Middle School

Course Catalog 2018-2019

www.ics.edu.sg

International Community School

The following modules have been approved by the Council of Private Education (CPE).

ENGLISH

Grade 6
LANGUAGE ARTS: LITERATURE AND COMPOSITION
LANGUAGE ARTS: SPELLING AND GRAMMAR
Welcome to 6th Grade Literature and Composition class. During this class year, we will be reading and analyzing several fictional and informational texts, learning the structure of academic essay writing, producing high quality multimedia projects and presentations, and speaking and writing with correct, standardized English grammar. By the end of this course, students will learn to interact with literature and be able to express themselves in oral and written form.

Grade 7
LANGUAGE ARTS: LITERATURE AND COMPOSITION
LANGUAGE ARTS: SPELLING AND GRAMMAR
Welcome to 7th Grade Literature and Composition Class. During this class year, we will be reading and analyzing several fictional and informational texts, learning the structure of academic essay writing, producing high quality multimedia projects and presentations, and speaking and writing with correct, standardized English grammar. By the end of this course, students will learn to interact with literature and be able to express themselves in oral and written form.

Grade 8
LANGUAGE ARTS: LITERATURE AND COMPOSITION
LANGUAGE ARTS: SPELLING AND GRAMMAR
Welcome to 8th Grade Literature and Composition Class. During this class year, we will be reading and analyzing several fictional and informational texts, learning about the research process and writing a research paper, producing high quality multimedia projects and presentations, and speaking and writing with correct, standardized English grammar. By the end of this course, students will learn to interact with literature and be able to express themselves in oral and written form.

MATH

MATH COURSE 1
This course builds on the arithmetic skills developed in earlier years and introduces more complex operations such as prime factors, exponents, and parentheses. More abstract concepts are introduced as well, such as expressions and variables, coordinates, and ratios.

Area calculations are extended to more complex shapes, and basic statistical concepts are introduced and applied. Problem solving, reasoning, and connections between math and everyday applications will be emphasized throughout Math Course 1.

MATH COURSE 2

This course is a continuation of the math taught in Math Course 1. It will focus primarily on geometry, measurement, data analysis, and number sense. It will build a foundation through the use of technology, manipulatives, problem solving, and cooperative learning to prepare students for pre-algebra. Problem solving, reasoning, and connections between math and everyday applications will be emphasized throughout Math Course 2.

PRE-ALGEBRA

This course is to serve as a bridge between middle school mathematics and Algebra 1. It is designed to prepare students for a standard high school algebra course. It will build a foundation of algebraic concepts through the use of technology, manipulatives, problem solving, and cooperative learning. Concepts include algebraic expressions, linear equations, inequalities, geometry, statistics, and graphing. Problem solving, reasoning, and connections between math and everyday applications will be emphasized throughout Pre-Algebra.

ALGEBRA

Algebra 1 is a High School course earning High School credit. Middle School students should expect to be challenged. Pre-algebra skills in solving equations and inequalities are extended to include solutions of more complex equations and systems. Function notation is introduced, and linear functions are explored by graphing and analytical methods. Operations involving polynomials lead to solving quadratic equations by factoring, completing the square and graphical methods. Other nonlinear functions (inverse, radical and rational functions) are introduced briefly.

GEOMETRY

This course is a study of geometrical concepts. Students are required to know and apply definitions, theorems, and postulates of geometrical figures such as parallel lines, circles, triangles, quadrilaterals, and other convex polygons. Students are expected to know and perform the basic constructions of geometry made with a compass and a straightedge, and with technology software. Students will also write direct and indirect proofs.

SCIENCE

SCIENCE 6

In this course we will be exploring the fundamentals of Chemistry, Physics, Ecology, Astronomy, and Geology. Throughout these units, students will have hands-on opportunities to experiment with and discover some of the basic principles that fuel the modern practice of

these various scientific fields. At ICS, we try to learn by doing whenever possible so that students are not just being told about science, but instead are experiencing it for themselves. Most of the activities are driven by the online textbook "STEMscopes". STEMscopes presents students with activities that give them them opportunities to observe the scientific principles that make up the standards. Because of the nature of these activities students do a majority of the work in class, only taking home what they are unable to finish. When students do finish the activity they can turn it through STEMscopes, and return a short time later to view feedback and comments.

SCIENCE 7

In this course we will be exploring the fundamentals of Chemistry, Physics, and Biology. We will start off the year by looking chemical reactions and how they absorb and release energy. From there we are going to be exploring different types of force fields and waves and how they are used in modern technology. At the end of the year we will look at the basic anatomy of plant and animal cells. Throughout these units students will have hands on opportunities to experiment with and discover some of the basic principles that fuel the modern practice of these various scientific fields. At ICS, we try to learn by doing whenever possible so that students are not just being told about science, but instead are experiencing it for themselves.

SCIENCE 8

In this course we will be exploring the fundamentals of Physics, Biology, and Meteorology. We will start out by learning how gravity and elasticity can be used for energy, then we will move on to biology and learn how genes and genetic mutations are passed on through generations of various species. At the end of the year we will look at the atmospheric and geological phenomenons that have shaped, and continue to shape our world today. Throughout these units students will have hands on opportunities to experiment with and discover some of the basic principles that fuel the modern practice of these various scientific fields. Here we try to learn by doing whenever possible so that students are not just being told about science, but instead are experiencing it for themselves.

SOCIAL STUDIES

SOCIAL STUDIES 6

This course aims to cover the basics of geography - both physical and human. Students will study the physical geography of different regions of the world and learn how this often directly impacts the cultural ideas of a particular place. The students will become more adept at understanding the cultural diversity and political events happening around the world.

SOCIAL STUDIES 7

This course will be one that focuses on the themes of human civilization. It will focus primarily on the River Valley civilizations of Mesopotamia, Egypt, India, China, as well as the foundations

of Western thought in the civilizations of the Greeks and finally the Romans. We will examine key historical movements, events and figures and explore the interconnections of people, places, events, and developments.

SOCIAL STUDIES 8

This course will cover the growth of the United States of America from its early beginnings through to Reconstruction covering themes of exploration, revolution, freedom, development of government, expansion, industrialization, and war. It will focus primarily on the region of the United States, but will also touch on all the other areas of the world that had an impact on the U.S.'s development. We will examine key historical movements, events, and figures as well as explore the interconnections of people, places, events, and developments.

DESIGN TECHNOLOGY

DESIGN TECHNOLOGY 6

Design Technology is a project based course focused on concepts from science, technology, engineering, art, and mathematics (STEAM). Students will explore their creativity through hands-on learning and collaborative experiences in making and inventing. The projects for Design Technology 6 are centered around three themes: creating with digital media, using the design process to creative innovative artifacts, and effectively contributing to project teams. Students will learn how to use 3D modeling software to create designs and see their design come to life on a 3D printer. Students will learn camera techniques for filming and refine their video editing skills. In the "Shark Tank" project, students will learn and apply the design thinking process to create their own new product to pitch before a panel of "sharks". The learning experiences in this course have been designed to help students foster a growth mindset, allowing students to try new things, celebrate progress, and develop persistence. The overall goal of this course is to prepare students for their future courses and careers through open-ended challenges to develop complex problem solving, critical thinking, creativity, and collaborative skills.

DESIGN TECHNOLOGY 7

Design Technology is a project based course focused on concepts from science, technology, engineering, art, and mathematics (STEAM). Students will explore their creativity through hands-on learning and collaborative experiences in making and inventing. For the 2018-2019 school year, the projects in Design Technology 7 will focus on programming, human-centered design, using cyclical design to improve prototypes, and effectively contributing to project teams. Students will use JavaScript to create their own online game. Students will use microcontrollers to create robots and develop wearable inventions. In the "Shark Tank" project, students will learn and apply the design thinking process to create their own new product to pitch before a panel of "sharks". The learning experiences in this course have been designed to help students foster a growth mindset, allowing students to try new things,

celebrate progress, and develop persistence. The overall goal of this course is to prepare students for their future courses and careers through open-ended challenges to develop complex problem solving, critical thinking, creativity, and collaborative skills.

DESIGN TECHNOLOGY 8

Design Technology is a project based course focused on concepts from science, technology, engineering, art, and mathematics (STEAM). Students will explore their creativity through hands-on learning and collaborative experiences in making and inventing. For the 2018-2019 school year, the projects in Design Technology 8 will focus on programming, human-centered design, project management, and effectively contributing to project teams. Students will use JavaScript to create their own online game. Students will use microcontrollers to create robots and develop wearable inventions. In The 20% Project, students will take ownership of their learning by further exploring their interests and passions and creatively solving a problem for a specific audience. The learning experiences in this course will challenge students to learn more about their world and contribute to the good in the world for the Glory of God. The overall goal of this course is to prepare students for their future courses and careers through open-ended challenges to develop complex problem solving, critical thinking, creativity, and collaborative skills.

BIBLE

BIBLE 6

This course provides an opportunity for students to discover the book of Proverbs. This Bible curriculum in the book of Proverbs was written to help the student gain the wisdom of God and then apply it to all kinds of situations that will come their way. In this course, the student will be given the opportunity to get to know and understand who God is, the author of wisdom. This study from Proverbs will help the student master the principles of wisdom that God knew would be needed for our lives today.

BIBLE 7

This course provides an opportunity for students to discover the Bible. This Bible curriculum was written to help the student gain the wisdom of God and then apply it to all kinds of situations that will come their way. In this course, the student will be given the opportunity to get to know and understand who God is, the author of all scripture. This study from Genesis to the minor prophets will help the student master the principles of wisdom that God knew would be needed for our lives today.

BIBLE 8

This course provides an opportunity for students to discover the Bible. This Bible curriculum was written to help the student gain the wisdom of God and then apply it to all kinds of situations that will come their way. In this course, the student will be given the opportunity to

get to know and understand who God is, the author of all scripture. This study from Hosea of the minor prophets to the Book of Revelation will help the student master the principles of wisdom that God knew would be needed for our lives today.

PHYSICAL EDUCATION (PE)

PHYSICAL EDUCATION
Physical Education involves not only physical movement but movement concepts, tactical awareness, fitness knowledge, and social interactions. The year will be divided into 8 units each unit will be a sports topic but things learned within the unit might not exclusively deal with that sport as we will work on mental health, social interaction or various fitness/nutritional topics. There will be seven specific sports and one unit that incompasses fitness & dance. The units covered in PE will include soccer, volleyball, pickleball (paddle sport), basketball, (team) handball, flag football, dance, HIIT, aerobic and anaerobic training, and softball.

ELECTIVES

ART
This art course includes hands-on studio explorations in drawing, sculpting, and exhibition. It also includes a glance at art history, including personal art history and art thinking. Students will engage in fun, meaningful individual and collaborative projects and activities, with an aim to develop art skills, creativity, and personal discipline.

BAND
This class gives students the opportunity to gain skills in playing various brass and woodwind instruments. Students will receive lessons on an instrument from Partners in Brass and learn the art of playing together in class.

BIBLE OUTSIDE THE BOX 1
BIBLE OUTSIDE THE BOX 2
This is an interactive class where students will be given the opportunity to explore the Word of God in a new and exciting way. During this class students will look at themes and events that happen in the Bible in a fresh and authentic way, giving students a unique avenue to look at truth and evaluate its meaning. Through this class students will be encouraged to see the Word of God come alive on a daily basis.

COMPUTER APPLICATIONS
The middle school computer class is all about teaching students the proper usage of the computers. Using computers is becoming a core skill that one should possess. People email, find information from web sites, create multimedia, publish posters, etc., in their daily life. This

module will allow them to be trained with the proper attitude and skills in how to treat the computer and the internet. Students will learn MS office, typing, blogging, and creating audio and video, etc. Students also practice their project management skills throughout this class. We expect to train the students to be responsible, critical, and logical thinkers through this class.

COMPUTER PROGRAMMING
This is a fun, collaborative, creative introduction to Computer Science. It is designed to inspire students to continue learning how technology improves real world relationships, connections, and life. Students will learn how the Internet works, basic computer programming, and develop skills such as logic, problem solving, and creativity.

CURRENT EVENTS
Students will examine significant events happening today, evaluate sources, and delve deeper for further understanding of these events and their implication for themselves, their communities, and the world.

DIGITAL PUBLISHING
Students will learn to produce and publish digital media including, but not limited to, posters, infographics, printed ads, and videos. Students will also explore and learn different video filming techniques.

DRAMA 1
DRAMA 2
Students will get the opportunity to develop their acting skills through various drama exercises and skits.

ESSENTIAL 55
The Essential 55 is an elective course that will teach students skills for learning, empathy, emotions management, problem solving skills and manners using rules numbered 1-55. Some of the topics include how to respond appropriately to adults, how to be respectful towards others, understanding the protocol when visitors are on campus, how to behave on field trips, handling disputes with other students, acceptable manners during meal times, showing acts of kindness etc. Each topic has an activity to complete using different scenarios, such as a role playing, taking short quizzes, completing fill-in-the-blank charts, puzzles and other hands on learning activities.

EXPLORING NARNIA
Students will read three of C.S. Lewis' books from The Chronicles of Narnia series and will be able to identify Biblical themes such as temptation, sacrifice, redemption, and providence. Students will also study character development in the series, compare and contrast the books with the films that have been produced based on the series, and learn about C.S.Lewis' life.

FILM
This class looks at film from a literary perspective, teaching students to view cinema as art and to critique it as such. Students will view films and evaluate each film from an academic perspective.

GOOGLE GURU
Students will learn advanced skills in the Google Apps Suite (Gmail, Drive, Docs, Sheets, Drawings), applying them in a variety of projects and providing tech support to the ICS learning community.

GOSPEL IMPACT
In this class, students will discover, think, engage, and connect with the life of Jesus Christ through studying the Gospel. Students will discover and examine the impact that Jesus has had on the world since His birth, death, and resurrection. Students will think deeply through taking part of lively discussions and actively engaging in individual and team-based, problem-solving activities in order to connect biblical truth to their own lives.

GUITAR
In Middle School Guitar, we will learn the basics of playing the acoustic guitar as well as the beginning fundamentals of music. Picking technique, common chords, and easy songs are all covered at this time. No previous experience is required as each semester we start from the beginning.

HISTORIAN TRAINING
In this elective, students will apply thinking skills such as historical argumentation, comparison, contextualization, historical interpretation, and cause and effect in the study of a specific historical topic. Over the course of the semester we will look at primary and secondary sources to try to understand how that topic affected the world at the time and continues to have an impact today.

INTERPERSONAL LIFE SKILLS
This is a course aimed at middle school students that introduces concepts and tools to develop skills in the areas of communication (questioning, paraphrasing, non-verbal communication, reflecting feelings, perspective taking), active listening, time management, friendship and social problem solving. Other topics covered include managing anger, anxiety and stress and learning about the difference between assertive, aggressive and passive behavior. Course delivery relies on role play, self-reflection and group work to learn and reinforce concepts. This is a non-academic course where grading is based on participation.

LEADERSHIP
"Leadership is lifting a person’s vision to high sights, the raising of a person’s performance to a higher standard, the building of a personality beyond its normal limitations." Leadership class

is designed to train and equip students to develop leadership qualities and step into the role and responsibility of being a leader in their class, in their school and in their community.

MAKING AND TINKERING
In this class, students will think with their hands and learn through doing. Students will work on various projects to create and invent using recycled material, craft and hardware supplies, electronics, and 3D printers.

MANDARIN 1
Mandarin 1 introduces students to the foundation of the language including Han Yu Pin Yin (the Mandarin phonetic system) and Chinese character writing strokes. Students will learn basic listening, speaking, reading and writing skills based on topics covered such as Greetings, Numbers, Telling the Date and Time, Introducing Oneself and One's Family, Occupations, and Transport.

MANDARIN 2
Mandarin 2 is an intermediate course that continues to train students' listening, speaking, reading and writing skills by introducing them to more topics related to school and daily life. The students are also exposed to a wider range of vocabulary and more simple sentence structures.

MANDARIN 3
Mandarin 3l students will continue to learn grammar and different phrases to form comprehensible ideas that will be used in common conversation. The topics covered will consist of characteristics of people, life around the house, the school environment, and food culture and cuisine. These units will allow the student to grow in the ability to read, write, speak, and listen. Familiar topics and simple sentences will be used to evaluate the student's oral speaking skills and their listening comprehension skills. Similarly, reading and writing skills will be learned through the information that has been given through the familiar text that the class will be studying during the year.

MANDARIN 4
MS Mandarin 4 students will continue to learn Chinese culture, literature, idioms and its usage, as they study the language more in depth. In this course, students will develop the proficiency to communicate in a Mandarin-speaking environment, allowing them to discuss and express their ideas effectively. Students will develop and expand their language skills in four main areas: listening, speaking, reading, and writing. Listening and speaking skills will improve with increased understanding during conversations on a larger variety of interests. The aspect of reading focuses on interpreting a variety of forms of communication that can be applied to everyday life. Writing exercises will be used to help the student create more coherent These skills will be developed through a larger variety of topics: people and relationships, traveling around the world, Chinese culture, and work and activities. Students will also be introduced to speaking and writing for formal settings.

MODERN WORSHIP BAND
Students will examine historical and contemporary church music styles and themes. Through preparation and performances for ICS Chapel and other events, students will consider the impact of technology on worship and the purposes of music worship. NOTE: By signing up for class, students will be performing on either percussion, keyboard, guitar, bass, strings, or singing.

MUSIC
Come one, come all, and learn all about the ingredients of music. This class provides students with a variety of musical experiences to develop a critical and discerning judgement of musical performances, compositions, and productions. Among different genre studies this class will also cover the human voice, and digital recording and manipulation. Not only creating music together as a class (no prior skills necessary), but listening and hearing. MUST HAVE: Students are required to bring headphones or earbuds with them everyday.

READING AND WRITING LAB
This class is designed to help students who struggle in reading and writing. Students will learn skills and strategies to boost their reading comprehension and fluency.

ROBOTICS
Students learn basic theories of robotics and how the machine in everyday life works. Students are being posted challenges or real life problems to tackle with. Upon completion of the course, students should be able to design robotic systems that resolves real world problems.

SPEECH
In this class, students will learn the elements of great public speeches and have the opportunity to practice these elements in a number of different speaking activities.

SPORTS HISTORY AND THEORY
This course explores the history and theory behind different sports such as basketball, volleyball and soccer, with the goal of giving students an in-depth look at the rules and the "plays" strategy that go into playing a sport. Projects include researching the history and theory of less popular known sports and present the information to their peers.

STUDY SKILLS
This class gives middle school students tips on staying organized and taking notes, while providing a bit of extra time to complete homework.

VIDEO EDITING AND PRODUCTION
This course is designed to teach students digital video production. Students will learn about various techniques as they work on several mini projects.

WEBSITE CREATION AND DESIGN
In this class, students will explore an introduction to web design and development, learning fundamental design principles through creating webpages. Some programming will be introduced.

YEARBOOK
This class gives students the opportunity to manage a project that includes page design, layout, writing articles, taking and editing photographs, all within the context of producing a yearbook for the particular school year.

International Community School (Singapore)

27A Jubilee Road
Singapore 128575

T +65 6776 7435
F +65 6775 7436
E info@ics.edu.sg

CPE Reg No: 199303918N
Reg Period: 06/07/15 to 05/07/19

Cert No: EDU-2-2070
Validity: 25/11/2015 - 24/11/2019