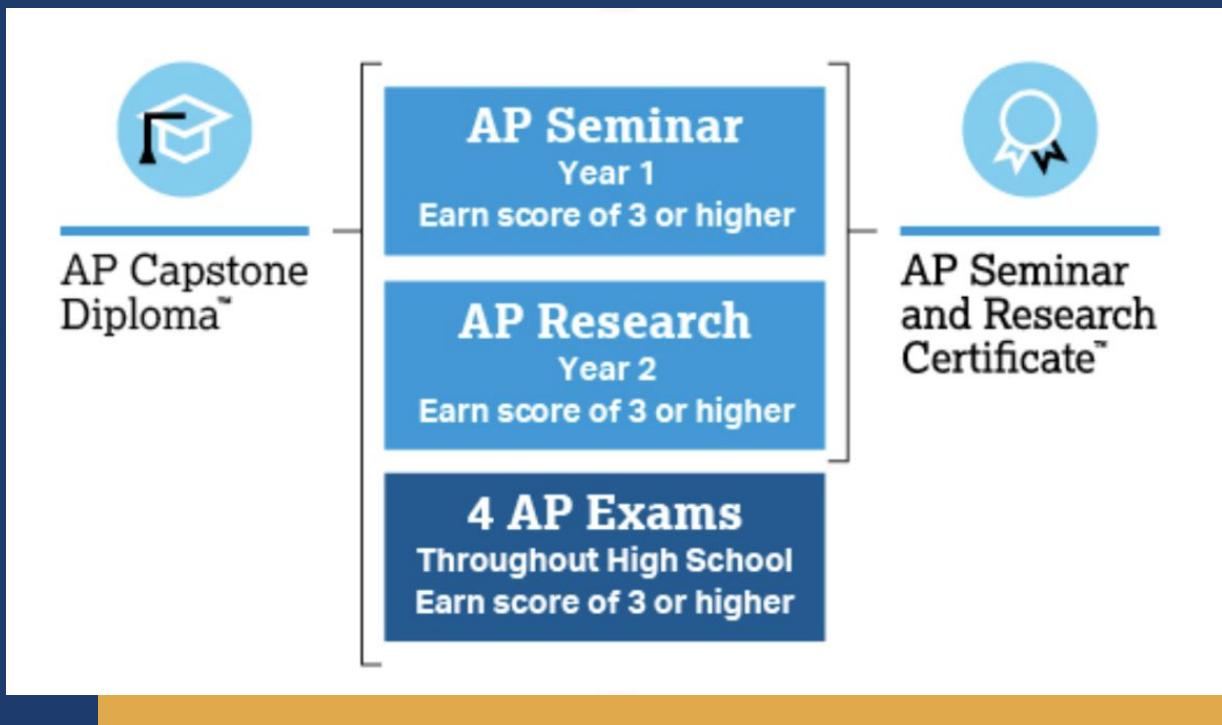
# 2025-2026\* AP Courses

AP Chinese  
AP Biology  
AP Chemistry  
AP Physics I  
AP Computer Science A  
AP Microeconomics  
AP Comparative Government  
AP Human Geography  
AP Seminar  
AP Research  
AP English Literature and Composition  
AP Pre-Calculus  
AP Calculus AB  
AP Calculus BC  
AP Music Theory

\*The exact AP course offering will be determined based on availability of staffing, student interest, and alignment with the overall direction of the high school.



# AP Capstone Program



The Thai-Chinese International School has achieved the distinction of being an AP Capstone school, authorized by the College Board. AP Capstone is a diploma program from the College Board. It's based on two year-long AP courses: AP Seminar and AP Research. Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world.

Students can earn the AP Capstone Diploma or the AP Seminar and Research Certificate. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate.

# AP Scholar Awards

## (by The College Board)

Visit [AP International Diploma](#) for more info about the APID.

Award	Criteria
AP Scholar	Granted to students who receive scores of 3 or higher on three or more AP Exams.
AP Scholar with Honor	Granted to students who receive an average score of at least 3.25 on all AP Exams taken, <b>and</b> scores of 3 or higher on four or more of these exams.
AP Scholar with Distinction	Granted to students who receive an average score of at least 3.5 on all AP Exams taken, <b>and</b> scores of 3 or higher on five or more of these exams.
AP International Diploma (APID)	Visit <a href="#">APID</a> to see the criteria for this award.

### Qualification Details

- There are two steps to determining award winners:
  1. The student's average AP Exam score is calculated based on all exams taken this year and in previous years.
  2. The student's AP Exam scores are checked to see which ones count toward the various AP Scholar Awards.
- A student must meet all criteria to be eligible. For example, a student who has a 3.25 AP Exam score average but only received a 3 or higher on 3 exams will not receive the AP Scholar with Honor Award because the minimum requirement is a score of 3 or higher on 4 or more exams.
- Exams taken multiple times count only once; the highest score will be used for the award calculation.
- The AP Calculus AB subscore for the AP Calculus BC Exam and the aural subscore and nonaural subscore for the AP Music Theory Exam are not used in the AP Scholar Award calculations.
- The AP Scholar Awards are academic distinctions that students may cite among their credentials on applications, résumés, and so on. Students do not receive any monetary award from the College Board.

# TCIS IBDP Program

IBDP Candidate School

The IBDP is a globally recognized pre-university program designed for students aged 16-19. It emphasizes critical thinking, international-mindedness, and a holistic approach to education. The program prepares students for higher education and beyond, fostering attributes of the IB Learner Profile, such as being inquirers, thinkers, and communicators.

## **IB Diploma Programme Full Diploma and Course-Only Enrollment:**

Initial enrollment is available for students entering Grade 11. All IBDP courses are two-year courses, and students must complete the full course and accompanying external assessments to receive IBDP credit on their transcript. Students who join IBDP courses but choose not to continue in the IB Diploma Programme or sit the external assessment may still receive TCIS course credit to count toward their graduation requirements.

Our IBDP admissions process involves a holistic assessment approach that considers both academic achievements and non-academic qualities. In addition to evaluating academic performance, we place significant emphasis on attributes such as creativity, international-mindedness, and personal reflection, particularly for students who pursue the full diploma. We seek to admit students who not only excel academically but also embody the IB Learner Profile attributes, indicating their readiness for the comprehensive and challenging nature of the IB Diploma Programme.

# IB Diploma Programme Requirements

## IBDP Overview

Study of SIX subjects covering major fields of learning.

3 subjects studied at Higher Level (HL) to allow for specialization in certain areas.

3 subjects studied at Standard Level (SL) to ensure a broad education.

\*Participation in an interdisciplinary course entitled Theory of Knowledge (TOK).

\*Submission of an Extended Essay (EE), of no more than 4000 words (4800 words in Chinese), on a topic of the student's choice.

\*Participation in a program of Creativity, Action, and Service (CAS).

\*\*\*Collectively, TOK, EE, and CAS are known as the IBDP Core.

## Subject Groups

Group 1 - Studies in Language and Literature

Group 2 – Language Acquisition

Group 3 - Individuals and Societies

Group 4 - Experimental Sciences

Group 5 – Mathematics

Group 6 - The Arts\*\*

\*\*Students may opt to study an additional course from Groups 1, 3, or 4 instead of a course in the arts

# IBDP

# Courses Offered

Listed below you can find the courses for each group that TCIS plans to offer for the initial cohort. These courses were selected based on student interest and the availability of staff and facilities. TCIS plans to add additional courses for subsequent cohorts.

## **Group 1 - Studies in Language and Literature**

English A – Language and Literature (HL/SL) +  
Chinese A – Language and Literature (HL/SL) +  
Thai A – Language and Literature (HL/SL) +

## **Group 2 – Language Acquisition**

Chinese B (HL/SL) +  
English B (HL/SL) +

## **Group 3 - Individuals and Societies**

Economics (HL/SL) +

## **Group 4 - Experimental Sciences**

Biology (HL/SL) +  
Chemistry (HL/SL) +  
Physics (HL/SL) +  
Computer Science (HL/SL) +

## **Group 5 – Mathematics**

Mathematics Applications & Interpretation (HL/SL) +  
Mathematics Analysis & Approaches (HL/SL) +

## **Group 6 - The Arts\*, \*\***

\*Students in Cohort 1 have opted to study an additional course from Groups 1 or 4 instead of a course in the arts

\*\*Cohort 1 students interested in a Group 6 course can be facilitated for Film SL via Pamoja.

# IBDP Admissions Requirements

## Criteria for IB Diploma Programme (Full Diploma) Admission:

All students seeking admission to the IB Diploma Programme will be expected to:

- Have successfully completed grades 9 and 10 with no semester grades below a B.
- Have a most recent English Language Arts grade of B+ or higher.
- Satisfy the prerequisites for intended subjects as listed in the course catalog.
- Demonstrate a good work ethic, including consistent attendance, punctuality, preparation and participation in lessons, completion of homework, and meeting deadlines.

## Required Documents for Application

(a) Application form and portfolio including the following elements:

- (i) Copies of the final report card from grade 9 and the most recent report card from grade 10.
- (ii) Letter of intent written by the student on “Why do I want to become an IB Diploma Program student?”
- (iii) Artifacts and descriptions documenting the student’s community service, extracurricular activities, and achievements during 9th and 10th grades

(b) Three sealed letters of recommendation written by 10th grade course teachers, a member of the Student Services team, or the administrative team delivered directly to the IB Diploma Programme coordinator (not given to the student).

(c) A copy of the student’s attendance, discipline, and academic honesty records

## Criteria for IB Diploma Programme Course-Only Admission:

Students seeking admission on a course-only basis have the same requirements as full diploma candidates with a few exceptions:

- Have successfully completed grades 9 and 10 with no semester grades below a B **in the same subject group as the intended course(s)**.
- Submit **one sealed letter of recommendation written by the 9th or 10th grade course teacher for the same subject group**, delivered directly to the IB Diploma Programme coordinator (not given to the student).
- Artifacts and descriptions documenting the student’s community service, extracurricular activities, and achievements during 9th and 10th grades **are not required**.

# TCIS High School Graduation Requirements

Subject	Grade 9-12 Class of 2027-2030 Minimum Credits Required
English	5
Social Studies	2
Mathematics	3
Science	3
Chinese Language (Thai National)	2
Chinese Language (Non-Thai National)	4
Thai Language (Thai National)	4
Thai Language (Non-Thai National)	2
Fine Arts	1
PE/Health	1*
Electives	9
<b>Total Credits</b>	<b>30</b>

\*Students who participate in three or more full competitive varsity sports seasons may receive an equivalency waiver for their PE credit. Students must submit the signed PE Credit for Extracurricular Sports Form at the completion of each varsity sports season for which they wish to receive this credit.

# University Application Recommendations

Department	TCIS Credit Requirements	Recommended Credits	General Recommendations
English	5	5	<ul style="list-style-type: none"><li>• One English and one Math class each year</li></ul>
Math	3	4	<ul style="list-style-type: none"><li>• Complete a minimum of Pre-Calculus, but Calculus is preferred.</li></ul>
Science	3	3	<ul style="list-style-type: none"><li>• Science classes should include Biology, Chemistry, and Physics.</li></ul>
Social Studies	2	3	<ul style="list-style-type: none"><li>• Completing 4 credits of Science and Social Studies can make you more competitive for college.</li></ul>
Mother Tongue	4	4	<ul style="list-style-type: none"><li>• AP classes show colleges you are challenging yourself; completing 3+ AP classes is preferred.</li></ul>
Foreign Tongue	2	2	
Physical Education	1	1	
Fine Arts	1	1	
Electives	8	6	

# University Applications - Special Considerations

Students who plan to study highly-selective programs such as Engineering or Medicine in Thailand or Taiwan must complete certain advanced requirements for science, mathematics, or both.

In most cases, these courses must be taken during grades 10-12 in order to appear on the student's transcript during the years considered by these universities in these locations.

Location - Program of Study	Requirements
Thailand - Engineering	Physics/AP Physics, Calculus/AP Calculus AB
Thailand - Medicine	Biology/AP Biology, Chemistry/AP Chemistry, Calculus/AP Calculus
Taiwan - Engineering	AP Calculus BC, AP Physics 2, AP Chemistry
Taiwan - Medicine	AP Calculus AB, AP Biology, AP Chemistry

# Sample 4-Year Plan

## Grade 9

English	Advanced Foundations of Lit & Comp
Math	Algebra 1
Science	Biology
Social Studies	World Geography
Mother Tongue	MT 9
Foreign Tongue	FT 1
Physical Education	PE 1
Elective	Intro to Robotics

## Grade 10

English	Creative Writing
Math	Geometry
Science	Chemistry
Social Studies	AP Human Geography
Mother Tongue	MT 10
Foreign Tongue	FT 2
Fine Arts	Wind Ensemble
Elective	Film Lab

## Grade 11

English	College Prep
Math	Algebra 2
Science	Physics
Social Studies	AP Psychology
Mother Tongue	MT 11
Elective	Spanish 1
Elective	Wind Ensemble
Elective	Environmental Science

## Grade 12

English	AP English Literature
Math	Pre-Calculus
Science	AP Chemistry
Social Studies	Modern World History
Mother Tongue	MT 12
Elective	Art 1
Elective	Digital Music Production
Elective	Computer Coding

# Sample IBDP 4-Year Plan

## Grade 9

English	Advanced Foundations
Math (2 cr)	Geometry/Alg 2
Science	Biology
FT Language	Thai I
MT Language	AP Chinese MT
Elective	Art 1
Elective	PE

## Grade 10

English	AP Seminar
English	Global Literature and Composition
Math	AP Precalculus
Science	Chemistry
Science	Physics
FT Language	Thai II
MT Language	Chinese Lit 10
Social Studies	Intro to Economics

## Grade 11 (IBDP Y1)

Group 1	English A 1
Group 2	Chinese B 1
Group 3	Economics 1
Group 4	Computer Science 1
Group 5	Math AA 1
Group 6 (or 1/3/4)	Physics 1
Elective	IBDP Core 1*
Independent Study (0 cr)	

## Grade 12 (IBDP Y2)

Group 1	English A 2
Group 2	Chinese B 2
Group 3	Economics 2
Group 4	Computer Science 2
Group 5	Math AA 2
Group 6 (or 1/3/4)	Physics 2
Elective	IBDP Core 2*
Independent Study (0 cr)	

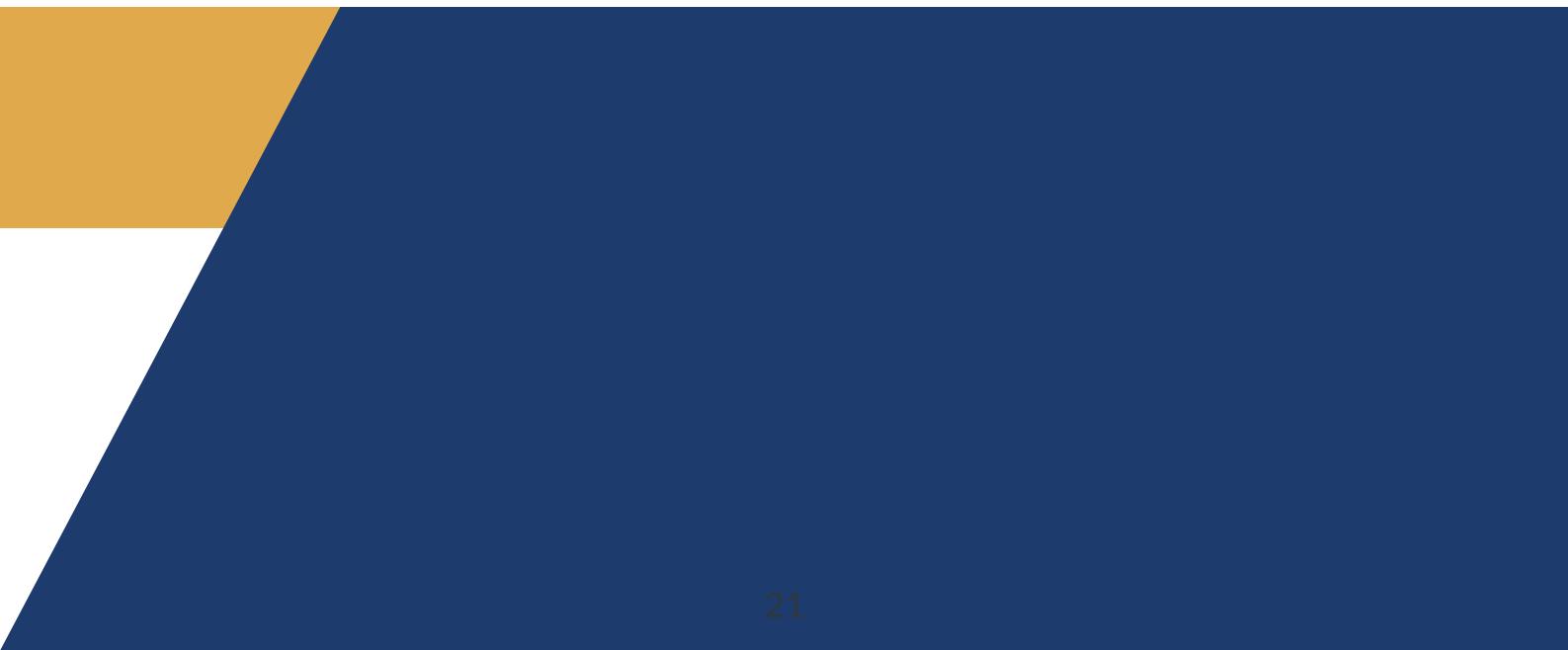
\*IBDP Core includes 50+ hours of TOK learning each year, plus dedicated meeting time for EE and CAS



# TCIS

# High School Courses

## by Department



# How to Read the Course Catalog

Understanding these key elements listed below will assist you in navigating the course catalog effectively and making informed decisions regarding your academic pathway.

## Table of Courses

The table of courses provided for each department outlines the available courses for a particular grade level. Look for the asterisk (\*) to identify recommended courses for each grade level.

## Course Title

A plus symbol (+) next to the course title indicates courses that are tentatively scheduled to be offered in the upcoming school year. This listing is subject to change based on student interest and instructor availability.

## Prerequisites

Listed prerequisite courses are essential requirements for enrollment in specific courses. Students must have successfully completed these prerequisite courses with a minimum grade of 60% or higher.

## Course Description

Course descriptions provide an overview of the material covered in each course. They offer insights into the subjects, objectives, and learning outcomes expected from the course. Understanding these descriptions helps in choosing courses aligned with your interests and academic goals.

## Course Sequence

Courses are typically designed to be taken in a specific sequence to build upon previously acquired knowledge. Enrolling in courses out of sequence or outside the recommended grade level requires a signed recommendation from the course teacher or Head of Department. Final approval by the Head of High School is also necessary in such cases.



# English Department

The English department at TCIS offers a comprehensive range of courses designed to develop students' skills in reading, writing, speaking, listening, research, and language. The curriculum is carefully structured to ensure that students' abilities in these areas are nurtured and honed throughout their four years at TCIS.

Our department focuses on honing students' language skills, nurturing their creativity, and fostering an appreciation for literature's depth and significance. Through engaging and comprehensive coursework, we aim to empower students to become effective communicators, analytical thinkers, and empathetic individuals.

Our curriculum emphasizes a multifaceted approach to language arts, encouraging students to explore diverse literary genres, engage critically with texts, and develop their voices as thoughtful communicators. We believe in providing a rich foundation in literature through a blend of core texts and student-driven choices, fostering a deeper understanding of diverse cultures, perspectives, and human experiences.

<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
Foundations of Literature and Composition*  Advanced Foundations of Literature and Composition*  Journalism  AP Seminar (only as corequisite if taking Advanced Foundations)	Global Literature and Composition*  American Literature and Composition  Creative Writing  Journalism  Speech Communication  AP Seminar*  AP Research*  AP English Language & Composition	American Literature and Composition*  British Literature and Composition  Global Literature and Composition  Creative Writing  College Preparatory English and Composition*  Journalism  Speech Communication  AP English Literature and Composition  AP English Language & Composition*  AP Seminar  AP Research*  IB English A: Language and Literature I	American Literature and Composition*  British Literature and Composition*  Global Literature and Composition  Creative Writing  Journalism  Speech Communication  AP English Language & Composition*  AP English Literature and Composition  AP Research  IB English A: Language and Literature II  IB English B II

# English Department

# Course Offerings

## Foundations of Literature and Composition+

Grade: 9\*

Credit: 1

Prerequisites: None

### Description:

This introductory course serves as a foundation for subsequent years of study in the English department. It focuses on providing students with a strong foundational understanding of the elements of narrative, poetry, and nonfiction texts by requiring students to read and write widely across styles and genres. Students complete multi-draft writing assignments in each of the three CCSS focus areas - informational, argumentative, and narrative - conduct a short research project, and complete several project- and performance-based assessments related to literary analysis. Finally, this course provides students with opportunities for structured vocabulary and grammar study in order to prepare them for success in the upper-level English courses.

## Advanced Foundations of Literature and Composition+

Grade: 9\*

Credit: 1

Prerequisites: Average of B or better in English 8

### Description:

This advanced introductory course would serve as a foundation for subsequent years of study, especially at the AP level. It would provide more advanced instruction in textual elements and analysis, writing, and researching in order to prepare students for future AP English study. This course would follow the big ideas and unit structure of the pre-AP English courses while integrating structured vocabulary and grammar study into each unit. Students would complete enhanced reading, writing, and research assignments aligned with the outcomes of the AP-level English courses (Language, Literature, Seminar, and Research) in order to ensure that they are well-prepared to meet the challenges of these courses.

\*Please note that the “Foundations” level English courses serve as prerequisites (or corequisites) for all other English courses. Therefore, **all grade 9 students MUST select one of the “Foundations” level courses** unless they will be enrolled in an ELL English course. Furthermore, Advanced Foundations of Literature and Composition is a prerequisite for all AP English and Capstone courses, so any student with an interest in future AP English or Capstone courses should select the “Advanced Foundations” course.

# English Department

# Course Offerings

## Global Literature and Composition+

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Foundations/Advanced Foundations of Literature and Comp.

### **Description:**

This course is an integrated reading and writing course. In this class, students read a wide variety of texts from global literature across genres and time periods - fiction, non-fiction, short stories, poetry, speeches, drama, and more. Students use these texts to explore the places and time periods in which they are written, as well as to help them further understand and analyze each genre. Students complete multi-draft writing assignments in each of the three CCSS focus areas - informational, argumentative, and narrative - conduct a short research project, and complete several project- and performance-based assessments related to literary analysis.

## American Literature and Composition+

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Foundations/Advanced Foundations of Literature and Comp.

### **Description:**

This course is an integrated reading and writing course. In this class, students read a wide variety of texts from US literature across genres and time periods - fiction, non-fiction, short stories, poetry, speeches, drama, and more. Students use these texts to explore the places and time periods in which they are written, as well as to help them further understand and analyze each genre. Students complete multi-draft writing assignments in each of the three CCSS focus areas - informational, argumentative, and narrative - conduct a short research project, and complete several project- and performance-based assessments related to literary analysis.

# English Department

# Course Offerings

## British Literature and Composition

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Foundations/Advanced Foundations of Literature and Comp.

### **Description:**

This course is an integrated reading and writing course. In this class, students read a wide variety of texts from British literature across genres and time periods - fiction, non-fiction, short stories, poetry, speeches, drama, and more. Students use these texts to explore the places and time periods in which they are written, as well as to help them further understand and analyze each genre. Students complete multi-draft writing assignments in each of the three CCSS focus areas - informational, argumentative, and narrative - conduct a short research project, and complete several project- and performance-based assessments related to literary analysis.

## College Preparatory English and Composition<sup>+</sup>

**Grade:** 11 ONLY

**Credit:** 1

**Prerequisites:** Foundations/Advanced Foundations of Literature and Comp.

### **Description:**

This course is offered exclusively to students in grade eleven and covers the CCSS while focusing on preparing students for the university application process. Students engage in reading and writing assignments that mirror those found on exams like the SAT and IELTS. They also participate in purposeful vocabulary study tailored to the specific exams they plan to take. In the second semester, students dedicate significant time to preparing university application essays in multiple styles, including US Common Core, University of California, UCAS, Personal Statement/Study Plan (Taiwan), and Portfolio (Thailand).

# English Department

# Course Offerings

## Journalism<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** Foundations/Advanced Foundations of Literature and Comp.

**Description:**

In this course, students will learn how to write, shoot, edit and produce news packages for a weekly news magazine. Students will learn skills necessary in communicating in the print/electronic media with emphasis on writing, interviewing, observing, and reporting. Students will become intelligent consumers of the mass media and learn legal, moral, and ethical responsibilities inherent in the free press.

## Creative Writing<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Foundations/Advanced Foundations of Literature and Comp.

**Description:**

This class focuses on the writing of fictional narrative (short and long), poetry (several styles), and drama, as well as persuasive writing and speaking. Students read short works as mentor texts, then write comparison pieces using similar styles. Students will write multi-draft manuscripts in several styles and genres, finishing the year with a published work (as part of a collection of short stories).

## Speech Communication<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** None

**Description:**

This course provides an introduction to speech communication, focusing on the practical skill of public speaking. Students learn techniques to reduce speaker anxiety and enhance their presentations through the use of visual aids. The course emphasizes civility and ethical speech-making as foundational principles. It aims to prepare students for success in various public speaking situations and equips them with the fundamental principles of organization and research necessary for effective speeches.

# English Department

# Course Offerings

## AP Seminar<sup>+</sup>

**Grade:** 9-11

**Credit:** 1

**Prerequisites:** Advanced Foundations of Literature and Comp. (maybe taken as a co-requisite)

### **Description:**

AP Seminar is the first of two AP Capstone Courses. It is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, evaluate the credibility and relevance of potential sources, synthesize information from multiple sources, and work alone and in a group to communicate their ideas. Work in this class is broken into skill-building workshops, performance tasks, and preparation for the end-of-course exam.

## AP Research<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Advanced Foundations of Literature and Comp. + AP Seminar

### **Description:**

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

# English Department

# Course Offerings

## AP English Language and Composition

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Advanced Foundations of Literature and Comp.

### **Description:**

AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style. Students spend time mastering the three types of AP-exam writing: synthesis, rhetorical analysis, and argument. They also complete regular multiple-choice reading practice that requires them to analyze other authors' style and strategies as well as suggesting the best strategies for improving hypothetical texts.

## AP English Literature and Composition<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Advanced Foundations of Literature and Comp.

### **Description:**

AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. Students spend time mastering the three types of AP-exam writing: literary analysis - poetry, literary analysis - prose/drama, and thematic analysis - student's choice. They also complete regular multiple-choice reading practice that requires them to analyze the style and elements of selected poetry, prose, and drama passages.

# English Department

# Course Offerings

## IB English A: Language and Literature I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Advanced Foundations of Language and Composition; AP Seminar (recommended)

### **Description:**

The language A: language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption.

The course is organized into three areas of exploration and seven central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language A in question through its cultural development and use, its media forms and functions, and its literature.

## IB English A: Language and Literature II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB English A: Language and Composition I

### **Description:**

The language A: language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption.

The course is organized into three areas of exploration and seven central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language A in question through its cultural development and use, its media forms and functions, and its literature.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.

# English Department

# Course Offerings

## IB English B I

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Foundations of Language and Composition

### **Description:**

The language B courses are language acquisition courses for students with some previous experience of the target language. Students develop the ability to communicate in the target language through the study of language, themes and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive and interactive skills across a range of contexts and purposes that are appropriate to the level of the course (and beyond those for language ab initio).

The language B syllabus is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet.

## IB English B II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB English B I

### **Description:**

The language B courses are language acquisition courses for students with some previous experience of the target language. Students develop the ability to communicate in the target language through the study of language, themes and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive and interactive skills across a range of contexts and purposes that are appropriate to the level of the course (and beyond those for language ab initio).

The language B syllabus is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.



# Mathematics Department

The Mathematics department at TCIS offers a comprehensive and progressive sequence of courses designed to cultivate students' mathematical abilities and critical thinking skills. Our curriculum is structured to provide a seamless progression, ensuring students' mastery of mathematical concepts and applications from Algebra 1 through AP Calculus BC and AP Statistics.

Our department is committed to nurturing students' mathematical proficiency, fostering problem-solving skills, and promoting a deep understanding of mathematical principles. Beginning with foundational courses such as Algebra 1 and Geometry, students build a solid mathematical framework that evolves through Algebra 2 and Pre-Calculus, culminating in advanced coursework including AP Calculus AB, AP Calculus BC, and AP Statistics.

Each course is meticulously designed to challenge students and encourage intellectual growth, enabling them to apply mathematical concepts to real-world scenarios. By emphasizing critical thinking, logical reasoning, and analytical skills, our curriculum aims to equip students with the tools needed for success in higher-level mathematics and beyond.

Through a combination of comprehensive coursework, engaging instruction, and practical applications, the Mathematics department at TCIS strives to foster a strong mathematical foundation, empowering students to become confident problem solvers, analytical thinkers, and effective contributors in an increasingly complex and interconnected world.

Grade 9	Grade 10	Grade 11	Grade 12
Algebra 1	Geometry	Algebra 2	Pre-Calculus
Geometry	Algebra 2	Pre-Calculus	AP Pre-Calculus
Geometry/Algebra 2	Geometry/Algebra 2	Calculus	Calculus
	Pre-Calculus	AP Pre-Calculus	AP Calculus AB
	AP Pre-Calculus	AP Statistics	AP Calculus BC
		AP Calculus AB	AP Statistics
		IB Mathematics: Analysis and Approaches I	IB Mathematics: Analysis and Approaches II
		IB Mathematics: Applications and Interpretation I	IB Mathematics: Applications and Interpretation I

# Mathematics Department

## Course Offerings

### Algebra 1+

**Grade:** 9

**Credit:** 1

**Prerequisites:** Pre-Algebra

#### **Description:**

Algebra 1 serves as a foundational high school mathematics course typically undertaken by students in the 8th or 9th grade. This comprehensive curriculum introduces students to fundamental mathematical concepts that are essential for their academic progression. Throughout the course, students will explore key topics, including linear, quadratic, and exponential functions, mathematical modeling, data analysis, and probability.

Algebra 1 adopts a cohesive approach, emphasizing the interconnectedness of these fundamental mathematical concepts. The course aims to provide students with a well-rounded understanding, presenting these ideas as a unified whole rather than isolated fragments. By engaging with real-world applications, students will deepen their understanding of how mathematical principles are employed to analyze and solve everyday problems.

### Geometry+

**Grade:** 9-10

**Credit:** 1

**Prerequisites:** Algebra 1

#### **Description:**

This course delves into the development of critical reasoning and problem-solving skills by exploring fundamental geometric concepts. Students will engage with topics such as congruence and similarity, delving into the intricacies of lines, triangles, quadrilaterals, and circles. A comprehensive exploration of these geometric properties will be undertaken, fostering a deep understanding of their applications and implications.

Throughout the course, emphasis will be placed on the practical application of mathematical principles to solve real-world problems. This problem-solving approach not only solidifies mathematical concepts but also equips students with the skills necessary to tackle tangible, everyday situations.

# Mathematics Department

# Course Offerings

## Algebra 2<sup>+</sup>

**Grade:** 10-11

**Credit:** 1

**Prerequisites:** Algebra 1 and Geometry

### **Description:**

Students will examine further the algebraic concepts covered in Algebra I. An exploration of various functions and their properties will provide students with an understanding of how to describe, graph, translate, and solve non-linear functions. Application of these concepts to real world situations will be emphasized.

Students are required to purchase and to bring to class each day, a TI-84 graphing calculator.

A minimum grade level of C+ is required for Pre-Calculus

## Geometry/Algebra 2<sup>+</sup>

**Grade:** 9-10

**Credit:** 2

**Prerequisites:** Algebra 1 (min 3.0 avg)

### **Description:**

This course combines a full year's worth of Geometry with a full year's worth of Algebra 2. Students will develop reasoning and problem-solving skills as they study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. Students will also develop problem solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real-world problems. An exploration of various functions and their properties will provide students with an understanding of how to describe, graph, translate, and solve non-linear functions.

Students will study Geometry daily during Semester 1 and Algebra 2 daily during Semester 2. Successful completion of all course requirements will award student a double math credit.

# Mathematics Department

## Course Offerings

### Pre-Calculus<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Algebra 2

**Description:**

This course develops the concepts of trigonometry and analytic geometry. Students will study functions and transformations, circular and periodic functions, the laws of sine and cosine, polynomial and rational functions, exponential and logarithmic functions, vectors in two and three dimensions, conic sections, curve sketching, sequence and series, matrices and determinants, parametric equations, polar coordinates, and an introduction to limits. A student successfully completing this course may be recommended for Calculus, AP Calculus AB, and or AP Statistics.

### Calculus<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Pre-Calculus or AP Pre-Calculus

**Description:**

This course covers the foundational principles of Calculus, encompassing the understanding of limits, continuity, derivatives, integrals, and their real-world applications. Topics to be covered include the study of integrals, their antiderivatives, and practical applications, culminating in an exploration of differential equations.

Through this journey, students will acquire a profound understanding of Calculus principles and their practical utility across diverse domains. Emphasis is placed on conceptual comprehension and the application of mathematical theories to address real-world challenges, fostering a robust skill set for problem-solving and critical thinking.

# Mathematics Department

## Course Offerings

### AP Precalculus<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Algebra 2

**Description:**

AP Precalculus prepares students for other college-level mathematics and science courses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

### AP Calculus AB<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Pre-Calculus or AP Precalculus

**Description:**

AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

# Mathematics Department

# Course Offerings

## AP Calculus BC<sup>+</sup>

**Grade:** 12

**Credit:** 1

**Prerequisites:** Calculus or AP Calculus AB

**Description:**

AP Calculus BC is an introductory college-level calculus course equivalent to two semesters of university study. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

## AP Statistics

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Algebra 2

**Description:**

The AP Statistics course introduces students to the major concepts and tools for collecting, organizing, analyzing and drawing conclusions from data. There are four main themes evident in the content, skills and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

# Mathematics Department

# Course Offerings

## IB Mathematics: Analysis and Approaches I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Pre-calculus

## IB Mathematics: Analysis and Approaches II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Mathematics: Analysis and Approaches I

### **Description:**

The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach.

Students are encouraged to apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. Mathematics: analysis and approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Students should expect to develop insight into mathematical form and structure.

### **Description:**

The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach.

Students are encouraged to apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. Mathematics: analysis and approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Students should expect to develop insight into mathematical form and structure.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.

# Mathematics Department

## Course Offerings

### IB Mathematics: Application and Interpretation I

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Pre-calculus

### IB Mathematics: Application and Interpretation II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Mathematics: Application and Interpretation I

#### **Description:**

The IB DP Mathematics: applications and interpretation course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. Students are encouraged to solve real-world problems, construct and communicate this mathematically and interpret the conclusions or generalizations.

#### **Description:**

The IB DP Mathematics: applications and interpretation course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. Students are encouraged to solve real-world problems, construct and communicate this mathematically and interpret the conclusions or generalizations.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.





# Science Department

The Science department at TCIS offers a comprehensive array of courses meticulously designed to foster scientific inquiry, critical thinking, and a deep appreciation for the natural world. Our curriculum spans a diverse spectrum of scientific disciplines, ranging from foundational courses like Biology, Chemistry, and Physics to advanced offerings such as AP Biology, AP Chemistry, and AP Physics.

Our department is dedicated to cultivating a passion for scientific exploration and discovery, nurturing students' curiosity, and equipping them with essential scientific knowledge and skills. Beginning with foundational courses, students engage in hands-on experimentation, theoretical learning, and practical applications, developing a strong understanding of scientific principles. Through a combination of laboratory investigations, theoretical studies, and interactive learning experiences, our curriculum aims to instill critical thinking, analytical reasoning, and problem-solving abilities.

The Science department at TCIS is dedicated to nurturing students' scientific curiosity, fostering a strong foundation in scientific knowledge, and empowering them to become informed, responsible, and scientifically literate global citizens prepared to navigate and contribute to an ever-evolving world.

Grade 9	Grade 10	Grade 11	Grade 12
Biology*	Biology	Chemistry	Physics
Environmental Science	Chemistry*	*Physics	Physics II
Health Science	Physics	Physics II	Health Science
	Health Science	AP Biology	AP Biology
	Anatomy	AP Chemistry	AP Chemistry
	Environmental Science	AP Physics I	AP Physics I
	Astronomy	Health Science	AP Physics II
		Anatomy	Anatomy
		Environmental Science	Environmental Science
		Astronomy	Astronomy
		IB Biology I	IB Biology II
		IB Chemistry I	IB Chemistry II
		IB Physics I	IB Physics II
			IB Computer Science II

# Science Department

# Course Offerings

## Biology<sup>+</sup>

**Grade:** 9-10

**Credit:** 1

**Prerequisites:** None

### **Description:**

This exciting course will enhance many of the skills you will need to be successful in the multiple disciplines of the life sciences. We live in a fascinating world! During this course, we will be studying amazing life forms, genetics, DNA, evolution, ecology and the molecular basis for life on earth. The goal of this course is to introduce the student to the complex processes involved in the functioning of living organisms from the cellular and molecular level to the interdependence of life forms on the evolutionary, ecological and global scale.

## Chemistry<sup>+</sup>

**Grade:** 10-11

**Credit:** 1

**Prerequisites:** None

### **Description:**

Chemistry is the study of matter and how it changes. Throughout this course, we will focus on three questions:

- How do we view matter?
- How does matter behave?
- How is energy involved in the changes we observe?

This course is a general survey of chemistry with an emphasis on problem-solving, using experimental data to support claims, and developing models to explain observations.

Students will engage in speaking and practicing science. They will focus on describing matter and explaining its behavior through the development and use of particle models. Students will build upon chemical concepts through problem-solving, experimentation, and argumentation. The need to modify models based on new observations will be emphasized.

# Science Department

# Course Offerings

## Physics 1+

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Algebra 1, Geometry

### **Description:**

The emphasis of the course is on a conceptual understanding of the topics covered. Problem-solving and lab exercises are used to demonstrate, reinforce, and clarify concepts. The following topics are investigated in this course:

- Measurement And Significant Digits
- One And Two Dimensional Motion
- Forces And Laws Of Motion
- Work And Energy
- Momentum And Impulse
- Circular Motion And Torque
- Electrostatics And Magnetism
- Electricity And Circuits

## Physics 2

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Physics 1, Geometry, Algebra 2

### **Description:**

The emphasis of the course is on a conceptual understanding of the topics covered. Problem-solving and lab exercises are used to demonstrate, reinforce, and clarify concepts. The following topics are investigated in this course:

- Kinematics And Dynamics (Review)
- Fluid Mechanics
- Thermodynamics
- Static And Current Electricity
- Magnetism
- Oscillations And Waves

# Science Department

# Course Offerings

## Health Science<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

Health Science is a one year basic science course taken at the high school level for a science elective credit. Students taking this course may be progressing towards a degree in health sciences. However, this class will be beneficial to all high school students and will focus on how to improve your overall health. The course focuses on three aspects of health: mental, physical, and social health. In the mental health unit, topics include discussions on wellness, stress, mental disorders, and decision making. For physical health, emphasis includes disease prevention, nutrition, and exercise. The social health unit stresses relationships, dating, drug abuse, and sex education. Students taking the course may participate in a First Aid and CPR certification course held by a medical professional organization.

## Environmental Science<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

Environmental science is a multidisciplinary course, integrating biology, ecology, geology, environmental science, chemistry and physics. It is designed to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze the environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and preventing them.

# Science Department

# Course Offerings

## Anatomy<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** None

**Description:**

During this course students will explore how living things function, with special emphasis on the human body. Each unit will have tutorials on slides, videos, articles about a specific tissue or organ system; and then we will do a lab and/or a case study on that part. This is a fascinating introductory course for students who wish to pursue a career in the medical field. (doctor, nurse, veterinarian, pharmacy, forensics, coroner, etc.).

## Astronomy<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Physics (or teacher recommendation)

**Description:**

The course explores key astronomical concepts, including the structure and movement of planets, moons, and stars, as well as the formation of galaxies and the expansion of the universe. Students will examine astronomical tools and techniques, such as telescopes and space-based observatories, and learn about modern discoveries in black holes, supernovas, quasars, and wormholes. Additional topics include space exploration, the Hubble Telescope, the International Space Station, and theoretical discussions on time travel and dark matter.

This course provides a foundational understanding of astronomy while encouraging critical thinking about the mysteries of space.

# Science Department

# Course Offerings

## AP Biology<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Biology (or teacher recommendation)

### **Description:**

This AP biology course is designed to enhance the students' science practices and depth of understanding by deemphasizing a traditional "content coverage" model of instruction in favor of one that focuses on enduring, conceptual understandings and the content that supports them. This approach enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, helping them develop the ability to think and understand as a scientist.

This framework encourages student development of inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and justifying arguments using evidence. The result will be readiness for the study of advanced topics in subsequent college courses—a goal of every AP course.

## AP Chemistry<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Chemistry (or teacher recommendation)

### **Description:**

The purpose of AP Chemistry is to provide a college level course in chemistry and to prepare the student to seek credit and/or appropriate placement in college chemistry courses. This course enables students to deepen their understanding of chemistry through the study of structure and states of matter, energy changes and rates of reactions, chemical systems and equilibrium, electrochemistry, and atomic and molecular structure. Students will further develop problem-solving and laboratory skills as they investigate chemical processes, at the same time refining their ability to communicate scientific information.

# Science Department

# Course Offerings

## AP Physics 1+

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Algebra 2, Physics 1 (or teacher recommendation)

### **Description:**

AP Physics I is organized around six big ideas that bring together fundamental science principles and theories of general physics. These big ideas are intended to encourage students to think about physics concepts as interconnected pieces of a puzzle. The solution to the puzzle is how the real world around them actually works. The students will participate in inquiry-based explorations of these topics to gain a more conceptual understanding of physics. Students will be encouraged to approach problems in their own way and to learn from each other.

## AP Physics 2

**Grade:** 12

**Credit:** 1

**Prerequisites:** AP Physics 1 (or teacher recommendation)

### **Description:**

AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, waves, and probability.

# Science Department

# Course Offerings

## IB Biology I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Biology

### **Description:**

As the study of living organisms, biology is essential for explaining the complexities of life. This subject emphasizes the interconnectedness of all life forms and the balance within ecosystems. Among the sciences, biology is often referred to as the "science of life" because of its foundational role in understanding the natural world. It is therefore often a prerequisite for many other courses in higher education, such as medicine and healthcare, biological and life sciences, environmental sciences and ecology, agricultural and veterinary sciences, biomedical sciences, public health and epidemiology, and forensic science. As an experimental science, DP biology requires not only a theoretical understanding of the subject, but also an awareness of how biologists construct knowledge claims and the limitations of these methods.

## IB Biology II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Biology I

### **Description:**

As the study of living organisms, biology is essential for explaining the complexities of life. This subject emphasizes the interconnectedness of all life forms and the balance within ecosystems. Among the sciences, biology is often referred to as the "science of life" because of its foundational role in understanding the natural world. It is therefore often a prerequisite for many other courses in higher education, such as medicine and healthcare, biological and life sciences, environmental sciences and ecology, agricultural and veterinary sciences, biomedical sciences, public health and epidemiology, and forensic science. As an experimental science, DP biology requires not only a theoretical understanding of the subject, but also an awareness of how biologists construct knowledge claims and the limitations of these methods.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.

# Science Department

# Course Offerings

## IB Chemistry I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Chemistry

### **Description:**

Chemistry helps explain the properties and behavior of matter, which is fundamental to understanding the world around us. The DP chemistry course therefore emphasizes the development of representative models and explanatory theories, both of which rely heavily on creative but rational thinking. Through studying DP chemistry, students will become aware of how scientists work and communicate with each other and of the ethical debates and limitations of creative scientific endeavour.

Chemistry is often called the central science as chemical principles underpin both the physical environment in which we live and all biological systems. It is therefore often a prerequisite for many other courses in higher education, such as medicine, environmental science and engineering.

## IB Chemistry II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Chemistry I

### **Description:**

Chemistry helps explain the properties and behavior of matter, which is fundamental to understanding the world around us. The DP chemistry course therefore emphasizes the development of representative models and explanatory theories, both of which rely heavily on creative but rational thinking. Through studying DP chemistry, students will become aware of how scientists work and communicate with each other and of the ethical debates and limitations of creative scientific endeavour.

Chemistry is often called the central science as chemical principles underpin both the physical environment in which we live and all biological systems. It is therefore often a prerequisite for many other courses in higher education, such as medicine, environmental science and engineering.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.

# Science Department

# Course Offerings

## IB Physics I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Physics

### **Description:**

As an experimental science, the Diploma Programme (DP) physics course requires not only a theoretical and practical understanding of the subject, but also an awareness of how physicists construct knowledge claims and the limitations of these method.

Physics is the most fundamental of the experimental sciences, as it seeks to explain the universe itself from the very smallest particles to the vast distances between galaxies. The DP physics course requires a mathematical approach to the subject content to ensure an understanding of models, theories and laws. Data analysis is a key skill in DP physics and many opportunities to develop this are provided through the experimental programme.

## IB Physics II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Physics I

### **Description:**

As an experimental science, the Diploma Programme (DP) physics course requires not only a theoretical and practical understanding of the subject, but also an awareness of how physicists construct knowledge claims and the limitations of these method.

Physics is the most fundamental of the experimental sciences, as it seeks to explain the universe itself from the very smallest particles to the vast distances between galaxies. The DP physics course requires a mathematical approach to the subject content to ensure an understanding of models, theories and laws. Data analysis is a key skill in DP physics and many opportunities to develop this are provided through the experimental programme.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.



# Social Studies Department

The Social Studies department at TCIS offers an inclusive range of courses aimed at nurturing students' understanding of global perspectives, historical contexts, and socio-political dynamics. Our department prioritizes the development of critical thinking, analytical skills, and a broadened worldview. Through engaging coursework, we aim to foster students' ability to analyze historical events, comprehend cultural diversity, and appreciate the interconnectedness of global societies.

Emphasizing a multifaceted approach, our curriculum encourages students to explore diverse topics such as AP Comparative Government and Politics, AP Human Geography, and AP Microeconomics. These courses offer in-depth insights into political systems, geographic contexts, and economic principles, preparing students for informed civic engagement and global citizenship.

Our commitment to cultivating well-informed, empathetic, and socially conscious individuals extends beyond theoretical learning. Through interactive discussions, research projects, and critical analysis, our courses aim to equip students with the tools to navigate an ever-evolving world, fostering a deeper understanding of diverse cultures, perspectives, and human experiences.

Grade 9	Grade 10	Grade 11	Grade 12
Business Economics	Business Economics	Business Economics	
Modern World History	Advanced Business	Advanced Business	
Psychology	Modern World History	Modern World History	
World Geography and Cultures	Psychology	Psychology	
AP Human Geography	World Geography and Cultures	World Geography and Cultures	
	AP Human Geography	Philosophy, Politics, and Economics	
	AP Modern World History	AP Comparative Government and Politics	
	AP Psychology	AP Human Geography	
		AP Macroeconomics	
		AP Microeconomics	
		AP Modern World History	
		AP Psychology	
		IB Economics I	IB Economics II
		IB Geography I	IB Geography II

# Social Studies Department

## Course Offerings

### World Geography and Cultures<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

In World Geography and Culture, students will learn about the diverse cultures found around the world. We will specifically focus on how geography and environmental factors affect the way cultures develop and interact. World Geography and Culture gives students a greater understanding and appreciation of cultural diversity and helps students understand the changes taking place around the world. Current events are also a big part of this course and are used to explore what life is like and the challenges that people face in different places around the world.

### Modern World History<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

In Modern World History, students investigate significant events, individuals, developments, and processes in history from around the year 1200 to the present day. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides themes that students explore throughout the course in order to make connections among historical developments in different times and places:

- Migration and Settlement
- Politics and Power
- Work, Exchange, and Technology
- Geography and the Environment
- Culture and Society

# Social Studies Department

## Course Offerings

### Business Economics<sup>+</sup>

Grade: 10-12

Credit: 1

Prerequisites: None

**Description:**

Business Economics is a college-level course that introduces students to the various disciplines of business and entrepreneurship.

This is an introduction to business and covers topics including ethics; economics; competing globally, forms of business ownership including entrepreneurship; management and human resources; motivation; operations; products, promotion, marketing and pricing; distribution; and finance (accounting, financing, money and financial institutions).

The course places particular emphasis on students developing their own business ideas and associated plans.

### Advanced Business<sup>+</sup>

Grade: 10-12

Credit: 1

Prerequisites: Business Economics (or teacher recommendation)

**Description:**

Advanced Business and Economics is a college level course that introduces students to a real world application of business and entrepreneurship. Utilizing a hands on approach to the class. Students will be asked to use many class periods creating and collaborating with other students.

This is a class built on from the previous business and economics class. The goal of the class is taking the information from the last class and putting it into real world applications. Looking at massive businesses like Amazon, Apple, and Nike. How do those multinational conglomerates actually impact the world? Is it net positive or net negative? How does this next generation impact the world? How has the world changed in the past 20 years? Where will the world be in the next 20 years? These are questions we as a team will try to answer.

# Social Studies Department

## Course Offerings

### Psychology<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

The purpose of this course in Psychology is to introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students will be exposed to the basic psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the methods psychologists use in their science and practice.

### Philosophy, Politics, and Economics<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

Philosophy, Politics, and Ethics is a college level course that introduces students to the various fields of the humanities. This course is a base for a common major seen in the western school systems. This class will attempt to connect the topics together to find answers to why certain issues become or prominent difficulties inspire.

Starting with philosophical theory into ways humans can act in situations, then moving to political theory in the comparison of the authoritarian and democratic theories. Finding commonalities of countries and philosophy in politics. Lastly, tackling the big question, “why do we do what we do?” with the ethical aspects, finding a connection between the previous two main parts and how it impacts our daily actions.

# Social Studies Department

## Course Offerings

### AP Human Geography<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socio-economic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

### AP Psychology

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** None

**Description:**

AP Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology.

# Social Studies Department

## Course Offerings

### AP Macroeconomics<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

### AP Microeconomics

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

AP Microeconomics is a college-level course that introduces students to the principles that apply to an economic system at a business and local level. The course places particular emphasis on the study of scarcity. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, types of economies, and business level economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

# Social Studies Department

## Course Offerings

### AP Modern World History

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** None

**Description:**

In this course, 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 Comparative Government

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** None

**Description:**

The AP Comparative Government and Politics Course and Exam Description defines what representative colleges and universities typically expect students to know and be able to do in order to earn college credit or placement. Students practice the skills used by comparative political scientists by studying data, political writings from different countries, and the processes and outcomes of politics in a variety of country settings. Students will show mastery of these skills on the AP Exam through various means, including applying concepts, analyzing data, comparing countries, and writing political science arguments. Students study six countries in AP Comparative Government and Politics: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom.

# Social Studies Department

# Course Offerings

## IB Geography I

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** World Geography and Cultures (or teacher recommendation)

### **Description:**

Geography is a dynamic subject firmly grounded in the real world, and focuses on the interactions between individuals, societies and physical processes in both time and space. It seeks to identify trends and patterns in these interactions. It also investigates the way in which people adapt and respond to change, and evaluates actual and possible management strategies associated with such change. Geography describes and helps to explain the similarities and differences between different places, on a variety of scales and from different perspectives. The course integrates physical, environmental and human geography, and students acquire elements of both socio-economic and scientific methodologies.

## IB Geography II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Geography I

### **Description:**

Geography is a dynamic subject firmly grounded in the real world, and focuses on the interactions between individuals, societies and physical processes in both time and space. It seeks to identify trends and patterns in these interactions. It also investigates the way in which people adapt and respond to change, and evaluates actual and possible management strategies associated with such change. Geography describes and helps to explain the similarities and differences between different places, on a variety of scales and from different perspectives. The course integrates physical, environmental and human geography, and students acquire elements of both socio-economic and scientific methodologies.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.

# Social Studies Department

# Course Offerings

## IB Economics I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Intro to Business Economics (or teacher recommendation)

**Description:**

Economics is an exciting, dynamic subject that allows students to develop an understanding of the complexities and interdependence of economic activities in a rapidly changing world.

At the heart of economic theory is the problem of scarcity. While the world's population has unlimited needs and wants, there are limited resources to satisfy these needs and wants. As a result of this scarcity, choices have to be made. The DP economics course, at both SL and HL, uses economic theories to examine the ways in which these choices are made.

## IB Economics II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Economics I

**Description:**

Economics is an exciting, dynamic subject that allows students to develop an understanding of the complexities and interdependence of economic activities in a rapidly changing world.

At the heart of economic theory is the problem of scarcity. While the world's population has unlimited needs and wants, there are limited resources to satisfy these needs and wants. As a result of this scarcity, choices have to be made. The DP economics course, at both SL and HL, uses economic theories to examine the ways in which these choices are made.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.



# Thai Language Department

The Thai Language department at TCIS is committed to fostering language proficiency, cultural appreciation, and effective communication in Thai. Our curriculum offers a comprehensive sequence of courses, including Mother Tongue Thai and Foreign Tongue Thai series, catering to students' varying language proficiencies and backgrounds.

With a focus on nurturing language skills, our department aims to develop students' proficiency in reading, writing, speaking, and listening. The Mother Tongue Thai courses cater to students fluent in Thai, fostering a deeper understanding of the language's nuances, literature, history and cultural aspects.

The Foreign Tongue Thai series is designed for students who are new to the language, offering a structured curriculum that introduces fundamental language components, vocabulary, history, and cultural aspects. Through engaging coursework and interactive learning experiences, students build their language skills progressively, from basic communication to more advanced language proficiency.

Our curriculum encourages students to explore diverse aspects of Thai language, history, and culture. By blending core language components with student-driven choices, we aim to foster a deeper understanding of Thai traditions, customs, and societal norms, enabling students to navigate and appreciate diverse cultural perspectives and human experiences within the Thai context.

Overall, the Thai Language department at TCIS strives to equip students with language proficiency, cultural competency, and effective communication skills, promoting a deeper appreciation for Thai language, literature, history and culture among students from varying linguistic backgrounds.

Grade 9	Grade 10	Grade 11	Grade 12
Mother Tongue Thai 9	Mother Tongue Thai 10	Mother Tongue Thai 11 IB Thai A: Language and Literature I	Mother Tongue Thai 12 IB Thai A: Language and Literature II
Foreign Tongue Thai I*	Foreign Tongue Thai II*	Foreign Tongue Thai III*	Foreign Tongue Thai IV*
<i>*Placement in Foreign Tongue Thai courses is based on Thai proficiency test results and Thai teacher recommendation.</i>			

# Thai Language Department

# Course Offerings

## Mother Tongue Thai 9+

**Grade:** 9

**Credit:** 1

**Prerequisites:** None

### **Description:**

This high school Thai course provides a solid foundation in the language while nurturing critical thinking skills across all units. Students engage deeply with Thai grammar, focusing on the crucial concept of "Tri-yang," vital for understanding orthography and evolving language usage. The course offers an immersive exploration of the renowned Thai literary work "Khun Chang Khun Phaen," enabling students to glean insights into life through literature. Contemporary literary pieces serve as mirrors reflecting present-day society, particularly delving into the theme of materialism in Thai culture.

The course extends beyond language and literature, encouraging students to actively participate in cultural activities, fostering collaboration and learning from seniors to shape responsible citizenship. This holistic approach aims to equip students not only with linguistic prowess but also with a deeper understanding of Thai culture, history, and civic engagement.

## Mother Tongue Thai 10+

**Grade:** 10

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course will build on the skills developed in Thai grade 9 in preparation for higher-level Thai courses. Students will study "Laksananam" or classifier and word construction as Thai identity. Students learn to understand and analyze the origin of teenagers' language therefore they can choose to use properly. Students will study Thai literature "Mattanaphatha" that will guide them to understand and realize the ways of life. "Mattanaphatha" reflects norms and social values about Thai women in the King Rama VI era, which are still on Thai people's mind. Students will create historical documentaries by using various techniques that make the documentary alive. Students also learn to be thoughtful people who think of others, society and the environment through working with their groups in Thai culture events.

# Thai Language Department

# Course Offerings

## Mother Tongue Thai 11<sup>+</sup>

**Grade:** 11

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course aims to further enhance students' language skills, particularly in utilizing language across various contexts. It equips students with the ability to communicate effectively across different social hierarchies. By delving into the masterpiece literature "I-Nao," students will engage in critical analysis of characters and situations, unraveling intricate thoughts that offer valuable insights for their lives.

Exploring contemporary literary works depicting societal conflicts will prompt students to dissect the root causes of these issues and foster a more empathetic approach to life.

Additionally, the course delves into the historical context of the disputes between Thailand and France during King Rama V's reign. This historical exploration through discourse aims to broaden students' perspectives, enabling them to comprehend the decisions made by their predecessors and better prepare them for the present and future.

## Mother Tongue Thai 12<sup>+</sup>

**Grade:** 12

**Credit:** 1

**Prerequisites:** None

### **Description:**

In the senior class, students will apply the knowledge gained from grades 9 through 11. Our main focus is on nurturing 'lateral thinking'. The study of the Thai language and its wisdom, especially through Thai idioms and rhymes, aims to foster an appreciation for Thai language and culture. Exploring the biographies of outstanding individuals will deepen students' understanding of life's complexities, emphasizing the pursuit of a meaningful existence. In Thai literature, students will explore more intricate works like LiLit Pralor, delving into human nature and its significance. Students will engage with contemporary literary pieces focused on 'Identity', prompting reflection on their self-esteem and sense of self. Additionally, the curriculum will delve into the historical revolution during King Rama VII's era, marking the transition from monarchy to democracy and offering insights into Thailand's socio-political transformation.

# Thai Language Department

# Course Offerings

## Foreign Tongue Thai I<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course aims to equip non-native Thai speakers with fundamental grammar concepts, historical knowledge, and cultural insights. Students will enhance their communication abilities, with a particular focus on speaking and listening skills. They'll engage in conversational practice covering greetings, introductions, giving directions, making purchases, and discussing leisure activities.

## Foreign Tongue Thai II<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course is designed to develop fundamental language skills and cultural knowledge for non-native speakers. Emphasis is placed on learning and practicing oral expression and comprehension of spoken discourse in informal settings. Students will be immersed in the traditions and beliefs of Thailand and Thai people through Thai literature.

# Thai Language Department

# Course Offerings

## Foreign Tongue Thai III<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course offers non-native Thai speakers an exploration of Thai lifestyles and beliefs, focusing on enhancing reading, writing, speaking, and listening abilities. It emphasizes comprehending Thai society via literary texts and cultivating critical thinking skills using supplementary learning materials.

## Foreign Tongue Thai IV<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course aims to equip advanced non-native Thai speakers with comprehensive knowledge and skills in Thai language and culture, emphasizing versatile language use across contexts. By the end of the course, students will proficiently converse and write in diverse formats, applying Thai cultural concepts to their daily experiences.

## Thai FT Language and Culture<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course introduces non-native Thai speakers to the language through meaningful engagement with Thai customs, values, and cultural practices. Students strengthen their reading, writing, speaking, and listening skills while exploring contemporary and traditional aspects of Thai society. Emphasis is placed on interpreting cultural themes through authentic texts and developing critical thinking through varied supplementary materials.

# Thai Department Course Offerings

## IB Thai A: Language and Literature I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Thai 10

### **Description:**

The language A: language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption.

The course is organized into three areas of exploration and seven central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language A in question through its cultural development and use, its media forms and functions, and its literature.

## IB Thai A: Language and Literature II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Thai A: Language and Literature I

### **Description:**

The language A: language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption.

The course is organized into three areas of exploration and seven central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language A in question through its cultural development and use, its media forms and functions, and its literature.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.



# Chinese Language Department

The Chinese Language department at TCIS offers a diverse and comprehensive range of courses aimed at developing students' proficiency in Mandarin Chinese and fostering an appreciation for Chinese language and culture. Our curriculum spans a continuum of courses, accommodating varying levels of language proficiency and catering to both native and non-native speakers.

TCIS offers Mother Tongue courses for native speakers, focusing on advanced language, literature, and culture. The Foreign Tongue series caters to non-native speakers, guiding them from basics to advanced proficiency. Beginning and Traveling Chinese courses provide immersive experiences in practical language and travel scenarios. These courses enhance real-world communication skills and cultural adaptability.

Additionally, our AP Chinese courses meet rigorous academic standards, fostering college-level language proficiency, and advanced literature understanding, elevating language skills and cultural appreciation.

Overall, our Chinese Language department at TCIS is committed to equipping students with linguistic proficiency, cultural competency, and effective communication skills in Mandarin Chinese.

Grade 9	Grade 10	Grade 11	Grade 12
AP Chinese Mother Tongue	AP Chinese Mother Tongue	AP Chinese Mother Tongue	AP Chinese Mother Tongue
G9 Chinese Mother Tongue	G10 Chinese Mother Tongue	G11 Chinese Literature	G12 Chinese Literature
G9 Chinese Foreign Tongue	G10 Chinese Literature	AP Chinese Foreign Tongue	AP Chinese Foreign Tongue
Traveling Chinese 1	AP Chinese Foreign Tongue	Chinese Modern Literature I	Chinese Modern Literature II
HS Beginner Chinese	G10 Chinese Foreign Tongue	Practical Chinese Communication and Writing	Practical Chinese Communication and Writing
	Traveling Chinese 1	Traveling Chinese 1	Traveling Chinese 1
	Traveling Chinese 2	Traveling Chinese 2	Traveling Chinese 2
	HS Beginner Chinese	HS Beginner Chinese	HS Beginner Chinese
		IB Chinese A: Language and Literature I	IB Chinese A: Language and Literature II
		IB Chinese B I	IB Chinese B II

# Chinese Language Department

# Course Offerings

## Gr. 9 Chinese Mother Tongue<sup>+</sup>

**Grade:** 9

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course is designed for native speakers of Mandarin who wish to maintain and further develop proficiency especially in understanding the Chinese ancient classics.

Instruction focuses on reading and stating the philosophy of Chinese classics and writing skills.

Text: Nan Yi Chinese vol. 5 & 6;  
Supplemental readings and materials

## Gr. 10 Chinese Mother Tongue<sup>+</sup>

**Grade:** 10

**Credit:** 1

**Prerequisites:** CMT9 (or teacher recommendation)

### **Description:**

This course continues to develop the native language skills from Chinese Grade 9. It emphasizes writing more difficult characters and study of homonyms, homographs, and frequently confused words found in everyday life. Students learn more about topics of Chinese culture while focusing on reading and stating the philosophy of Chinese classics and writing skills.

Text: Long Teng Chinese vol. 1 & 2;  
Supplemental readings and materials

# Chinese Language Department

# Course Offerings

## Gr. 10 Chinese Literature<sup>+</sup>

**Grade:** 10

**Credit:** 1

**Prerequisites:** CMT9 (or teacher recommendation)

### **Description:**

This course continues to develop the native language skills from Chinese Grade 9. It emphasizes writing more difficult characters and study of homonyms, homographs, and frequently confused words found in everyday life. Students learn more about topics of Chinese culture while focusing on reading and stating the philosophy of Chinese classics and writing skills.

**Text:** Long Teng Chinese vol. 1 & 2;  
Supplemental readings and materials

## Gr. 11 Chinese Literature<sup>+</sup>

**Grade:** 11

**Credit:** 1

**Prerequisites:** CMT10 (or teacher recommendation)

### **Description:**

This course continues to develop the native language skills from Chinese Grade 9 and 10. Instruction stresses Chinese composition. Students learn to write complete sentences and simple compositions using homonyms, homographs, frequently confused words, idioms, and proverbs. Varied topics of Chinese culture are a focus of student learning.

**Textbook:** Long Teng Chinese vol. 3(新版) & 4(舊版); Supplemental readings and materials

# Chinese Language Department

## Course Offerings

### Gr. 12 Chinese Literature+

Grade: 12

Credit: 1

Prerequisites: CMT11 (or teacher recommendation)

#### Description:

By the end of this course, students are supposed to achieve the advanced level of Chinese proficiency, which matches the level of native speakers, and which can help them to comprehend and create the literal contents we expect. This course continues to develop the native language skills from Chinese Grade 9 to 11. Instruction stresses Chinese composition. Students learn to write complete sentences and simple compositions using homonyms, homographs, frequently confused words, idioms, and proverbs. Varied topics of Chinese culture are a focus of student learning.

Textbook: Long Teng Chinese vol. 5 & 6;  
Supplemental readings and materials

### Practical Chinese Communication and Writing+

Grade: 11-12

Credit: 1

Prerequisites: None

#### Description:

This course is designed for near-native Chinese learners to explore authentic, real-world texts and develop advanced writing and communication skills. Over four units, students engage with personal, cultural, public, and academic contexts through various genres, including autobiographies, magazine articles, opinion pieces, news reports, research papers, and speeches. Emphasis is placed on project-based learning and task-based activities, allowing students to produce meaningful outcomes, including a university application essay, contributions to a school language and culture magazine, a student research paper, a news article, and a recorded speech. The course culminates in the creation of a personal digital portfolio, showcasing students' growth as reflective communicators and preparing them for university applications and global engagement.

# Chinese Language Department

## Course Offerings

### Gr. 9 Chinese Foreign Tongue<sup>+</sup>

Grade: 9

Credit: 1

Prerequisites: None

#### Description:

The course will be structured by the parts of lecture, discussion, culture special course, and project instruction. Students are required to attend each class and are expected to submit all the homework and projects with quality prior to the due. With regard to assessment, the teacher will organize and hold quizzes (formative evaluation) or quarter exam (summative evaluation) to access their learning behaviors and the ability, both of content and language, which they are supposed to acquire in class. Our goal is to provide twelve lessons to facilitate the students to improve their communicative skills in listening, speaking, reading and writing in modern Chinese in daily life. By the end of this school year, students are supposed to achieve the intermediate level of Chinese proficiency, which matches the level of native speaker, and which can help them to comprehend and produce language that we expect.

### Gr. 10 Chinese Foreign Tongue<sup>+</sup>

Grade: 10

Credit: 1

Prerequisites: CFT 9 (or teacher recommendation)

#### Description:

The course will be structured by the parts of lecture, discussion, culture special course, and project instruction. Students are required to attend each class and are expected to submit all the homework and projects with quality prior to the due. With regard to assessment, the teacher will organize and hold quizzes (formative evaluation) or quarter exam (summative evaluation) to access their learning behaviors and the ability, both of content and language, which they are supposed to acquire in class. Our goal is to provide seven units to facilitate the students to improve their communicative skills in listening, speaking, reading and writing in modern Chinese in daily life. By the end of this school year, students are supposed to achieve the intermediate/ advanced level of Chinese proficiency, which matches the level of native speaker, and which can help them to comprehend and produce language that we expect.

# Chinese Language Department

# Course Offerings

## Chinese Modern Literature I<sup>+</sup>

**Grade:** 11 ONLY

**Credit:** 1

**Prerequisites:** CFT10 (or teacher recommendation)

### **Description:**

This course is designed for non-native speakers of Mandarin who wish to maintain and further develop proficiency developed in Chinese II or earlier. Instruction focuses on reading and understanding the philosophy of Chinese writing skills.

- Reading of text materials that accompany the development of speaking skills and context knowledge
- Continued exposure to authentic written materials (e.g. signs, advertisements, web pages).
- Expanding mastery of characters written from memory to reinforce development of reading and speaking skills.
- Writing in response to reading, meet simple practical and expressive needs (e.g. writing notes and messages, postcards, posters, and taking notes from conversations).
- Expanding knowledge of the cultural environment, beliefs, and perspectives through language.

## Chinese Modern Literature II<sup>+</sup>

**Grade:** 12 ONLY

**Credit:** 1

**Prerequisites:** Chinese Modern Literature I (or teacher recommendation)

### **Description:**

This course is designed for non-native speakers of Mandarin who wish to maintain and further develop proficiency developed in Chinese. Instruction focuses on reading and understanding the philosophy of Chinese writing skills.

- Reading of text material that accompanies the development of speaking skills and context knowledge.
- Continued exposure to authentic written materials.
- Expanding mastery of characters written from memory to reinforce development of reading and speaking skills.
- Writing in response to reading, meet simple practical and expressive needs.
- Expanding knowledge of the cultural environment, beliefs, and perspectives through language.

# Chinese Language Department

## Course Offerings

### AP Chinese Mother Tongue<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

AP Chinese Language and Culture is equivalent to an intermediate-level college course in Chinese. Students cultivate their understanding of Chinese language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.

This course is designed for native speakers of Mandarin who wish to maintain and further develop proficiency especially in understanding the Chinese ancient classics. Instruction focuses on reading and stating the philosophy of Chinese classics and writing skills. These students are required to sit for the AP exam.

### AP Chinese Foreign Tongue<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** None

**Description:**

AP Chinese Language and Culture is equivalent to an intermediate-level college course in Chinese. Students cultivate their understanding of Chinese language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.

This course is designed for non-native speakers of Mandarin who wish to study for and sit the AP exam. Students will practice interpersonal, interpretive, and presentation language using the Far East Everyday Chinese textbook as well as exam preparation materials provided by the College Board and AP Classroom website.

# Chinese Language Department

# Course Offerings

## Traveling Chinese 1+

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course is for TCIS students who have studied Mandarin for 1–2 years and want to continue improving their speaking, reading, and writing skills. Through lectures, discussions, tourism-related topics, and project-based learning, students build practical language abilities. The curriculum emphasizes useful travel vocabulary and phrases for real-life situations such as accommodation, dining, shopping, transportation, and basic crisis management.

## Traveling Chinese 2+

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Traveling Chinese 1

### **Description:**

This course is for TCIS students who have studied Mandarin for 2–3 years in high school and wish to further develop their speaking, reading, and writing skills. Instruction includes lectures, discussions, tourism-based topics, and project work. Using practical, travel-focused textbooks, the course emphasizes useful words and phrases for real-world situations such as accommodation, dining, shopping, transportation, and basic crisis management.

## HS Beginner Chinese+

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course is designed for students new to TCIS and the study of Mandarin. The goal is to enhance students' ability to speak, read, and write in Chinese. The course will be structured by the parts of lecture, discussion, culture special course, and project instruction. And will focus on textbooks, focusing on the practicality of life, and learning more about Chinese culture through festivals and cultural units. Students are required to attend each class and are expected to submit all the homework and projects with quality prior to the due date.

# Chinese Department

# Course Offerings

## IB Chinese A: Language and Literature I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Chinese Literature 10;  
AP Chinese (recommended)

### **Description:**

The language A: language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption.

The course is organized into three areas of exploration and seven central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language A in question through its cultural development and use, its media forms and functions, and its literature.

## IB Chinese A: Language and Literature II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Chinese A: Language and Literature I

### **Description:**

The language A: language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption.

The course is organized into three areas of exploration and seven central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language A in question through its cultural development and use, its media forms and functions, and its literature.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.

# Thai Department Course Offerings

## IB Chinese B I+

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** CFT 10 (or teacher recommendation)

### **Description:**

The language B courses are language acquisition courses for students with some previous experience of the target language. Students develop the ability to communicate in the target language through the study of language, themes and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive and interactive skills across a range of contexts and purposes that are appropriate to the level of the course (and beyond those for language ab initio).

The language B syllabus is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet.

## IB Chinese B II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Chinese B I

### **Description:**

The language B courses are language acquisition courses for students with some previous experience of the target language. Students develop the ability to communicate in the target language through the study of language, themes and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive and interactive skills across a range of contexts and purposes that are appropriate to the level of the course (and beyond those for language ab initio).

The language B syllabus is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.





# World Languages Department

The World Language department at TCIS offers a series of courses dedicated to fostering additional language proficiency, cultural appreciation, and effective communication. Our curriculum introduces students to diverse world languages guiding them through structured levels of proficiency and understanding.

Through our language courses, students embark on a journey to develop their language skills, encompassing speaking, listening, reading, and writing. We prioritize nurturing effective communication and cultural competence, preparing students for global engagement and appreciation of diverse cultures.

The courses in Korean, French, and Spanish are designed to introduce students to fundamental language elements, gradually progressing to more advanced levels of proficiency. Our curriculum emphasizes practical language usage, cultural understanding, and real-world application to enhance students' language skills and intercultural competence.

Our department aims to empower students to become proficient and culturally aware communicators in diverse linguistic contexts, laying the groundwork for lifelong language learning and global citizenship.

<b>Grade 9 - 12</b>			
Korean I		Korean II	
Spanish I		Spanish II	
French I		French II	

# World Languages Department

## Course Offerings

### Korean I+

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

This high school course is an introduction to Korean for beginners. It focuses on developing four fundamental language skills: listening, speaking, reading, and writing. Students engage in conversations covering various topics such as making friends, shopping, setting appointments, social outings, travel, daily routines, family life, and celebrations. Throughout the course, they will master all characters and learn to decipher simple Korean texts like letters, emails, flyers, signs, and children's stories. Practical writing tasks like diary entries, postcards, and short essays will also be part of the curriculum. Furthermore, students will explore diverse aspects of Korean culture, encouraging comparisons with their own cultural backgrounds.

### Korean II

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** Korean I (or teacher recommendation)

**Description:**

This course caters to students who have previously completed Korean I. It covers conversational topics such as vacations, illness, part-time jobs, holidays, trips, and lost and found scenarios. The curriculum entails mastering the comprehension of straightforward news articles, descriptions, and stories in Korean. Students will refine their writing skills by crafting letters and essays. Moreover, the course introduces students to diverse facets of Korean culture, fostering opportunities for comparison with their own cultural backgrounds.

# World Languages Department

## Course Offerings

### Spanish I<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

This is an introductory Spanish course that begins students' journey into the Spanish-speaking world. We will study the basic vocabulary and structures of Spanish that students will need to talk about themselves, their families and friends, their school, likes and dislikes. They also learn to carry out simple conversations with their friends and are guided to use Spanish as it is used in common real-life contexts. They are exposed to the Hispanic cultures through activities using visual and audio tools, including various online resources. For each unit of study, the course will assess students' reading, writing, speaking, and listening skills- which can be demonstrated through performance assessments as well as written tests.

### Spanish II<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** Spanish I (or teacher recommendation)

**Description:**

This is an intermediate Spanish course that continues students' journey into the Spanish-speaking world. We will work to solidify the basics, but also move on to build on the foundation of basic vocabulary and structures of Spanish that students acquired in Spanish 1. In Spanish 2, we take that foundation of basic Spanish proficiency, and continue to build vocabulary and grammatical awareness as we explore Spanish-speaking cultures through activities using visual and audio tools, including various online resources. As in Spanish 1, for each unit of study the course will assess students' reading, writing, speaking, and listening skills, which can be demonstrated through performance assessments as well as written tests.

# World Languages Department

## Course Offerings

### French I

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

This is an introductory French course that begins students' journey into the French-speaking world. We will study the basic vocabulary and structures of French that students will need to talk about themselves, their families and friends, their school, likes and dislikes. They also learn to carry out simple conversations with their friends and are guided to use French as it is used in common real-life contexts. They are exposed to the Francophone cultures through activities using visual and audio tools, including various online resources. For each unit of study, the course will assess students' reading, writing, speaking, and listening skills- which can be demonstrated through performance assessments as well as written tests.

### French II

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** French I (or teacher recommendation)

**Description:**

This is an intermediate French course that continues students' journey into the French-speaking world. We will work to solidify the basics, but also move on to build on the foundation of basic vocabulary and structures of French that students acquired in French 1. In French 2, we take that foundation of basic French proficiency, and continue to build vocabulary and grammatical awareness as we explore French-speaking cultures through activities using visual and audio tools, including various online resources. As in French 1, for each unit of study the course will assess students' reading, writing, speaking, and listening skills, which can be demonstrated through performance assessments as well as written tests.





# Performing Arts Department

The Performing Arts department at TCIS offers a diverse array of courses aimed at nurturing students' artistic expression, creativity, and communication through music, drama, and film. Our curriculum is designed to cultivate students' skills in performance, technical proficiency, and artistic exploration.

Through courses like Wind Ensemble, Pop Ensemble, Strings Ensemble, Chorus, and Drama, students are encouraged to explore their artistic talents and develop proficiency in various performing arts disciplines. These courses provide opportunities for students to hone their musical abilities, theatrical skills, and vocal talents, fostering a sense of collaboration, creativity, and self-expression.

In addition, courses such as Digital Music Production and Film Lab offer avenues for students to engage with technology and multimedia platforms, allowing them to explore the creative process behind music composition and film production. These courses emphasize technical skills, artistic vision, and hands-on experience in creating and producing music and film content.

The Performing Arts department at TCIS aims to foster a creative and inclusive environment where students can explore their artistic passions, develop their talents, and cultivate skills that extend beyond the stage. Through engaging coursework and experiential learning, we aim to empower students to express themselves confidently, collaborate effectively, and appreciate the artistry and cultural significance of performing arts.

Grade 9-12			
Wind Ensemble	Pop Ensemble	Strings Ensemble	Chorus
Chamber Music Ensemble		Digital Music Production	
Foundations of Music Theory		AP Music Theory	
Drama	Film Lab	Advanced Film	Digital Content Production
	IB Film I	IB Film II	

# Performing Arts Department

# Course Offerings

## Wind Ensemble

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

Wind Ensemble is a performance-oriented course in which student musicians rehearse and perform classical and other genres of music from many eras and cultures. Wind Ensemble includes the instruments flute, clarinet, saxophone, trumpet, French horn, trombone, euphonium, tuba and percussion. Content of this course is drawn from the National Core Arts Standards, which focuses on playing an instrument with technical accuracy and musical artistry. Music theory, history, aural skills and sight reading support the musician's quest for more beautiful and exciting performances.

## Pop Ensemble<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

Pop Ensemble is a performance-oriented course in which student musicians learn, rehearse and perform popular music of many styles and genres using acoustic and electric guitars, piano, synthesizer, drums, and other instruments. Content of this course is drawn from the National Core Arts Standards, and focuses on playing an instrument with technical accuracy and musical artistry. Music theory, music history, aural skills and sight reading support every musician's quest for more groovy and exciting performances.

# Performing Arts Department

# Course Offerings

## Strings Ensemble+

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

The String Ensemble course is tailored for high school students seeking to advance their proficiency as classical musicians. Participants will engage with instruments like the violin, viola, cello, or double bass. The course aligns with the National Core Arts Standards (NCAS), emphasizing the artistry of playing instruments both individually and collaboratively across a diverse music repertoire. Regular sessions will delve into music theory, aural skills, sight-reading, tuning, and performance techniques, encouraging active participation and involvement from all students.

## Chamber Music Ensemble+

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** 1 year any HS ensemble course (or teacher recommendation)

### **Description:**

The Chamber Music Ensemble course is tailored for accomplished musicians seeking collaborative experiences within small ensemble settings. It provides a platform for musicians to synergize their skills, exploring an extensive repertoire that spans the classical to jazz spectrum. Each ensemble's repertoire is carefully curated to complement and showcase the diverse instrumentation present, fostering a rich and dynamic musical dialogue among participants.

# Performing Arts Department

## Course Offerings

### Foundations of Music Theory<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

**Description:**

Foundations of Music Theory is a fundamental course designed to introduce students to the principles of music theory. Throughout the course, students will explore essential concepts and terminology related to musicianship, theory, and musical materials and procedures.

The curriculum covers topics such as notation, rhythm, melody, harmony, and form, providing students with a solid understanding of the basic elements of tonal music. Students will engage in a variety of activities, including listening exercises, sight-singing practice, and analysis of musical scores, to enhance their understanding of musical structures and techniques. Performance is also integrated into the curriculum, allowing students to apply theoretical concepts through practical application.

### AP Music Theory<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** 2 years of HS music (or teacher recommendation)

**Description:**

The AP Music Theory course corresponds to one-to-two semesters of typical, introductory college music theory coursework that covers topics such as musicianship, theory, and musical materials and procedures. Musicianship skills, including dictation and listening skills, sight-singing, and harmony, are an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural (listening) skills is a primary objective. Performance is also part of the curriculum through the practice of sight-singing. Students learn basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are emphasized.

# Performing Arts Department

# Course Offerings

## Digital Music Production<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

Digital Music Production is a creative course in which student musicians actively make 21st-Century musical styles using synthesizers, triggers, samplers, DAWs, sequencers, drum machines, as well as acoustic instruments. Content of this course is drawn from the National Core Arts Standards, and focuses on creating original music of high artistic merit. Typical daily student work activity will involve using your own laptop computer to manipulate sound waves, create melodies and beats, and build complete projects.

## Chorus<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course is designed for students who love singing with and without preparation. The polyphony “a cappella” will be introduced to build the stability of the individual groups and to find the sound balance between the groups. All of the singers will need to focus on the technical aspects of singing. We will approach the methods of the Alexander technique and Feldenkrais therapy for relaxing the body and the vocal cords. Students will learn to sing with their natural voice without constrictions.

# Performing Arts Department

## Course Offerings

### Drama<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

Drama is a class that will allow students to have fun as they develop skills, knowledge, and techniques of theatrical performance that will be applicable and transferable to many aspects of their lives, in and out of school. Students will learn to use their voice and body with increasing control and awareness. Effective collaboration with peers and interpersonal communication will be paramount as we go about our preparation and performance of skits, plays, and other related activities.

### Film Lab<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

The Film Lab class will be an opportunity to both create film and learn from analyzing film. The use of media to tell stories has become so common in our society. We will learn techniques to tell our own stories using digital camera equipment, learn from examples in current media forms as well as a historical look at film. Students will be able to create their own digital stories using industry film techniques by the end of the course.

# Performing Arts Department

## Course Offerings

### Advanced Film<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Film Lab

#### **Description:**

Advanced Film is designed to deepen students' understanding of cinematic storytelling, technical filmmaking, and collaborative production. Students will explore more advanced concepts in screenwriting, film theory, and visual composition. Emphasis will be placed on story structure, character development, camera movement, editing for tone and pace, and directing performance. Through hands-on projects and critical analysis, students will develop their unique voices as filmmakers while gaining experience in various crew roles and creative decision-making.

Over the course of the year, students will complete three major projects: a short documentary film, an original narrative film script, and a final group-produced short film of approximately 12 to 15 minutes. This final project will serve as the culminating assessment for the course and will involve a full pre-production, production, and post-production process.

### Digital Content Production<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

Digital Content Creation is designed to equip students with the technical skills needed to produce short- and medium-form digital content across various genres. Students will explore the fundamentals of digital media creation, including video, audio, graphics, and more. Drawing from industry-standard software and tools, such as Adobe Creative Suite and other digital content creation platforms, students will learn to edit videos, record and mix audio, design graphics, and create animations.

Throughout the course, students will work on individual and collaborative projects, allowing them to explore different aspects of digital content creation and develop their unique style. By the end of the course, students will have a comprehensive portfolio showcasing their skills and creativity in digital media production, preparing them for future opportunities in fields such as media, entertainment, marketing, and more.

# Performing Arts Department

# Course Offerings

## IB Film I

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Film Lab (or teacher recommendation)

### **Description:**

The Diploma Programme (DP) film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others. DP film students experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium.

## IB Film II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Film I

### **Description:**

The Diploma Programme (DP) film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others. DP film students experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.



# Visual Arts Department

The Visual Arts department at TCIS offers a dynamic spectrum of courses aimed at fostering artistic expression, creative exploration, and technical proficiency across various mediums. Our curriculum is thoughtfully crafted to cultivate students' artistic skills, creativity, and appreciation for visual arts throughout their educational journey.

Our department emphasizes hands-on experiences, creative expression, and critical thinking in the artistic process. Students engage in practical activities, projects, and critiques, allowing them to explore their creativity, develop their artistic voice, and gain a deeper understanding of visual communication.

Courses provide students with diverse avenues to explore different artistic techniques, mediums, and styles. Through these courses, students are encouraged to experiment, develop their artistic vision, and refine their technical abilities in various forms of visual art. Furthermore, courses provide students with opportunities to engage with contemporary digital mediums, expanding their understanding of technology's role in art and fostering innovative approaches to artistic creation.

The Visual Arts department at TCIS aims to create an inclusive and supportive environment where students can explore their artistic talents, cultivate their creativity, and develop a deeper appreciation for visual expression. Through a blend of theoretical knowledge and practical application, we aim to empower students to express themselves artistically, think critically, and appreciate the cultural significance of visual arts.

Grade 9	Grade 10	Grade 11	Grade 12
Art I	Art I	Art I	Art I
Intro To Painting	Intro To Painting	Intro To Painting	Intro To Painting
Digital Arts	Digital Arts	Digital Arts	Digital Arts
	Advanced Art	Advanced Art	Advanced Art
		AP Art	AP Art
		IB Visual Arts I	IB Visual Arts II

# Visual Arts Department

# Course Offerings

## Art 1+

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

Art 1 is a foundation course that builds on skills so that students may continue to grow in their artistic pursuits. Students who did not take prior art classes are most welcome to join. Over the course of the year, students will explore and experiment with a wide variety of media in order to gain a deeper understanding of processes including printmaking, charcoal, pencil, Prismacolor, watercolor, oil pastel, and acrylic paint. Emphasis will be placed on the elements and principles of design, and how they may be applied to creation. The course is geared towards assisting our learners in becoming well-rounded individuals who can apply the language of art while finding their artistic voice through creativity.

## Intro to Painting+

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

Students taking this exciting class will learn the fundamentals of painting while exploring their creativity and color. Students will learn acrylic and watercolor techniques as well as how to create interesting textures, layers and strokes. Additionally, students will learn about art movements and the fundamentals of design while creating. Color theory will be addressed as well as the expressive qualities of hues. Students will learn how to talk about art and find their artistic voice. During the course students will be encouraged to use traditional and non-traditional materials and tools.

# Visual Arts Department

# Course Offerings

## Digital Art<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

The Digital Arts curriculum is designed to provide students with basic knowledge and skills necessary to use Adobe Photoshop, Adobe Illustrator and WACOM tablets. This is a basic course with an emphasis on communication through use of concepts, type, imagery and design. Students taking this class will further their understanding of advertising, digital media, as well as digital drawing and painting. The course includes development of character creation, design layout skills, product design, typography, prototype creation, photo manipulation and an introduction to logo design. Adobe Illustrator and Adobe Photoshop will be used for our core curriculum, however students will also physically render some of their designs. Students will also have access to WACOM tablets to render their designs. Developing original and innovative ideas is encouraged throughout the curriculum.

## Advanced Art<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Art I, Intro to Painting, or Digital Art

### **Description:**

Advanced Art is the perfect course for students who want to further enhance their artistic skills and creative expression. The class is structured to allow greater exploration of concepts while refining each individual's skills so that students find their artistic voice whilst establishing maturity in their art and creativity. Over the course students will explore materials including: conte, ink, watercolor, acrylic paint, charcoal, chalk pastel and colored charcoal. They will create via printmaking, painting and drawing. This class is a prerequisite for AP Art, but welcomes all students who wish to explore their creativity and enhance their skills.

# Visual Arts Department

# Course Offerings

## AP Art<sup>+</sup>

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Advanced Art (and teacher recommendation)

**Description:**

AP Art is an introductory college-level two-dimensional design course. Students refine and apply 2-D skills to ideas they develop throughout the course. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions.

# Performing Arts Department

# Course Offerings

## IB Visual Arts I

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Advanced Art (or teacher recommendation)

### **Description:**

Art-making as inquiry is at the centre of the new DP visual arts course, which remains a creative, practice-based course that can be adapted to different contexts and cohorts of students.

This course fosters creativity, communication, critical thinking and collaboration. Students learn that by making art, they are empowered to engage, transform and emerge as individuals and members of a community. The higher level (HL) course offers a solid preparation for students who wish to continue their studies or career in the visual arts, but the syllabus more broadly equips students with skills essential in a rapidly evolving world.

## IB Visual Arts II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Visual Arts I

### **Description:**

Art-making as inquiry is at the centre of the new DP visual arts course, which remains a creative, practice-based course that can be adapted to different contexts and cohorts of students.

This course fosters creativity, communication, critical thinking and collaboration. Students learn that by making art, they are empowered to engage, transform and emerge as individuals and members of a community. The higher level (HL) course offers a solid preparation for students who wish to continue their studies or career in the visual arts, but the syllabus more broadly equips students with skills essential in a rapidly evolving world.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.





# Physical Education Department

The Physical Education department at TCIS offers a selection of courses aimed at promoting physical fitness, healthy lifestyle habits, and personal development. Our curriculum is designed to encourage students to embrace physical activity, develop essential motor skills, and understand the importance of fitness in maintaining overall well-being.

Courses such as PE 1, PE 2, and Personal Fitness provide students with opportunities to engage in various physical activities, sports, and fitness programs. Through these courses, students explore different exercises, team sports, and individual fitness routines, fostering physical strength, endurance, and coordination. Our department emphasizes the importance of a balanced and active lifestyle. Students are encouraged to participate in activities that promote cardiovascular health, strength training, flexibility, and overall physical wellness.

Furthermore, the Personal Fitness course focuses on personalized fitness goals, allowing students to develop individualized exercise routines and understand the principles of exercise science. All physical education courses aim to instill lifelong habits of physical activity and health-conscious decision-making.

The Physical Education department at TCIS is committed to promoting a culture of physical fitness, personal growth, and well-being. Through a blend of practical activities and theoretical knowledge, we aim to empower students to lead healthy and active lives, fostering a deeper understanding of the importance of physical fitness and overall wellness.

<b>Grade 9 - 12</b>
<b>Physical Education</b>
<b>Personal Fitness</b>

# Physical Education Department

## Course Offerings

### Physical Education +

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

Physical Education 1 is a comprehensive course fostering physical literacy and holistic health practices. Students cultivate fundamental movement patterns for a healthy lifestyle while gaining confidence in sports skills through varied instructional methods. Emphasizing teamwork, students collaborate to achieve goals, fostering effective communication and problem-solving skills.

The Health curriculum broadens knowledge, empowering students with insights into healthful living across various domains. Engaging in diverse activities, students gain leadership experience, transcending the boundaries of sports. Effective communication skills are honed through teamwork and problem-solving, preparing students for collaborative endeavors. PE may be repeated for multiple credits.

### Personal Fitness +

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

Personal Fitness is an immersive course focusing on weight training principles and responsible training habits. Students learn the intricacies of major weight-training exercises, identifying key muscles involved and mastering biomechanical principles for safe execution. Emphasis is placed on safety, with students practicing proper spotting techniques and fostering responsible behavior during workouts.

Observation and analysis of lifting techniques, whether through peer observation or self-analysis via video, sharpen students' understanding of proper form and technique. Culminating the course, students create personalized fitness goals and design comprehensive strength-training and conditioning programs tailored to their individual needs. Overall, the course equips students with the knowledge, skills, and motivation necessary for safe, effective, and goal-oriented fitness practices.



# Career and Technical Education Department

The Career and Technical Education (CTE) department at TCIS offers a variety of specialized courses aimed at preparing students for future careers and technological advancements. Our curriculum is designed to provide practical skills, technical knowledge, and hands-on experiences in emerging fields.

Courses such as Robotics 1, Robotics 2, Computer Coding, and AP Computer Science A delve into technology-driven fields, offering students opportunities to explore programming languages, robotics, and computer science concepts. These courses emphasize problem-solving, logical thinking, and innovation in line with the evolving landscape of technology.

Senior Seminar is a life-skills course that integrates career exploration, project-based learning, and real-world applications. It enables students to apply their skills and knowledge gained from their high school experience as a whole, preparing them for higher education or entry into the workforce.

The CTE department at TCIS aims to equip students with practical skills, technological literacy, and career readiness essential for success in an ever-evolving workforce. Through these courses, students develop critical thinking, creativity, and adaptability, positioning them for future academic and professional endeavors in a rapidly changing technological world.

<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
Intro to Robotics	Intro to Robotics Advanced Robotics Computer Coding	Intro to Robotics Advanced Robotics Computer Coding AP Computer Science A IB Computer Science I IBDP Core I	Intro to Robotics 1 Advanced Robotics Computer Coding AP Computer Science A Senior Seminar IB Computer Science II IBDP Core II

# Career and Technical Education

## Department Course Offerings

### Intro to Robotics<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** 1 year of MS Robotics  
(or teacher recommendation)

#### **Description:**

The curriculum in the Robotics class provides a structured sequence of programming activities in real-world project-based contexts. The projects are designed to get students thinking about the patterns and structure of not just robotics, but also programming and problem-solving more generally. This curriculum includes videos, animations, and step-by-step lessons designed to help learners foster Computational Thinking using the VEX V5 hardware and VEXcode programming software.

### Advanced Robotics<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** Robotics 1

#### **Description:**

The Advanced Robotics curriculum focuses on building on concepts covered in Robotics 1 and moving on to mechanical foundations and programming activities to prepare students for VRC competitions. This curriculum includes lessons designed to help learners foster Computational Thinking using the VEX V5 hardware and VEXcode Pro C++ programming.

This course may be repeated for additional credits.

# Career and Technical Education

## Department Course Offerings

### Computer Coding<sup>+</sup>

**Grade:** 10-12

**Credit:** 1

**Prerequisites:** None

**Description:**

Computer Coding is a project based, student led course in which students will learn and apply the basics of computer programming. This course is open to any high school student showing interest in programming, whether they arrive with no previous knowledge of programming or they have a working knowledge of one or more programming languages. Students will begin by learning the basics of a computer's architecture, algorithms and object oriented languages with an initial focus on Python. Secondly our attention will shift to web development including HTML, CSS and Javascript with the opportunity to include SQL and Python (Flask). Later, student groups will pursue projects of their choice, which may include cell phone app programming, additional web design/programming, or another approved direction of their choice.

### AP Computer Science A+

**Grade:** 11-12

**Credit:** 1

**Prerequisites:** Algebra 2

**Description:**

AP Computer Science A introduces students to computer science through programming.

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.

# Career and Technical Education

## Department Course Offerings

### Interactive Design & Game Development<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

#### **Description:**

This high school class is designed to merge students' passion for gaming with academic insights, creating an engaging experience for those eager to understand and participate in the eSports phenomenon.

Throughout the course, students explore various key topics essential to the eSports industry. They examine the history and global impact of competitive gaming, analyze popular games and genres dominating the eSports scene, and dissect the intricate mechanics and strategies used by professional players. Additionally, students focus on developing crucial teamwork, communication, and collaboration skills vital for success in competitive gaming.

The course also addresses ethical considerations such as fair play, sportsmanship, and responsible gaming practices. Students learn about streaming and content creation within the gaming industry, as well as explore potential career paths in eSports.

### Senior Seminar<sup>+</sup>

**Grade:** 12 ONLY

**Credit:** 1

**Prerequisites:** None

#### **Description:**

This course is designed to provide a comprehensive foundation beneficial for students' future endeavors. The initial semester focuses on career-readiness while the second semester pivots towards developing the life skills necessary for real-world success. Students engage in a diverse range of activities aimed at honing skills vital for professional settings, enabling them to navigate the intricacies of career development effectively. Additionally, emphasis is placed on cultivating independent living skills, equipping students with the necessary tools and knowledge to confidently navigate various aspects of daily life beyond academia. Overall, this course offers a holistic approach, cultivating both career skills and independent living abilities, ensuring students are well-prepared for their future endeavors.

# Career and Technical Education

## Department Course Offerings

### IB Computer Science I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** Coding (or teacher recommendation)

#### **Description:**

The IB DP computer science course requires an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. The course, underpinned by conceptual thinking, draws on a wide spectrum of knowledge, and enables and empowers innovation, exploration and the acquisition of further knowledge. Students study how computer science interacts with and influences cultures, society and how individuals and societies behave, and the ethical issues involved. During the course the student will develop computational solutions.

### IB Computer Science II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB Computer Science I

#### **Description:**

The IB DP computer science course requires an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. The course, underpinned by conceptual thinking, draws on a wide spectrum of knowledge, and enables and empowers innovation, exploration and the acquisition of further knowledge. Students study how computer science interacts with and influences cultures, society and how individuals and societies behave, and the ethical issues involved. During the course the student will develop computational solutions.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case.

# Career and Technical Education

# Department Course Offerings

## IB DP Core I<sup>+</sup>

**Grade:** 11\*

**Credit:** 1

**Prerequisites:** enrollment as an IBDP Diploma Candidate

### **Description:**

The core is made up of three required components, which aim to broaden students' educational experience and challenge them to apply their knowledge and skills.

The three core components are:

*Theory of knowledge*, in which students reflect on the nature of knowledge and on how we know what we claim to know.

*The extended essay*, which is an independent, self-directed piece of research, culminating with a 4,000-word paper.

*Creativity, activity, service*, in which students undertake and engage in activities related to each of the three strands.

## IB DP Core II

**Grade:** 12\*

**Credit:** 1

**Prerequisites:** IB DP Core I

### **Description:**

The core is made up of three required components, which aim to broaden students' educational experience and challenge them to apply their knowledge and skills.

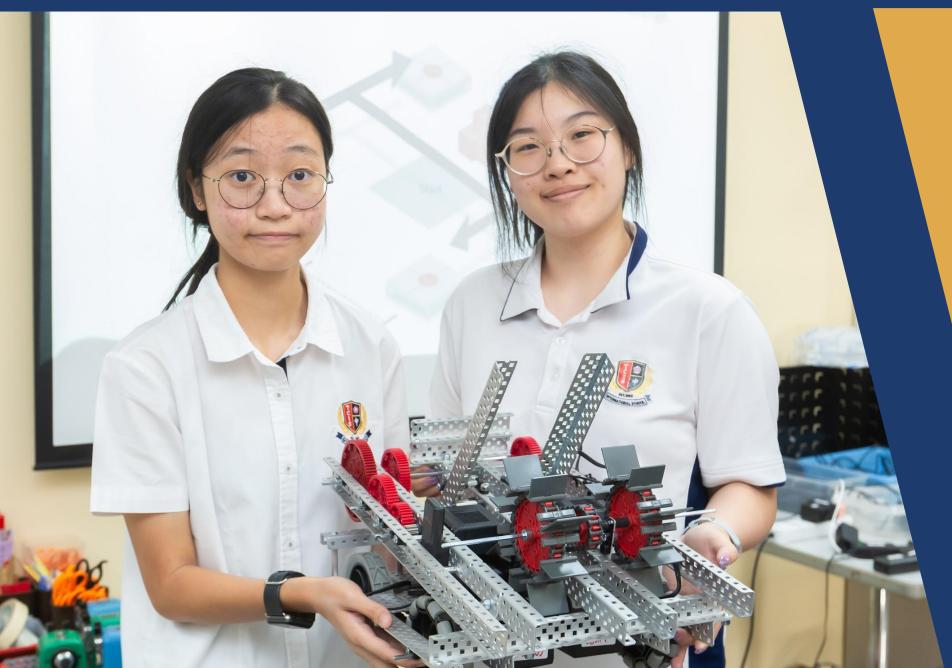
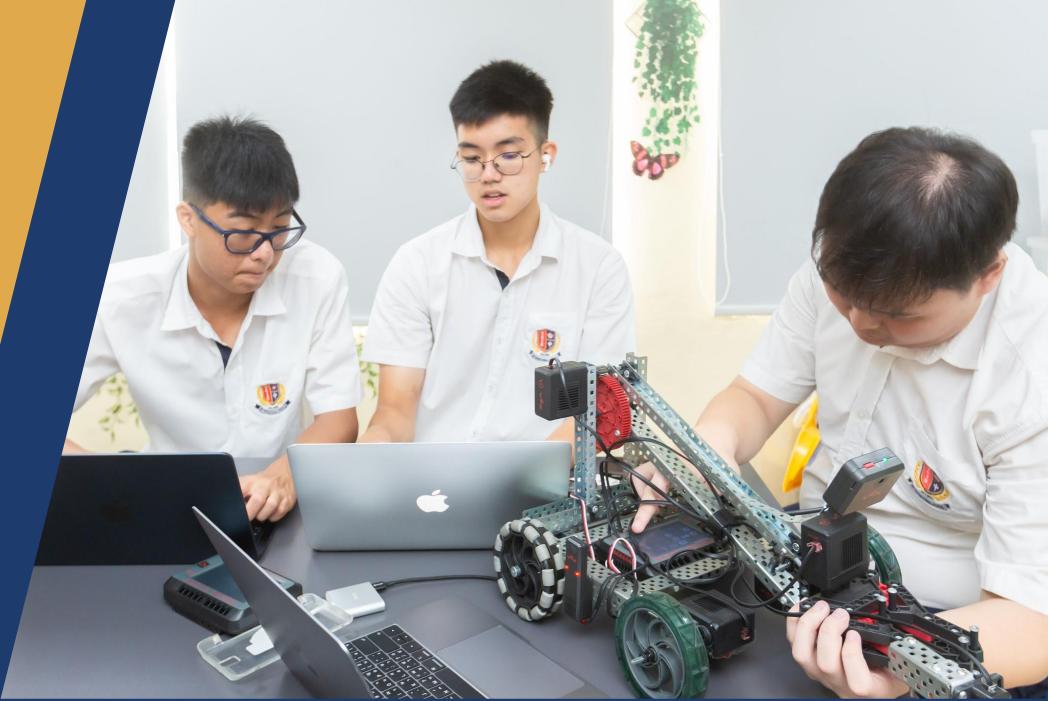
The three core components are:

*Theory of knowledge*, in which students reflect on the nature of knowledge and on how we know what we claim to know.

*The extended essay*, which is an independent, self-directed piece of research, culminating with a 4,000-word paper.

*Creativity, activity, service*, in which students undertake and engage in activities related to each of the three strands.

\*Please note that these courses must be taken in order, in the grade level listed. All students must successfully complete the Year I course in order to join the Year II course. Students may elect to discontinue their IB study at the end of YI. Students will receive TCIS credit, but no IB credit or value added GPA will be awarded in this case. IBDP Core is only available to Diploma Candidates.





# Student Support Services Department

The Student Support Services department at TCIS is dedicated to providing tailored educational support to meet the diverse needs of students. Our courses, including ELL 9-11, ELL Science, and Foundations of Mathematics, aim to support students in language acquisition, science-related vocabulary, and math proficiency.

Placement into these classes is determined through a holistic assessment, considering WIDA scores and teacher feedback. The ELL courses are designed to enhance language acquisition, while ELL Science focuses on science-related vocabulary acquisition, and Foundations of Mathematics supports students in developing essential math-related skills.

Our department operates on a student-centered approach, ensuring that students receive the necessary support and resources to thrive academically. Through differentiated instruction and targeted interventions, we aim to create an inclusive learning environment that fosters student growth, confidence, and success in their academic journey.

<b>Grade 9-12</b>			
ELL 9-11	ELL Science	Foundations of Mathematics	Foundations of Social Studies

# Student Support Services

# Department Course Offerings

## ELL 9-11<sup>+</sup>

**Grade:** 9-11

**Credit:** 2

**Prerequisites:** None

### **Description:**

ELL 9-11 is a specialized course designed for students in grades 9-11 operating at WIDA levels 1 or 2. Tailored to accelerate language acquisition, the course serves as a foundational stepping stone for students' English language development and future English studies.

Focused on rapid language acquisition, the curriculum employs immersive techniques, interactive activities, and targeted language exercises to bolster students' proficiency. Emphasis is placed on honing fundamental language skills encompassing reading, writing, listening, and speaking. Through engaging materials and structured lessons, students are guided towards fluency and comprehension, laying a robust foundation for future English language studies.

## ELL Science<sup>+</sup>

**Grade:** 9-11

**Credit:** 1

**Prerequisites:** None

### **Description:**

ELL Science is a specialized course catering to students in grades 9-11 enrolled in ELL 9-11 or receiving Guided Reading support. The course concentrates on bolstering science-related vocabulary acquisition, crucial for navigating and comprehending scientific concepts.

Designed to immerse students in science-specific language, the curriculum employs interactive strategies and targeted exercises to fortify their understanding of scientific terminology. Through engaging materials, students develop a solid foundation in science-related vocabulary, empowering them to confidently engage in discussions and comprehend scientific texts. By focusing on vocabulary acquisition and language proficiency pertinent to science, ELL Science equips students with the tools necessary for success in future science studies, ensuring they are well-prepared for their academic endeavors in the realm of science.

# Student Support Services

# Department Course Offerings

## Foundations of Mathematics<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

Foundations of Mathematics is tailored for students in grades 9-12 enrolled in ELL 9-11, receiving Guided Reading support, or seeking additional academic assistance in mathematics. The course focuses on fostering math-related vocabulary acquisition and establishing a solid framework for future math studies.

Through targeted instruction and interactive learning strategies, students delve into essential math concepts while honing their mathematical vocabulary. The curriculum aims to build a strong foundation, enabling students to confidently approach and comprehend mathematical problems. Foundations of Mathematics equips students with the necessary tools for successful engagement in future math courses, setting a solid footing for their academic growth in mathematics.

## Foundations of Social Studies<sup>+</sup>

**Grade:** 9-12

**Credit:** 1

**Prerequisites:** None

### **Description:**

This course is designed for students in grades 9-12 who are enrolled in ELL 9-11, receive Guided Reading support, or benefit from additional academic scaffolding in social studies. The course emphasizes building critical social studies vocabulary, strengthening comprehension skills, and laying a solid groundwork for future humanities courses.

By cultivating essential vocabulary, improving academic literacy, and offering personalized support, Foundations of Social Studies equips students with the tools necessary for meaningful engagement in future social studies classes, establishing a strong base for continued academic success in the humanities.



# Thai-Chinese International School



# CONTACT INFORMATION

Big numbers catch your audience's attention  
101/177 Moo 7 Soi Mooban Bangpleenives, Prasertsin Rd.  
Bangplee Yai, Samutprakarn Thailand 10540  
Email: [info@tcis.ac.th](mailto:info@tcis.ac.th)  
Phone: +66-2-751-1201