



# ICSN

## Secondary Course Catalog

*2023-2024*

# Visual Arts

*How can I create art that expresses who I am and tells a story?*

## Art 06

Grade: 6      Credit: 0.5      Length: *full year*

**Summary:** Students will develop craftsmanship using the elements of art, including line, color, texture, form, and space, as they express themselves through visual art. Students will explore art media that may include pencils, pencil crayons, water-colors, acrylic paints, chalk, oil pastels, block prints, mixed media, ceramic sculpture, and weaving. Projects will incorporate self-evaluation, and critical thinking skills.

### *Enrichment Courses*

## General Art

Grade: 7-8      Credit: 0.25      Length: *1 semester*

**Summary:** Students will learn to apply the elements of art, including line, color, texture, form, and space, as they express themselves through visual art. Students will explore art media that may include pencils, pencil crayons, water-colors, acrylic paints, chalk, oil pastels, block prints, mixed media, ceramic sculpture, soapstone, and weaving. Projects will incorporate self-evaluation, and critical thinking skills.

## Intermediate Art

Grade: 7-8      Credit: 0.25      Length: *1 semester*

**Summary:** Students will expand on their learning from general arts to apply the elements of art, including line, colour, texture, form, and space, as they express themselves through visual art. Students will explore art media that may include pencils, pencil crayons, water-colours, acrylic paints, chalk, oil pastels, block prints, mixed media, ceramic sculpture, soapstone, and weaving. Projects will incorporate self-evaluation, and critical thinking skills.

## Advanced Art

Grade: 9-12      Credit: 0.25      Length: *1 semester*

**Summary:** Students will focus on developing the elements of design in their art. Including balance, emphasis, movement, unity and pattern. Students will explore art media that may include pencils, pencil crayons, water-colors, acrylic paints, chalk, oil pastels, block prints, mixed media, ceramic sculpture, soapstone, and weaving. Students will use art to convey messages on personal and world issues.

## Studio Art

Grade: 9-12      Credit: 0.25      Length: *1 semester*

**Summary:** Studio Art is focused on portfolio building. Students will choose themes, mediums, and content for the building of their portfolio. Students will demonstrate the acquisition of skills and knowledge from previous art classes and use studio time to hone their skills and continue to develop craftsmanship.

# Business & Economics

## *Enrichment Courses*

### **Business I**

Grade: 9-12    Credit: 0.25    Length: 1 semester

**Summary:** Business I is an introduction into the business world. Students will be exposed to basic business vocabulary and will look into how economics works in the world today. They will cover basic levels of accounting, marketing, and investing while engaging in fun, competitive projects in class.

### **Digital Marketing**

Grade: 9-12    Credit: 0.25    Length: 1 semester

**Summary:** This course will cover the concepts and application of building online presence, creating an online business strategy, understanding customer behavior, applying search engine optimization (SEO), social media marketing, and content marketing. Students will learn concepts and apply them through simulation of real-world tasks. They will collaborate with small and medium enterprises in building their online presence and implementing digital marketing campaigns.

# Communication Arts

## *Enrichment Courses*

### **Introduction to Communication**

Grade: 07-12    Credit: 0.25    Length: 1 semester

**Summary:** Communication Arts serves as a foundational course in the department. Its content covers a broad range of general communication topics that prepare students for advanced communication courses. The course is largely project-based with students working to produce presentations, make arguments, perform dramatizations and more both collaboratively and individually.

### **Teacher's Aide**

Grade: 9-12    Credit: 0.25    Length: 1 semester

**Summary:** Teacher's Aide is a unique course that gives select students the opportunity to assist a supervising teacher in and out of the classroom. Students are assigned an experienced ICSN teacher who gives them tasks and responsibilities that could include secretarial duties, simple grading, data management, student-to-student interaction, and more. Students must receive approval in order to join TA.

### **Speech & Debate**

Grade: 07-12    Credit: 0.25    Length: 1 semester

**Summary:** Speech & Debate is an elective open to High School students. Students will study how to become critical consumers of argumentation. Students will learn about the foundations of argument, techniques for persuasion, and tools for evaluating the positions of others. Topics for exploration could cover philosophy, ethics, current events, films, and many more.

### **Introduction to Culinary Arts**

Grade: 07-12    Credit: 0.25    Length: 1 semester

**Summary:** Culinary Arts teaches cooking and baking skills in the kitchen. Students gain an understanding of basic kitchen skills and vocabulary such as; knife skills, ingredient purposes, terminology, equipment use, and more. Students use learned skills to complete cooking and baking challenges targeting their growth and understanding of food planning, preparation, and presentation.

# English

*How can we use language to positively impact our world?*

## English 06

Grade: 6      Credit: 1      Length: *full year*

**Summary:** Grade 6 English is a foundational course which will target students' growth in the areas of reading, writing, listening, speaking, discussion, and reflection. Through a variety of different texts, students will practice reading strategies and develop comprehension skills. Students will learn how to write for different audiences and purposes. Students will be able to apply the different reading and writing skills to their speaking skills as well, becoming more well-rounded communicators as they expand their knowledge of English.

## English 07

Grade: 7      Credit: 1      Length: *full year*

**Summary:** Grade 7 English is a lower-level English literature and composition course. Students will grow in their appreciation for and ability to understand and intelligently analyze various forms of literature. They will also learn the basics and practice composing narrative, informative and poetic works.

## English 08

Grade: 8      Credit: 1      Length: *full year*

**Summary:** Grade 8 English is a core class that focuses heavily on the fundamental skills required for writing academic essays. Students will practice outlines, creating strong arguments, and APA formatting. In addition to writing, students will explore various literary genres, including mystery, poetry, and dystopian literature.

## English 09

Grade: 9      Credit: 1      Length: *full year*

**Summary:** Grade 9 English is a core class that builds on the writing skills gained in grade 8. These skills will eventually culminate in the writing of a research paper. In addition, students will learn to evaluate the use of rhetorical strategies in speeches and propaganda, seek to understand their own worldview, and then use this knowledge to explore the horrors of the Holocaust.

## English 10

Grade: 10      Credit: 1      Length: *full year*

**Summary:** American Literature is a Literature and composition course focused around the writings of American authors. During the course students will come to understand American literature by studying the different genres and literary devices used throughout American writing. Additionally, students will develop skills for understanding and interpreting literature, for researching and writing about a variety of topics, and for analyzing information.

## English 11

Grade: 11      Credit: 1      Length: *full year*

**Summary:** World Literature is an 11th grade English course. In addition to research, students will travel with Odysseus in *The Odyssey*, explore the depths of human depravity in *Night* and *Lord of the*

Flies, laugh at enchanted lovers in *A Midsummer Night's Dream*, and reimagine culture and language in *Things Fall Apart*.

## English 12

Grade: 12      Credit: 1      Length: *full year*

**Summary:** British Literature is a high-level classic literature course that features examination, analysis, and response to a sampling of the most revered and historically significant literary works to come out of the British Isles. Through a journey that takes them from Beowulf to Shakespeare and Orwell, students will cultivate an understanding and appreciation for the culture, history, language, and literary techniques of the British literary giants. They will also conduct extensive research and hone their composition skills through multiple in-depth response assignments.

## AP English Literature & Composition

Grade: 11-12      Credit: 1      Length: *full year*

**Summary:** AP English Literature and Composition is an introductory college-level English course. Students will explore a thematic approach to literature, working to identify the WHY and HOW in select readings. In this rigorous course, students are expected to critically read challenging novels, plays, prose, short stories, and poetry. Students will demonstrate their understanding of these complex texts through a variety of writing assignments and projects.

# Foreign Language

## *Enrichment Courses*

Our foreign language classes are taught by ICSN staff who are native speakers of the language. We are proud to be able to offer such a wide array of courses that reflect our multicultural staff's backgrounds.

### **Chinese o6**

Grade: 6      Credit: 0.5      Length: *full year*

Summary:      Basic conversational Chinese course required for 6th graders.

### **Chinese I-II**

Grade: 7-12      Credit: 0.25 each      Length: 1 semester each

### **Japanese I-II**

Grade: 7-12      Credit: 0.25 each      Length: 1 semester each

### **Swedish**

Grade: 7-12      Credit: 0.25      Length: 1 semester

*In High School, non-Thai nationals are permitted to forgo the required Thai Language & Culture class in favor of the more basic conversational Thai language courses below.*

### **Thai I-IV**

Grade: 7-12      Credit: 1      Length: *full year*

# Health & Physical Education

*How does physical fitness contribute to overall health?*

## Health & Physical Education 06

Grade: 6      Credit: 0.5      Length: *full year*

Summary: This is a general physical education course that is designed to focus on maintaining ones' body through physical exercises that encourage psychomotor learning through movement exploration setting to promote health and an active lifestyle.

## Health & Physical Education 07

Grade: 7      Credit: 0.5      Length: *full year*

Summary: This is a general physical education course that is designed to focus on maintaining ones' body through physical exercises that encourage psychomotor learning through movement exploration setting to promote health and an active lifestyle.

## Health & Physical Education 08

Grade: 8      Credit: 0.5      Length: *full year*

Summary: This is a general physical education course that is designed to focus on maintaining ones' body through physical exercises that encourage psychomotor learning through movement exploration setting to promote health and an active lifestyle.

### *Enrichment Courses*

## Body Fitness

Grade: 7-12      Credit: 0.25      Length: *1 semester*

Summary: A comprehensive course in one or more exercise techniques: strength/resistance, cardio, plyometric, stretching, high-intensity interval training, and calisthenics; to maintain health and wellness.

## Yoga

Grade: 7-12      Credit: 0.25      Length: *1 semester*

Summary: In Yoga class, students learn how much exercise is needed in daily life and how to exercise to stay fit. The course covers yoga-specific breathing techniques, mental conditioning, flexibility, core muscles, and training methods to build the right amount of muscle mass.

## Health & Disease

Grade: 7-12      Credit: 0.25      Length: *1 semester*

Summary: Health and Disease is a course in which students define what it means to be a "healthy" human, by exploring what is necessary for the human body systems to maintain homeostasis, and what conditions, whether internal or external, can cause the system to break down. Students will also learn ways to prevent diseases and poor health conditions, ultimately applying their knowledge by designing a personalized exercise and meal plan to prevent disease and promote their healthiest lifestyle.



# Mathematics

*How does math make sense of the world and communicate its beautiful design?*

## Mathematics 06

Grade: 6      Credit: 1      Length: *full year*

**Summary:** Mathematics 06 is designed to prepare students for mathematics courses in the current ICSN math track curriculum. In this course, students look at different disciplines of math while learning how it allows them to represent relationships using symbols. It involves the study of Ratios and Proportional Relationships, The Number System, Expressions and Equations, Geometry, as well as Statistics and Probability.

## Mathematics 07

Grade: 7      Credit: 1      Length: *full year*

**Summary:** This course is designed to take what students have learned in Grade 6 and expand it. By introducing integers, students are equipped to begin thinking algebraically. The focus of this course is to develop algebraic thinking and problem solving. This class will spend time finding unknown values in a variety of contexts including but not limited to: Percentages, Ratios, Equations, Volume, Area and Angles.

## Mathematics 08

Grade: 8      Credit: 1      Length: *full year*

**Summary:** This course is designed to prepare students for Algebra 1 and high school mathematics. It is a culmination of Grades 6 and 7 and begins to show students what we can do with math. An emphasis is put on graphing lines and interpreting data. Students who successfully complete grade 8 math will be competent in the following areas: Rational Numbers and Exponents, Solving Equations, Functions, Transformations, Congruence of shapes, Volume and Surface Area, and Probability.

## Integrated Math I

Grade: 9      Credit: 1      Length: *full year*

**Summary:** Integrated Math I will give students an understanding of the foundations of Algebra and Geometry. Students will build on an understanding of variables, expressions and working with equations. They will learn to write and solve simple and complex linear equations, then apply this to angles, triangles, and polygons in Geometry. Students will learn to work with equations of lines and segments on the coordinate plane, as well as solve systems of equations using various methods. Extending their understanding of measures of central tendency, students will create visuals and tables in order to determine probabilities and make predictions. Using the concepts of congruence, students will recognize and construct transformations as well as prove triangles congruent.

## Integrated Math II

Grade: 10      Credit: 1      Length: *full year*

**Summary:** This course covers a review of linear functions and has a large emphasis on quadratic functions. Students will be expected to identify critical features of each and apply those concepts to different situations. There is also a focus on Geometry standards such as reasoning and proofs, circles, congruent and similar triangles, relationships in triangles and quadrilaterals.

## Integrated Math III

Grade: 11      Credit: 1      Length: *full year*

**Summary:** This course is designed to give students a deeper understanding of math in preparation for Calculus and higher math courses. This course is a continuation of Algebra I and Algebra II. Students who successfully complete this course will be competent in the following areas: Polynomial, Radical, Exponential, and Rational Functions, Exponential Functions, Pascal's Triangle, The Unit Circle, Trigonometry, Conic Sections, Vectors, Matrices, and Statistics & Probability. Upon completion of this course, students will be ready for Calculus.

## Consumer Math

Grade: 12      Credit: 1      Length: *full year*

**Summary:** This course is designed to help students improve math skills and use these math skills in relevant real-world situations. In particular, this course focuses on the math behind financial success. The first semester will focus on Personal Finance and the second semester will focus on Business Finance. In Personal Finance, students will learn the skills to earn money and how to effectively spend and save money. In Business Finance, students will learn to answer questions relating to how small businesses function.

## AP Calculus AB

Grade: 11-12      Credit: 1      Length: *full year*

**Summary:** Course Overview: AP Calculus AB is equivalent to a first-semester college calculus course. Topics include functions, limits and continuity, derivatives, and integrals. In addition, the course will focus on applying the skills and concepts of calculus to modeling and solving problems across multiple representations.

# Music

*How does music connect us to the world and enhance how we experience life?*

## Music 06

Grade: 6      Credit: 0.5      Length: *full year*

Summary: Music 06 is a general music class that introduces students to notation, expressive intent, form and structure, composition, and performance. Students cultivate their understanding through hands-on activities and projects that explore the science, development, and presentation of music.

## Enrichment Courses

## General Music

Grade: 7-8      Credit: 0.25      Length: *1 semester*

Summary: General Music is an interactive course offering students practical, hands-on ways to learn about, play, and appreciate music. Students cultivate their understanding through project based activities and assessments that explore phrases, notation, composition, expressive intent, and performance.

## Middle School Band

Grade: 7-8      Credit: 1      Length: *full year*

Summary: Middle School Band is an introductory course to instruments and ensemble. Students deepen their understanding of music through learning, practicing, and performing an instrument. Students explore the following topics: notation, dynamics, expressive intent, audience etiquette, and performance.

## Middle School Choir

Grade: 7-8      Credit: 0.5      Length: *1 semester*

Summary: Middle School Choir is an enrichment class for beginning to intermediate music students wanting to explore their singing voice. Students will learn proper breathing and singing technique, perform music of various languages and styles, and participate in musical performances. Participation in this class encourages teamwork as well as individual responsibility and practice.

## High School Band

Grade: 9-12      Credit: 1      Length: *full year*

Summary: High School Band is an intermediate course to instruments and ensemble. Students have an understanding of their instrument and study greater music ideas through practicing and performing an instrument. Students explore the following topics: phrases, intonation, theory and scales, expressive intent, audience etiquette, and performance.

## High School Choir

Grade: 9-12      Credit: 0.5      Length: *1 semester*

Summary: High School Choir is an enrichment class for beginning to intermediate music students wanting to explore their singing voice. Students will learn proper breathing and singing technique,

perform music of various languages and styles, and participate in musical performances. Participation in this class encourages teamwork as well as individual responsibility and practice.

## **Modern Band**

Grade: *9-12*    Credit: *0.5*    Length: *1 semester*

Summary: Modern Band is a hands on, interactive music course offering students space to creatively express and perform musically. Students will deepen their understanding of music through cooperating and coordinating as a band, performing existing pieces and originals, and exploring different genres, styles, and eras.

# Science

*How does the world work and how do we solve its problems?*

## Science 06

Grade: 6      Credit: 1      Length: *full year*

**Summary:** 6th grade science is a necessary prerequisite course to higher learning. Students learn science and engineering practices, concepts that cut across all scientific domains, and disciplinary core ideas. Science in 6th grade focuses on forces and interactions, Newton's Laws, geological processes, and ecosystem dynamics.

## Science 07

Grade: 7      Credit: 1      Length: *full year*

**Summary:** Grade 7 Science is a prerequisite course to higher learning. Students will learn about crosscutting concepts, science and engineering practices, and disciplinary core ideas. Major focuses include energy and energy transformations, mechanical and electromagnetic waves, weather phenomena and climate, and chemical changes.

## Science 08

Grade: 8      Credit: 1      Length: *full year*

**Summary:** 8th Grade General Science is a course that provides the foundational knowledge necessary for High School Chemistry, Biology, and Earth Sciences. Students will gain beginner-level laboratory skills and engage in inquiry-based learning as they explore the following topics: the solar system, basic chemistry, Mendelian genetics, energetics, cellular biology, and body systems.

## Science 09

Grade: 9      Credit: 1      Length: *full year*

**Summary:** 9th grade science is a general science course in which students continue to learn foundational chemistry concepts necessary for later high school courses, as well as encounter the discipline of earth science at a high school level for the first time. Topics covered during this survey of chemistry and earth science include the following: thermal energy, chemical reactions, rocks and minerals, plate tectonics, the geologic time scale, and environmental impacts.

## Biology

Grade: 10      Credit: 1      Length: *full year*

**Summary:** Biology is the study of living things and their interactions with biotic and abiotic components of their environment. Students will investigate the structures and processes within cells and organisms, the role of genetic material in all living things, the dynamic interactions of organisms with their environment, and the history and future of life as environmental conditions change.

## Chemistry

Grade: 11      Credit: 1      Length: *full year*

**Summary:** Chemistry is the study of matter and how it changes. The course will focus on developing an understanding of the nature of matter and the process of change as it interacts with different chemical and physical conditions. Students will investigate the structure and function of matter

to make predictions about its chemical and physical properties, characteristics and quantitative relationships in chemical reactions, and the relationship between matter and energy in chemical processes.

## **Environmental Science**

Grade: 12      Credit: 1      Length: *full year*

**Summary:** In Environmental Science, students will study how individuals and societies use the Earth's resources to satisfy our wants and needs. The course draws from multiple scientific disciplines (Earth science, Life science, Physical science, Social science) to explore not just the environment, but the unique relationship humans have with it. Students investigate the destructive nature of human progress to the environment and the designing and engineering of solutions to global environmental issues is the common theme throughout the course.

## **AP Biology**

Grade: 10      Credit: 1      Length: *full year*

**Summary:** AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

## **AP Chemistry**

Grade: 11      Credit: 1      Length: *full year*

**Summary:** The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

## **AP Physics 1**

Grade: 12      Credit: 0.5      Length: *1 semester*

**Summary:** AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

## **AP Physics 2**

Grade: 12      Credit: 0.5      Length: *1 semester*

**Summary:** AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics.

## ***Enrichment Courses***

### **Anatomy & Physiology**

Grade: 9-12    Credit: 0.25    Length: 1 semester

**Summary:** Anatomy and Physiology will be a survey of the human body systems and their structures, how they function individually and together to maintain homeostasis, and how diseased states affect those functions. Each body system will be studied at each level of organization, including tissues and organs, to develop an understanding of how each body system functions as a sum of these parts.

### **Forensic Science**

Grade: 9-12    Credit: 0.25    Length: 1 semester

**Summary:** Forensic Science is a lab-based class in which different scientific techniques are applied to solve different mysteries and problems that could happen in the real world. Through scientific observation and analysis of evidence in the context of a crime scene, students will select and apply techniques from a variety of science disciplines including, but not limited to, DNA Analysis, Toxicology, Entomology, and Anatomy and Physiology.

### **Zoology**

Grade: 9-12    Credit: 0.25    Length: 1 semester

**Summary:** Zoology is a survey of the nine phyla of the animal kingdom, with emphasis on morphology and interrelationships between those phyla. Disciplines covered in this course include, but are not limited to, animal anatomy/physiology, animal behavior, distribution, ecology and conservation.

# Social Studies

## Social Studies 06

Grade: 6      Credit: 1      Length: *full year*

**Summary:** Social studies at the Grade 6 level focuses on providing students a strong base of foundational knowledge for continued social studies coursework. Topics include history, geography, culture, government, and more.

### *Enrichment Courses*

## Pop Culture

Grade: 9-12      Credit: 0.25      Length: *1 semester*

**Summary:** In this course, students will define what pop culture is, why it is important, and how it plays a role in the values of a society. Students will critically analyze pop culture throughout different time periods and study how historical events have influenced what is considered to be pop culture. Students will consider multiple lenses and various mediums such as movies, fashion, music, and their influence on people's daily lives.

## Modern History I

Grade: 9-12      Credit: 0.25      Length: *1 semester*

**Summary:** Modern History I & II examine the physical, political, and cultural aspects of world history from the Renaissance to the Cold War. Students will gain an understanding of the past, its relationship to the present, and its effect on the future. They will use problem-solving and critical thinking skills to look at personal, cultural, and societal issues and apply history to their everyday lives.

## Modern History II

Grade: 9-12      Credit: 0.25      Length: *1 semester*

**Summary:** Modern History I & II examine the physical, political, and cultural aspects of world history from the Renaissance to the Cold War. Students will gain an understanding of the past, its relationship to the present, and its effect on the future. They will use problem-solving and critical thinking skills to look at personal, cultural, and societal issues and apply history to their everyday lives.

## Ancient History

Grade: 9-12      Credit: 0.25      Length: *1 semester*

**Summary:** The course in Ancient History is designed to develop students' interest in the ancient world and the methods used by archaeologists and historians to increase our knowledge of the past. Students will apply their critical thinking skills to a range of case studies as they engage with written and archaeological sources from across the ancient Mediterranean world.

## Ayutthaya History

Grade: 9-12      Credit: 0.25      Length: *1 semester*

**Summary:** This course, taught fully in Thai, examines the events and cultural significance of the Ayutthaya era of Thai history.



## **Sukhothai History**

Grade: 9-12    Credit: 0.25    Length: 1 semester

Summary:    This course, taught fully in Thai, examines the events and cultural significance of the Sukothai era of Thai history.

# Technology

*How do we thrive in a constantly evolving technological world?*

## Digital Literacy & Computer Science 06

Grade: 6      Credit: 0.5      Length: *full year*

Summary:

## Digital Literacy & Computer Science 07

Grade: 7      Credit: 0.5      Length: *full year*

Summary:

## Digital Literacy & Computer Science 08

Grade: 8      Credit: 0.5      Length: *full year*

Summary:

### *Enrichment Courses*

## Computer Programming I

Grade: 9-12      Credit: 0.25      Length: *1 semester*

Summary: This course is designed for learners who have no or minimal knowledge in computer programming. It introduces the students to the basic concepts and techniques of developing programs for problem solving. This covers introductory concepts in variables, expressions, conditional statements, functions and loops. In this course, students learn how to design, implement, test, debug, and document programs using Python in Google Colab.

## Computer Programming II

Grade: 9-12      Credit: 0.25      Length: *1 semester*

Summary: Programming II dives deeper into topics previously covered, combining and applying concepts to solve more complex problems. New topics introduced include version control (Git), dictionaries, utilizing indexes in ordinal data types (lists, arrays, strings, etc), input/output (IO), functions, parameters, returns, and an introduction to Object Oriented Programming (OOP). Labs and practice may be done in Google Collab, VSCode, or an IDE of your choice. All graded work (portfolio) is committed to a student GitHub repository.

## Software Engineering: Game Development

Grade: 9-12      Credit: 0.25      Length: *1 semester*

Summary: This course is a fun, hands-on introduction to making games with Unity. No coding experience is required. Unpacked, this course exercises the engineering process of Software Development and basic object-oriented design. Learners identify stakeholders, identify a problem, and compose a solution / product definition. Models, diagrams, and documentation are used to define functional requirements. Skills and knowledge exercised in this course can improve productivity and a capacity for creative problem solving elsewhere in life.

## **Filmmaking & Production I**

Grade: 7-12    Credit: 0.25    Length: 1 semester

**Summary:** This is a video course that enables students to explore video communications, incorporating both the technical and artistic aspects of video media. Topics covered in the course include the use of video equipment and techniques, and students typically create a video presentation. Advanced course topics may include creating various forms of film media including silent film; sport and music video; and self portrait video.

## **Graphic Design I**

Grade: 7-12    Credit: 0.25    Length: 1 semester

**Summary:** In Graphic Design, students will study the standard of graphics using Adobe platforms, Adobe Photoshop and Adobe Illustrator. In this course students will learn editing images, combining images, and operating opacity to create a new design. They will learn different file extensions and their uses as well as how to use the pen tool to draw from scratch. Students will create an art piece or design using vector files and AI files. By the end of the course, students will be able to use Adobe Photoshop to edit and manipulate images and create digital art in Adobe Illustrator.

## **Web Development I**

Grade: 7-12    Credit: 0.25    Length: 1 semester

**Summary:** Web Development is a course for developing websites. Through inquiry-based research and application, students learn about the following subjects as they develop their understanding of the internet and web design: Wordpress Configurations, Web Pages, Urls, Domain Names, Web Linking Procedures, Media Libraries, and Design, Information Transfer, and WYSIWYG Editor.

## **Internet of Things**

Grade: 7-12    Credit: 0.25    Length: 1 semester

**Summary:** The course will teach about automation of simple systems around the house and/or school like doors, lights and or water irrigation systems for the garden, and connecting it to internet that it may be remotely accessed, monitored and controlled via internet-connected device like, phones, tablets and/or pc. Then, the course will go to project-based learning where students will go into design thinking process solving problems by making use of its applications.

# Thai Language & Culture

All Thai citizens are required to attend Thai Language & Culture class 5 days a week. Our Thai classes help our students stay connected with their nation and culture while continuing to help them grow in their understanding of the Thai language.

## Thai Language & Culture 06

Grade: 6      Credit: 1      Length: *full year*

**Summary:**

- 1.การอ่าน ใช้กระบวนการอ่านสร้างความรู้ และความคิด เพื่อนำไปใช้ตัดสินใจ แก้ปัญหาในการดำเนินชีวิต
- 2.การเขียน ใช้กระบวนการเขียน เขียนสื่อสาร และเขียนเรื่องราวในรูปแบบต่างๆ
- 3.การฟัง การดู และการพูดสามารถเลือกฟัง และดูอย่างมีวิจารณญาณ และพูดแสดงความรู้ ความคิด และความรู้สึกในโอกาสต่างๆ
- 4.วรรณคดีและวรรณกรรมเข้าใจและแสดงความคิดเห็น วิเคราะห์วรรณคดี และวรรณกรรมไทยอย่างเห็นคุณค่า และนำมาประยุกต์ใช้ในชีวิตจริง

## Thai Language & Culture 07

Grade: 7      Credit: 1      Length: *full year*

**Summary:**

- 1.การอ่าน ใช้กระบวนการอ่านสร้างความรู้ และความคิด เพื่อนำไปใช้ตัดสินใจ แก้ปัญหาในการดำเนินชีวิต และมีนิสัยรักการอ่าน
- 2.การเขียน ใช้กระบวนการเขียน เขียนสื่อสาร เขียนเรียงความ ย่อความ และเขียนเรื่องราวในรูปแบบต่างๆ เขียนรายงานข้อมูลสารสนเทศ และรายงานการศึกษาค้นคว้าอย่างมี
- 3.การฟัง การดู และการพูด สามารถเลือกฟัง และดูอย่างมีวิจารณญาณ และพูดแสดงความรู้ ความคิด และความรู้สึกในโอกาสต่างๆ อย่างมี
- 4.หลักการใช้ภาษาไทย เข้าใจธรรมชาติของภาษา และหลักภาษาไทยการเปลี่ยนแปลงของภาษาและพลังของภาษา ภูมิปัญญาทางภาษา และรักษาภาษาไทยไว้เป็นสมบัติของชาติ
- 5.วรรณคดีและวรรณกรรม เข้าใจและแสดงความคิดเห็น วิเคราะห์วรรณคดี และวรรณกรรมไทยอย่างเห็นคุณค่า และนำมาประยุกต์ใช้ในชีวิตจริง

## Thai Language & Culture 08

Grade: 8      Credit: 1      Length: *full year*

**Summary:**

**ทักษะทางด้านภาษา (ฟัง พูด อ่าน เขียน )**

- 1.การอ่าน ใช้กระบวนการอ่านสร้างความรู้ และความคิด เพื่อนำไปใช้ตัดสินใจ แก้ปัญหาในการดำเนินชีวิต และมีนิสัยรักการอ่าน
- 2.การเขียน ใช้กระบวนการเขียน เขียนสื่อสาร เขียนเรียงความ ย่อความ และเขียนเรื่องราวในรูปแบบต่างๆ เขียนรายงานข้อมูลสารสนเทศ และรายงานการศึกษาค้นคว้าอย่างมีประสิทธิภาพ
- 3.การฟัง การดู และการพูดสามารถเลือกฟัง และดูอย่างมีวิจารณญาณ และพูดแสดงความรู้ ความคิด และความรู้สึกในโอกาสต่างๆ อย่างมี

**หลักการใช้ภาษาไทย**

เข้าใจธรรมชาติของภาษา และหลักภาษาไทยการเปลี่ยนแปลงของภาษาและพลังของภาษา ภูมิปัญญาทางภาษา และรักษาภาษาไทยไว้เป็นสมบัติของชาติ

เรียนเกี่ยวกับเรื่อง คำสมาส / ประโยค/ คำราชาศัพท์/คำที่มาจากภาษาต่างประเทศ/ การแต่งกลอนสุภาพ

**วรรณคดีและวรรณกรรม** เข้าใจและแสดงความคิดเห็น วิเคราะห์วรรณคดี และวรรณกรรมไทยอย่างเห็นคุณค่า และนำมาประยุกต์ใช้ในชีวิตจริง เรียนเกี่ยวกับเรื่อง โคลงพระราชพงศาวดาร/บทเสภา / หลักศิลาจารึก/รามเกียรติ์/กาพย์/โคลง/กลอน

## Thai Language & Culture 09

Grade: 9      Credit: 1      Length: *full year*

## Summary:

### ทักษะทางด้านภาษา (ฟัง พูด อ่าน เขียน )

- 1.การอ่าน ใช้กระบวนการอ่านสร้างความรู้ และความคิด เพื่อนำไปใช้ตัดสินใจ แก้ปัญหาในการดำเนินชีวิต และมีนิสัยรักการอ่าน
- 2.การเขียน ใช้กระบวนการเขียน เขียนสื่อสาร เขียนเรียงความ ย่อความ และเขียนเรื่องราวในรูปแบบต่างๆ เขียนรายงานข้อมูลสารสนเทศ และรายงานการศึกษาค้นคว้าอย่างมีประสิทธิภาพ
- 3.การฟัง การดู และการพูด สามารถเลือกฟัง และดูอย่างมีวิจารณญาณ และพูดแสดงความรู้ ความคิด และความรู้สึกในโอกาสต่างๆ อย่างมีวิจารณญาณ และสร้างสรรค์

**หลักการใช้ภาษาไทย** เข้าใจธรรมชาติของภาษา และหลักภาษาไทยการเปลี่ยนแปลงของภาษาและพลังของภาษา ภูมิปัญญาทางภาษา และรักษาภาษาไทยไว้เป็นสมบัติของชาติ

เรียนเกี่ยวกับเรื่อง คำสมาส / ประโยค/ คำราชาศัพท์/คำที่มาจากภาษาต่างประเทศ/

การแต่งกลอนสุภาพ

**วรรณคดีและวรรณกรรม** เข้าใจและแสดงความคิดเห็น วิเคราะห์วรรณคดี และวรรณกรรมไทยอย่างเห็นคุณค่า ซึ่งมีเนื้อหาสะท้อนศิลปวัฒนธรรมไทย เพื่อสรุปความรู้ข้อคิด และวิเคราะห์องค์ประกอบทางวรรณกรรม และนำมาประยุกต์ใช้ในชีวิตจริง เรียนเกี่ยวกับเรื่อง บทละครพูด / นิทานคำกลอน/พระบรมราชาบาท/บทกวีเอราวัณ/

## Thai Language & Culture 10

Grade: 10      Credit: 1      Length: *full year*

### Summary:

1.การอ่าน ใช้กระบวนการอ่านการอ่านออกเสียงบทร้อยกรองได้ถูกต้องตามฉันทลักษณ์ และสามารถประเมินค่าแนวคิดเรื่องทีอ่านได้อย่างมีหลักการและเหตุผล รวมทั้งวิจารณ์แนวคิดหลักจากบทร้อยกรองได้อย่างน่าเชื่อถือ

2.การฟัง การดู และการพูด โดยฟังและดูบทความเกี่ยวกับเหตุการณ์สำคัญต่าง ๆ โดยสามารถแปลความ ตีความ และขยายความได้อย่างเหมาะสม รวมทั้งสามารถแสดงความคิดเห็น วิเคราะห์ เปรียบเทียบ ได้อย่างมีหลักการและเหตุผล ตลอดจนการพูดนำเสนอความคิดความรู้ อย่างมีวัตถุประสงค์ชัดเจน และมีลีลาการนำเสนออย่างเหมาะสม พูดเล่าเรื่องถ่ายทอดเนื้อหา โดยใช้หลักการของการแต่งบทกวีได้ชัดเจน

3.การเขียน ใช้กระบวนการเขียนประโยค เรียงความ บทความ สามารถใช้วิธีการเขียนแบบบรรยายและพรรณนา และสามารถแสดงความคิดเห็น โน้มน้าวใจผู้อ่าน ได้อย่างมีจุดมุ่งหมายที่ชัดเจน และถูกต้องตามกาลเทศะ ด้วยลายมือ และใช้เครื่องหมายวรรคตอนที่ต้อง

4.หลักการใช้ภาษา มีความรู้ความเข้าใจเรื่อง คำที่มาจากภาษาบาลี สันสกฤต คำที่มาจากภาษาต่างประเทศ เข้าใจความหมายคำและสำนวน โดยสามารถนำความรู้ที่ได้ไปใช้ในการสื่อสารประจำวันได้อย่างเหมาะสม

5.ศึกษาวรรณคดีและวรรณกรรมศึกษาวรรณคดีและวรรณกรรมที่เป็นรูปแบบร้อยแก้วและร้อยกรองที่มีเนื้อหาสะท้อนศิลปวัฒนธรรมไทย เพื่อให้เกิดจิตสำนึกและเห็นคุณค่าของการปฏิบัติตนตามค่านิยมของไทย ตลอดจนเพื่อสามารถวิเคราะห์แนวคิดสำคัญแล้วนำไปใช้ในชีวิตประจำวันได้

## Thai Language & Culture 11

Grade: 11      Credit: 1      Length: *full year*

### Summary:

1.การอ่าน ใช้กระบวนการอ่านเก็บใจความสำคัญ เพื่อนำไปใช้วิจารณ์ญาณในการประเมินประสิทธิภาพของการใช้ภาษาและความน่าเชื่อถือของข้อมูลที่อ่าน

2.การฟัง การดู และการพูด โดยฟังและดูบทความเกี่ยวกับเหตุการณ์สำคัญต่าง ๆ โดยสามารถแปลความ ตีความ และขยายความได้อย่างเหมาะสม รวมทั้งสามารถแสดงความคิดเห็น วิเคราะห์ เปรียบเทียบ ได้อย่างมีหลักการและเหตุผล ตลอดจนการพูดนำเสนอความคิดความรู้ อย่างมีวัตถุประสงค์ชัดเจน และมีลีลาการนำเสนออย่างเหมาะสม พูดเล่าเรื่องถ่ายทอดเนื้อหา โดยใช้คำและสำนวนภาษาได้อย่างมีพลังและสื่ออารมณ์ความรู้สึกได้อย่างชัดเจน

3.การเขียน ใช้กระบวนการเขียน เขียนสื่อสาร เขียนเรียงความ ย่อความ และเขียนเรื่องราวในรูปแบบต่างๆ เขียนรายงานข้อมูลสารสนเทศ และรายงานการศึกษาค้นคว้าอย่างมีประสิทธิภาพ

4.หลักการใช้ภาษา เขียนเชิงวิเคราะห์เบื้องต้น ได้อย่างมีจุดมุ่งหมายที่ชัดเจน และถูกต้องตามกาลเทศะ ด้วยลายมือ และใช้เครื่องหมายวรรคตอนที่ต้อง

5.ศึกษาวรรณคดีและวรรณกรรมที่เป็นรูปแบบร้อยแก้วและร้อยกรอง เพื่อศึกษาองค์ประกอบและนำเสียงของงานวรรณกรรม ตีความความหมายทั้งโดยตรงและโดยนัยเพื่อความเข้าใจเชิงลึก เพื่อสามารถนำไปกล่าวอ้างตามหลักการพิจารณาคุณค่าวรรณกรรมและวรรณคดี โดยจะเน้นกลวิธีการประพันธ์และความลึกซึ้งในการใช้ภาษาของผู้แต่ง

## Thai Language & Culture 12

Grade: 12      Credit: 1      Length: *full year*

## Summary:

1. การอ่าน ใช้กระบวนการอ่านเก็บใจความสำคัญเพื่อนำเสนอแนวทางการแก้ไขและการพัฒนาที่มั่นคงด้านทรัพยากรและการเปลี่ยนแปลงด้านวัฒนธรรม
2. การฟัง การดู และการพูด โดยฟังและการดูบทความเกี่ยวกับเหตุการณ์สำคัญต่าง ๆ โดยสามารถ แปลความ ตีความ และขยายความได้อย่างเหมาะสม รวมทั้งประเมินความน่าเชื่อถือของข้อมูล ตัดสินสรุปทางเลือก จนนำไปใช้ในชีวิตประจำวันได้อย่างเข้าใจแล้วสันติสุข ตลอดจนการพูดนำเสนอความคิดความรู้ อย่างมีวัตถุประสงค์ชัดเจน และมีผลการนำเสนออย่างเหมาะสม พูดเล่าเรื่องถ่ายทอดเนื้อหา โดยใช้คำและสำนวนภาษาได้อย่างมีพลังและสื่ออารมณ์ความรู้สึกได้อย่างชัดเจน
3. การเขียน ใช้กระบวนการเขียนแสดงความรู้ ความคิดเห็นเพิ่มเติมอย่างมีเหตุผล ด้วยลายมือที่อ่านง่าย ชัดเจน ในเวลาที่กำหนดและใช้ภาษาที่ถูกต้องเหมาะสมกับบริบท
4. หลักการใช้ภาษา เขียนเชิงวิเคราะห์เบื้องต้น ได้อย่างมีจุดมุ่งหมายที่ชัดเจน และถูกต้องตามกาลเทศะ ด้วยลายมือและใช้เครื่องหมายวรรคตอนที่ถูกต้อง
5. ศึกษาวรรณคดีและวรรณกรรมที่เป็นรูปแบบร้อยแก้วและร้อยกรอง เพื่อศึกษาองค์ประกอบและ น้ำเสียงของงานวรรณกรรม ตีความความหมายทั้งโดยตรงและโดยนัย โดยวิธีการศึกษารูปแบบและน้ำเสียง ของงานภูมิหลังทางด้านประวัติศาสตร์ เพื่อรู้และเข้าใจจุดประสงค์ของผู้แต่ง สังเคราะห์แนวคิดและเข้าใจหลักการดำเนินชีวิตและสภาพความเป็นอยู่ของคุณในสังคมอย่างกว้าง รวมทั้งมองเห็นอิทธิพลที่วรรณกรรมและสังคมมีผลต่อกัน

## Thai for Foreign Students

While non-Thai students are not required to attend Thai class as often as Thai nationals, ICSN still provides opportunities for foreign students to continue the development of their Thai language proficiency. Our TFS classes offer our non-Thai students the opportunity to continue learning the language at a slower and more individualized pace.

### Thai for Foreign Students 06

Grade: 6      Credit: 1      Length: *full year*

Summary: No separation of foreign children

### Thai for Foreign Students 07

Grade: 7      Credit: 1      Length: *full year*

Summary:

1. Reading  
Use the process of reading to create ideas and knowledge to be used to make decisions to solve problems in life and love to read.
2. Please use the lessons to write descriptions and stories.
3. Listening to the topic Saramath chooses to listen and look critically and speaks, showing knowledge of ideas at the bottom of various contents, such as critical and original.

### Thai for Foreign Students 08

Grade: 8      Credit: 1      Length: *full year*

Summary: Students have Thai language skills. In basic communication (speech), such as shopping, traveling and vocabulary used in daily life students can read

*\*\*Thai classes for foreign students in Grades 9-12 can be found in the Foreign Languages department\*\**

# 2022-2023 Enrichment Schedule

## *Middle School Course Offerings (G7-8)*

Semester 1	Semester 2
<ul style="list-style-type: none"><li>• Filmmaking &amp; Production I</li><li>• Graphic Design</li><li>• Digital Art</li><li>• Body Fitness</li><li>• American Flag Football</li><li>• Middle School Band</li><li>• Middle School Choir</li><li>• General Music</li><li>• General Art</li><li>• Modern History I</li><li>• Chinese I</li></ul>	<ul style="list-style-type: none"><li>• Internet of Things</li><li>• Web Development</li><li>• Basketball</li><li>• Volleyball</li><li>• Middle School Band</li><li>• Middle School Choir</li><li>• General Music</li><li>• Intermediate Art</li><li>• Modern History II</li><li>• Chinese II</li></ul>

## *High School Course Offerings (G9-12)*

Semester 1	Semester 2
<ul style="list-style-type: none"><li>• Filmmaking &amp; Production I</li><li>• Graphic Design</li><li>• Digital Marketing</li><li>• Computer Programming I</li><li>• Digital Art</li><li>• Business I</li><li>• American Flag Football</li><li>• Body Fitness</li><li>• Soccer</li><li>• High School Band</li><li>• High School Choir</li><li>• Japanese I</li><li>• Chinese I</li><li>• Chinese III</li><li>• Anatomy &amp; Physiology</li><li>• Forensic Science</li><li>• Pop Culture</li><li>• Advanced Art</li><li>• Introduction to Communication</li><li>• Introduction to Philosophy</li><li>• Modern History I</li></ul>	<ul style="list-style-type: none"><li>• Internet of Things</li><li>• Web Development</li><li>• Computer Programming II</li><li>• Software Engineering: Game Design</li><li>• Business II</li><li>• Volleyball</li><li>• Basketball</li><li>• Yoga</li><li>• Japanese II</li><li>• Chinese II</li><li>• Chinese IV</li><li>• High School Band</li><li>• High School Choir</li><li>• Zoology</li><li>• Advanced Art</li><li>• Studio Art</li><li>• Speech &amp; Debate</li><li>• Modern History II</li><li>• Teacher's Aide</li></ul>

# AP Program

2022-2023

## *Live In-Person Course Offerings*

The below classes are offered in school taught by ICSN teachers. These teachers have received training in their respective subjects and their course schedules and curriculums have been certified by the College Board as official AP Courses.

English	Mathematics	Science
<ul style="list-style-type: none"><li>AP English Literature &amp; Composition</li></ul>	<ul style="list-style-type: none"><li>AP Calculus AB</li></ul>	<ul style="list-style-type: none"><li>AP Biology</li><li>AP Chemistry</li><li>AP Physics 1 &amp; 2</li></ul>

## *Online Course Offerings*

The below classes are among the courses our students take through our partner, Northstar Academy. These classes are certified by the College Board through Northstar and awarded to students as transfer credits on their ICSN transcript. Students are able to use between 2-5 periods per week during the school week to complete their assignments for these classes.

- AP Microeconomics
- AP Macroeconomics
- AP Physics I
- AP Psychology
- AP US History

\*Other classes are available upon request



# Academic Support

*How can we learn to overcome challenges and thrive despite obstacles?*

At ICSN, we are passionate about helping students grow and develop no matter their unique learning difficulties. While we desire to maintain homogeneous learning groups within classes, we also recognize the occasional need to separate particular groups of students for more specialized teaching and remediation. To address this need, we have organized courses that are designed to reach groups of students with academic struggles in particular areas. Some of the below classes are required for students with qualifying test scores or teacher recommendation and others are taken on a voluntary basis.

## Language Lab

Grade: 6-10    Credit: 0.5    Length: 1 semester

**Summary:** Language Lab is a required course in our English Intervention program. Students in EI attend Language Lab 4 times a week for focused, dedicated support in their areas of English language weakness or deficiency. Language Lab teachers are specially trained to assess students' overall English proficiency and then gear their instruction to meeting each student's individual needs.

## Math Enrichment

Grade: 6-11    Credit: 0.5    Length: 1 semester

**Summary:** Math Enrichment is a course designed for students who struggle in Mathematics and could use a bit of extra time to reinforce concepts being learned in their regular grade-level Mathematics course. Math Enrichment teachers work closely with the regular Math teacher in each grade to align their course content and assistance to best meet the students' individual needs.

## Academic Enrichment

Grade: 6-12    Credit: 0.5    Length: 1 semester

**Summary:** The purpose of Academic Enrichment is to provide a period of academic support in the students' daily schedule. Academic Enrichment allows for students to take time to focus and put in extra work on courses they are behind in as well as spend time working through difficult concepts in Math, English & Science with a teacher 1 on 1. The classroom environment in Academic Enrichment is intentionally smaller and more focused allowing for students to benefit most from the course. Students are assessed in this course based on their overall engagement, diligence and behavior. Social skills and behavior development is another major component of this course.

## *Self-Contained Support*

Self-contained courses are designed for students who are in need of learning support. These courses allow students to slow down and work through their grade level courses, but at their own pace. Students learn English, Math and Science at their grade level and are assessed the same as their peers but they are able to work through the content at whatever pace is necessary. Students are assessed in Self-Contained courses just like a regular course with weekly assessments. Class sizes are anywhere from 1-3 students. These small class sizes help with the student's focus and another benefit of the course is our "no homework" policy. We want to reduce workload and really make sure the students are grasping what they are learning.

## **Middle School & High School English**

Grade: 6-12    Credit: 1    Length: *full year*

**Summary:** Self-Contained English is all about increasing literacy based on the specific student's needs. Reading and writing are the biggest components in this course. Self-Contained English also involves sight word memorization, LPA testing, English conversation practice, a Novel study, poetry and creative writing. Similar to all self-contained courses, students learn in a 1:1 or 1:2 setting and work through the course content at their own pace.

## **Middle School & High School Math**

Grade: 6-12    Credit: 1    Length: *full year*

**Summary:** Self-Contained math classes are done through Khan Academy with teacher guidance and supervision. Students must watch the corresponding unit videos and then complete the assignments that follow. The pattern of the course is usually as follows: 4 videos, 4 practice assignments, Quiz, repeat. And then the pattern repeats itself until the student completes 3-4 quizzes. Then they have a Unit Test at the end of the unit. The students learn at their own pace but still at their own grade level. Content includes: fractions, decimals, prime and composite numbers, graphing, word problems, division and multiplication, etc.

## **Middle School & High School Science**

Grade: 6-12    Credit: 1    Length: *full year*

**Summary:** Self-contained Science is completed in class sizes of 1-4 students. The curriculum for this course is all about scientific concepts. Students are not graded on their literacy, only in their ability to communicate ideas. This is why there are many ways students are assessed in this course: audiovisual presentations, posters, experiments, scavenger hunts, dioramas, drawing and writing. The approach to this course is hands-on learning and small class sizes allow for unique activities that students in need of learning support will enjoy. Content in this course includes: Matter, electricity, ecology, ecosystems, biology, oceanology, photosynthesis and cells, architecture, geography, space and planets.