

# Kamloops Christian School Course Descriptions

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# Grade 9 Courses

## Social Studies 9

How does History shape a nation and a people? Canada is a culturally and linguistically diverse country. What is the Canadian identity and what is Canada's place in the world? This course will explore Canada's history from its infancy in 1750 to when it was well on its way of becoming an autonomous nation by 1919. Social Studies prepares students to be active members of society and therefore, the classroom should mirror this. Students will be expected to participate actively and develop their critical thinking and communication skills and have a deeper understanding of the values and events that contributed to the building of our great nation.

## Math 9

In this course we will be learning operations with rational numbers, exponents, linear relations, algebra, polynomials and financial literacy. The main focus of the course is to build foundational problem solving skills that can be generalized through all future high school mathematics.

## Science 9

## English 9

In this course we will be looking at units of study which include poetry, short stories, novels, and plays. As we progress, we will also be looking at ways to improve grammar, punctuation, and spelling, as well as using various strategies to improve reading and writing. By the end of English 9, you will be able to recognize good and bad grammar and spelling, analyze writing for its different meanings, produce quality work for different situations, and have a firm grasp of skills in oral communication, writing paragraphs and essays, and thinking critically.

## PE 9

The goal of this course is to refine the knowledge, understanding, and skills necessary to maintain physical health throughout students' lives. We aim to have students appreciate the importance of physical well-being and its relationship to the intellectual, mental and social health of all individuals. In grade 9, students will start to develop a repertoire of physical exercise and activity that they can continue into adulthood. Students will actively participate in

units combining all of the activities covered in PE 7 and 8 and build on concepts learned in those grades. Students will experience multiple ways to understand and improve their fitness.

## Computer Apps 9

In this course we will seek to improve overall digital literacy skills first by understanding what a computer is and how it works. We will then continue on with an overview of the Microsoft Office suite and learn how it compares with the Google Suite and become proficient with some of the main features of each. We will also be introducing the basics elements of computer programming and how to use Javascript code to create animations and even a simple game.

## French 9

French 9 continues to build on the written and spoken vocabulary and grammatical structures introduced in Middle School French. The course focuses on regular and irregular verb conjugation in the present and past tenses, including multiple negative forms. It will also introduce written and spoken vocabulary in the areas of comparisons, travel, shopping, professions and housing

## Alpha 9

## Photography

Photography 9-12 is an introductory style course that focuses on the fundamentals of photography. Students will learn how photography is a unique art form that captures images for artistic expression. The cumulative activity will consist of a themed gallery of photos that will be presented and put on display for the KCS community. Photographs will demonstrate personal, cultural, social, environmental, and historical contexts that aim to tell a story. The students will also learn to edit and enhance photos they take and work together to create a yearbook for KCS.

## Local Missions

Local Missions 9-12 is a service learning course intended to help students grow in Christian character and identity. Students will develop their capacity for empathy and compassion while exploring outreach opportunities within their community. Just as faith without works is dead (James 2:14-17), empathy and compassion are meaningless without action. Students will be asked to develop and implement plans to help meet the needs they find within our community. Through the process of acting as justice seekers and servant workers, students will regularly reflect on their experiences and what it truly means to be image bearers of God.

# ADST

## Textiles

Textiles 9-12 is a design based class which uses soft media as its primary “material.” Students will learn to construct projects using patterns/designs and applying appropriate textiles based skills such as embroidery, felting, weaving, knitting/crochet, machine sewing. There will be opportunities to further knowledge of fabrics, fitting techniques, surface design (printing, stamping, dying), and use of commercial patterns. Students will learn: sewing/pressing safety rules, the use and care of sewing machines and pressing equipment; measurement techniques; basic alterations & pattern fitting; and a variety of construction skills. This is a project-based course

## Improv

Improv 9-12 is an active participation drama course that develops quick thinking, oral presentation and teamwork skills within the broad structure of the Canadian Improv Games. The course starts with a review of basic speech delivery skills. Each student will perform regularly both as an individual and as part of a team in timed scenarios on stage. The class will culminate with participation in a Provincial festival in the spring.

## Art

Art means something different to everyone but most assume that visual arts are supposed to appear beautiful. Because of this, some people may think they can't be an artist because all they can draw are stick people but in this visual Arts class focus is not on becoming an amazing painter or drawer but on discovering what kind of art inspires each individual. If all you can draw are stick people, create your own stick person style! Students will explore their own Artist identity with the freedom to explore different mediums, styles, and techniques while also being challenged to build their skills and discover what inspires them and why they would want to create art.

## Art: Sculpture (Thursdays)

Sculpture refers to an art form which involves the transformation of a solid material into a form or shape. Sculpting in 3D is a valuable way to develop observational skills, attention to detail, and hand-eye coordination, because rather than seeing art from one perspective as in 2D art, the artist

must consider how their piece will be viewed from all angles. In this class, students will explore multiple mediums to sculpt with and create pieces that explore both their own creativity and what inspires them.

## Foods 9

This is an introductory cooking class in which students will learn a variety of useful cooking techniques and kitchen skills while experiencing tasty food. Students will learn about safe food practices, kitchen safety, and the Canadian food guide. Units may include baking, breakfast, lunch, supper, and snacks. Students will be introduced to multiple cooking methods, proper use of tools, and appropriate clean up routines. This is a lab based course in which learning will be experiential and design based.

## Drama 9

Drama 9 focuses on the development of oral presentation, self-confidence and acting skills. Students will be exposed to the vocabulary of the professional theatre as they learn to perform through structured exercises on stage. The mechanics of script writing and stagecraft will also be explored. Students will learn to develop a character fully while participating in a full-length, staged production at the end of the semester.

## Japanese

**Nihongo wa benkyou o shimasu ka?** (Would you like to study Japanese?) In Japanese class, students will learn the 4 language skills of reading, writing, listening and speaking with an emphasis on reading and speaking. Students will learn the basic writing scripts of hiragana and katakana as well as some basic kanji (Chinese characters). Japanese culture will be taught throughout the course through readings and videos that deal with Japanese food, life style, music, sports, manga, and anime. **Gambare!** (Fight!, do your best!)

## Drafting

In this course we will be studying the principles of drafting and design. We will be using 2D and 3D drafting software to create designs and models of many different types of objects. We will also be 3D printing some of the objects that we design as a way to tangibly explore the design process.

## Grade 10 Courses

## Math 10 Foundations and PreCalculus.

In this course we will be exploring a variety of pre-calculus mathematics skills including prime factorization, polynomials, trigonometry, functions, linear equations, exponents, radicals and financial literacy

## Math 10 AW

In this course we will continue to explore mathematical skills within the spheres of proportional reasoning, measuring 3D objects, number skills, probability and statistics.

## English 10 (Composition + Literary Studies)

Grade 10 English will focus on two main components: **composition and literary analysis**. Students will be introduced to the *writing process*, focusing on four main elements: thinking about writing, planning to write, creating a composition, reflecting on writing, and presenting our writing. Students will develop and strengthen a variety of different writing composition types - essays, letters/ e-mails, poetry, in-text citations and acknowledgments, note taking, debating, etc. A key component of this course will be presenting and communicating our writing. Students will engage with writing processes that aim to support creativity and enhance clarity of expression. Students will engage in a variety of written texts and apply their comprehension skills; the exploration of text and story will deepen each student's understanding of diverse, complex ideas about identity, others, and the world. This course has students work on an independent novel study throughout the term, where students are responsible for choosing their own novel, critically responding to their text, and presenting their comprehension of the novel in a unique and creative way.

## Socials 10

In this course, we will examine the major events of the twentieth century that helped shape Canada. Students will develop a deeper understanding of history by reading texts of differing perspectives and be able to identify bias. Students will study about the different major political ideologies such as communism, fascism, socialism, and liberal democracy/capitalism and major events such as the Depression, WWII, and the Cold War. Students will learn about Canada's development both domestically and globally and be challenged to discuss complex and controversial issues both from the past and present. Furthermore, students will develop their awareness of the factors contributing to climate change and identify practical solutions. Students will be required to participate actively and continue to develop their research, critical thinking, and communication skills.

## PE 10

The goal of this course is to refine the knowledge, understanding, and skills necessary to maintain physical health throughout students' lives. We aim to have students appreciate the importance of physical well-being and its relationship to the intellectual, mental and social health of all individuals. In grade 10, students will start to develop a repertoire of physical exercise and activity that they can continue into adulthood. Students will actively participate in units combining all of the activities covered in PE 8 and 9 and build on concepts learned in those grades. Students will experience multiple ways to understand and improve their fitness.

## French 10

In this course, students will continue to develop their written and spoken skills in the French language. Building on earlier French courses, French 10 will focus more on the development of conversational skills while continuing to develop vocabulary and grammatical knowledge. Topics include regular and irregular common verb conjugation in the past, present and future tenses, use of direct object pronouns for natural conversation flow, imperative verb forms and the use of comparative and superlative adjectives.

## Science 10

Science 10 provides an introduction to selected topics in the areas of biology, chemistry, physics, and earth/space science. Through the study of these topics students will also be increasing their scientific literacy and developing scientific inquiry skills. The curricular competencies and areas of focus are: questioning, planning, analyzing, evaluating, applying, and communicating. Additionally, students will examine the culture, values, and belief systems present in different worldviews. Students will discover more about God as they see the beauty, order, and purpose evident in His creation while growing in their role of caretaker.

## CLE 10

Career Education curriculum offers students the opportunity to research possible career paths in personally meaningful and goal-oriented ways. Career-life development is the process of self-discovery where students will have an opportunity to complete a variety of assessments to identify and develop their personal interests, passions, and competencies. Students complete a work readiness unit that includes resumes, cover letters and interview skills. Students will also explore topics such as Mental Health, Drug and Alcohol abuse and basic business topics such as insurance, credit and investment.

## Metalwork 10

## Spanish 10

Spanish 10 is a continuation of Spanish 9 Entry/Intro Spanish 11 and has intro/entry level as a prerequisite. In this course, students will continue learning the same competencies, however, with increasingly complex vocabulary, sentence structures, and expressions, including: types of questions, situations and events, opinions, past, present, and future time frames, elements of common texts, common elements of stories, idiomatic expressions, and cultural aspects of various Hispanic communities. Students will learn how to speak, read, listen and write questions using all tenses and will also expand their lexical knowledge.

## Lead 1

The Grade 10 LEAD 1 program consists of four strands: chapel worship, biblical studies, Global Intercultural Studies, and a missionary practicum carried out cooperatively with Impact Ministries in Guatemala, which is currently on hold due to Covid-19. We will be doing our missions practicum locally if we are not able to travel to Guatemala this spring.

## Outdoor Ed

Students will become familiar with basic survival training, knowledge of our local environment, and will experience a variety of Outdoor excursions with the intention of helping students grow in their awareness of God's creation. We hike, bike, fish, learn outdoor survival skills, play outdoor games, learn orienteering, snow shoe, and cross country ski.

## Textiles 10

Textiles 9-12 is a design based class which uses soft media as its primary "material." Students will learn to construct projects using patterns/designs and applying appropriate textiles based skills such as embroidery, felting, weaving, knitting/crochet, machine sewing. There will be opportunities to further knowledge of fabrics, fitting techniques, surface design (printing, stamping, dying), and use of commercial patterns. Students will learn: sewing/pressing safety rules, the use and care of sewing machines and pressing equipment; measurement techniques; basic alterations & pattern fitting; and a variety of construction skills. This is a project-based course

## Robotics 10

This is a very hands on introduction to robotics where students will learn the foundations of robotics. We will learn some fundamentals of electronics and coding as we complete prescribed tasks and challenges using a variety of sensors to control our robots.

## Photography

Photography 9-12 is an introductory style course that focuses on the fundamentals of photography. Students will learn how photography is a unique art form that captures images for artistic expression. The cumulative activity will consist of a themed gallery of photos that will be presented and put on display for the KCS community. Photographs will demonstrate personal, cultural, social, environmental, and historical contexts that aim to tell a story. The students will also learn to edit and enhance photos they take and work together to create a yearbook for KCS.

## Local Missions

Local Missions 9-12 is a service learning course intended to help students grow in Christian character and identity. Students will develop their capacity for empathy and compassion while exploring outreach opportunities within their community. Just as faith without works is dead (James 2:14-17), empathy and compassion are meaningless without action. Students will be asked to develop and implement plans to help meet the needs they find within our community. Through the process of acting as justice seekers and servant workers, students will regularly reflect on their experiences and what it truly means to be image bearers of God.

## Improv

Improv 9-12 is an active participation drama course that develops quick thinking, oral presentation and teamwork skills within the broad structure of the Canadian Improv Games. The course starts with a review of basic speech delivery skills. Each student will perform regularly both as an individual and as part of a team in timed scenarios on stage. The class will culminate with participation in a Provincial festival in the spring.

## Art

Art means something different to everyone but most assume that visual arts are supposed to appear beautiful. Because of this, some people may think they can't be an artist because all they can draw are stick people but in this visual Arts class focus is not on becoming an amazing painter or drawer but on discovering what kind of art inspires each individual. If all you can

draw are stick people, create your own stick person style! Students will explore their own Artist identity with the freedom to explore different mediums, styles, and techniques while also being challenged to build their skills and discover what inspires them and why they would want to create art.

## Art: Sculpture (Thursdays)

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## Drafting

In this course we will be studying the principles of drafting and design. We will be using 2D and 3D drafting software to create designs and models of many different types of objects. We will also be 3D printing some of the objects that we design as a way to tangibly explore the design process.

## Drama 10

Drama 10 focuses on the development of oral presentation, self-confidence and acting skills. Students will be exposed to the vocabulary of the professional theatre as they learn to perform through structured exercises on stage. The mechanics of script writing and stagecraft will also be explored. Students will learn to develop a character fully while participating in a full-length, staged production at the end of the semester.

## Japanese

## Woodworking 10

## Grade 11 Courses

## English 11 (Composition)

Students will be introduced to the *writing process*, focusing on four main elements: thinking about writing, planning to write, creating a composition, reflecting on writing, and presenting our writing; students will also learn how to create and input in-text citations. This course will engage the students with a class novel study, as well as the study of a famous Shakespearean play. A key component of this course will be presenting and communicating our writing. Students will engage with writing processes that aim to support creativity and enhance clarity of expression. Students will engage in a variety of written texts and apply their comprehension skills; the exploration of text and story will deepen each student's understanding of diverse, complex ideas about identity, others, and the world. This course has students work on an independent novel study throughout the term, where students are responsible for choosing their own novel, critically responding to their text, and presenting their comprehension of the novel in a unique and creative way.

## SS 11

Social studies 11 is a survey course that gives students the opportunity to study various topics in Humanities. Students will learn about politics and government in Canada, the justice system and the courts, climate and social justice, basic economics, and philosophy. In this course, students will continue to develop their research, critical thinking, and communication skills. A major requirement of the course is to complete a major research essay.

## Pre-Calc 11

In this course we will be exploring a variety of mathematics skills which will prepare students for the math required in calculus and the sciences. This will include factoring polynomials, quadratic equations and functions, linear and quadratic inequalities, real number systems radical expressions, financial literacy, problem solving skills and more.

## AW Math 11

In this course we will continue to explore mathematical skills within the spheres of proportional reasoning, finances, 2D and 3D objects, number skills, probability and statistics.

## Chemistry 11

Chemistry 11 is an overview of the behaviour of and interactions between atoms and molecules. Students will discover the structure of atoms and look at various models scientists use to explain atomic properties and behaviour. They will also study the many ways atoms interact with one another, the new properties that may appear, the energy changes that may result from

these interactions, and learn to predict, classify, and quantify chemical reactions. Students will investigate the implications of organic chemistry on life and our understanding of creation while exploring what it really means to be caretakers of creation and image bearers of God.

## Life Science 11

Life Science 11 is an overview of the characteristics shared by all living things as well as the unique features of plants, animals, and microorganisms. Students will discover more about God as they see the beauty, order, and purpose evident in His creation through the study of biology. Students will see how life is the result of continuous interactions at the cellular and molecular level and examine how complex “simple” lifeforms can truly be. They will delve into the realm of flora and discover ways organisms are able to adapt, change, survive, and thrive through evolutionary processes. Finally, students will investigate the animal kingdom and consider the various ways that organisms are grouped and classified.

## PE 11

The goal of this course is to refine the knowledge, understanding, and skills necessary to maintain physical health throughout students’ lives. We aim to have students appreciate the importance of physical well-being and its relationship to the intellectual, mental and social health of all individuals. In grade 11/12, students will start to develop a repertoire of physical exercise and activity that they can continue into adulthood. Students will actively participate in units combining all of the activities covered in PE 9 and 10 and build on concepts learned in those grades. Students will experience multiple ways to understand and improve their fitness.

## Media Design 11

In this course we will be exploring several different modules including video editing, photo editing, website design and graphic design. Modules will consist of mini lessons and projects to build student skills. Students will be given service opportunities for their some projects to be used to benefit the school.

## Culinary Arts 11/12

Culinary Arts 11/12 is a cooking class which focuses on culinary best practices; principles of culinary methodology; as well as the art of preparing, cooking, and presenting meals to enhance the dining experience. Students will review food safe practices and proper kitchen sanitation while expanding on student knowledge of food Groups, food preparation techniques, function of ingredients in recipes, and the skillful use of equipment. This is a lab based course in which learning will be experiential and design based.

## Metalwork 11

## Robotics 11

In this course we will be looking deeper into the electronics and coding necessary to build a robot. We will study the relation of structure and power to motion and the relation of sensors and control to logic. We will also 3D printing components for our robots and learning how to program a microcontroller to interact with peripherals.

## Art 11

## Drama 11

Drama 11 focuses on the development of oral presentation, self-confidence and acting skills. Students will be exposed to the vocabulary of the professional theatre as they learn to perform through structured exercises on stage. The mechanics of script writing and stagecraft will also be explored. Students will learn to develop a character fully while participating in a full-length, staged production at the end of the semester.

## Entrepreneurship 11-12

Ever thought about what it takes to start a business? Well look no further! This course introduces students to the business world. From business plans to advertising, this course is designed for experimentation with small-scale entrepreneurial ventures. Students will be scheduled and responsible for running the KCS store during lunch breaks and during sporting events. Revenue generated will be donated to the KCS mission trips, Grade 12 Graduation, and other student serving initiatives.

## World Religions 11

This course will encourage students to think through their faith. Through a survey of world religions, students will be able to discover and counter the ideas that contradict and distort their faith. Through further reflection, and examination of the Scriptures, there should be a firm conviction of the truthfulness and validity of Christianity. This will culminate in a look at how what we have learned helps us to understand the world's landscape with respect to religions.

## Textiles 11

Textiles 9-12 is a design based class which uses soft media as its primary “material.” Students will learn to construct projects using patterns/designs and applying appropriate textiles based skills such as embroidery, felting, weaving, knitting/crochet, machine sewing. There will be opportunities to further knowledge of fabrics, fitting techniques, surface design (printing, stamping, dying), and use of commercial patterns. Students will learn: sewing/pressing safety rules, the use and care of sewing machines and pressing equipment; measurement techniques; basic alterations & pattern fitting; and a variety of construction skills. This is a project-based course

## Spanish 11 (intro)

Spanish 11 (intro) will prepare students by familiarizing them with basic aspects of the language (vocabulary, expressions, pronunciation, cultural awareness). This course is designed as an overview of the next level of Spanish (Spanish 10) and it is customized for all those who have never taken any Spanish training but would like to succeed in the missionary field and/or travel adventures. Students will learn Spanish letter patterns, gender and number, common, high-frequency vocabulary, and sentence structures using conjugations in present simple. Students will also learn how to properly ask questions, how to make descriptions (people, objects and locations), share personal interests, needs, opinions, and cultural practices in various Hispanic regions. Students will learn how to speak, read, listen and write questions using present tenses and will also learn vocabulary to build their lexical knowledge.

## Photography

Photography 9-12 is an introductory style course that focuses on the fundamentals of photography. Students will learn how photography is a unique art form that captures images for artistic expression. The cumulative activity will consist of a themed gallery of photos that will be presented and put on display for the KCS community. Photographs will demonstrate personal, cultural, social, environmental, and historical contexts that aim to tell a story. The students will also learn to edit and enhance photos they take and work together to create a yearbook for KCS.

## Local Missions

Local Missions 9-12 is a service learning course intended to help students grow in Christian character and identity. Students will develop their capacity for empathy and compassion while exploring outreach opportunities within their community. Just as faith without works is dead (James 2:14-17), empathy and compassion are meaningless without action. Students will be asked to develop and implement plans to help meet the needs they find within our community.

Through the process of acting as justice seekers and servant workers, students will regularly reflect on their experiences and what it truly means to be image bearers of God.

## ADST

### Outdoor Ed 11

Students will become familiar with basic survival training, knowledge of our local environment, and will experience a variety of Outdoor excursions with the intention of helping students grow in their awareness of God's creation. We hike, bike, fish, learn outdoor survival skills, play outdoor games, learn orienteering, snow shoe, and cross country ski.

### Improv

Improv 9-12 is an active participation drama course that develops quick thinking, oral presentation and teamwork skills within the broad structure of the Canadian Improv Games. The course starts with a review of basic speech delivery skills. Each student will perform regularly both as an individual and as part of a team in timed scenarios on stage. The class will culminate with participation in a Provincial festival in the spring.

### Drafting

### Senior Music/Worship

## Grade 12 Courses

### English 12

This course is designed to uncover one's self through story. What factors shape our beliefs and values? How can narratives of experience change our perspective and provide insight into our own lives? Students will attempt to answer these questions of self-discovery through means of creative writing, independent literature analysis, along with open conversations and debates - supported with textual evidence. Constructing meaningful personal connections between self,

text, and the world comes with approaching literature with both an open-mind, and the drive to apply what it learned to one's life. This course has students work on an independent novel study throughout the term, where students are responsible for choosing their own novel, critically responding to their text, and presenting their comprehension of the novel in a unique and creative way. Students will be required to demonstrate their comprehension orally (throughout debates and class discussions), as well as through the application of the writing process.

## Career & Life Connections 12

Career and Life Connections 12 curriculum offers students many opportunities to explore and develop personal interests, strengths, and competencies while making connections with experiential learning, career-life possibilities, and preferred post-graduation opportunities. Students discover that career-life development is not simply figuring out what they want to be when they grow up, but a lifelong journey of being and becoming who they want to be in the world and how they can make meaningful contributions in their communities. Students will also complete their mandatory Capstone project in this class.

## Social Justice 12

*He has told you, human one, what is good and what the Lord requires from you: to do justice, embrace faithful love, and walk humbly with your God. - Micah 6:8 CEB*

Social Justice 12 is a course designed to develop one's ability to critically examine and reflect on what it means to live in a just society. In this course, the students will move through three stages of social engagement. A) Awareness of social justice issues via research, case studies, and discussion including varying perspectives, B) Analysis of the issues to gain a thorough understanding of them including examination in consideration of the Bible, and C) Development of personal actionable plans for making change. In this way, students progress from awareness to analysis to action on a social justice topic of their choice. This class will include group work and participation in service based activities.

## PE 12

The goal of this course is to refine the knowledge, understanding, and skills necessary to maintain physical health throughout students' lives. We aim to have students appreciate the importance of physical well-being and its relationship to the intellectual, mental and social health of all individuals. In grade 11/12, students will start to develop a repertoire of physical exercise and activity that they can continue into adulthood. Students will actively participate in units combining all of the activities covered in PE 9 and 10 and build on concepts learned in those grades. Students will experience multiple ways to understand and improve their fitness.

## Psychology 12

This course is an introduction to some important topics and concepts in psychology. Such topics will include personality, memory, consciousness, learning, motivation and emotion, health and well-being, and mental health and psychological disorders. Students will develop strong research skills, learn to write a psychology paper, and conduct their own psychology experiment.

## Foods 12

Culinary Arts 11/12 is a cooking class which focuses on culinary best practices; principles of culinary methodology; as well as the art of preparing, cooking, and presenting meals to enhance the dining experience. Students will review food safe practices and proper kitchen sanitation while expanding on student knowledge of food Groups, food preparation techniques, function of ingredients in recipes, and the skillful use of equipment. This is a lab based course in which learning will be experiential and design based.

## Pre-Calculus 12

Pre-Calculus 12 is a continuation of several topics introduced in PreCalculus 11. Students will discover more about God as they see the logic, order, and patterns evident in His creation through the study of mathematics. PreCalculus 12 is intended to encourage numeracy and develop mathematical problem solving skills. The curricular competencies and areas of focus are: reasoning, solving, representing, applying, and connecting. They will explore geometric sequences and series before moving on to the study of functions. Students will see the components of each individual function as well as methods of function transformations such as vertical translations or stretches for rational, radical, polynomial, exponential, logarithmic, and trigonometric functions.

## Calculus 12

Calculus 12 is an introduction to the concept of limits, differentiation, and integration of functions. Students will examine the behaviour of functions which may or may not be continuous and determine limits near end points or boundaries. They will see mathematical notation as well as basic differentiation rules such as the power rule before moving on to practical applications and graphical features. Students will discover how to find the area beneath a curve, explore different methods to approximate integrals, and investigate practical applications in fields such as physics.

## Physics 12

Physics 12 is a continuation of topics from Physics 11 related to the natural laws God put in place to govern the behaviour and energy of objects in motion, from electrons to planets and galaxies. Students will delve deeper into the relationship between forces, energy, and momentum. They will observe circumstances where mechanical energy may not be conserved, such as inelastic collisions, and will expand their conservation laws to include momentum. Students will revisit one and two dimensional motion by considering more complex situations such as objects in different frames of reference and objects in circular motion. Finally, students will investigate the concept of fields as they study the motion, behaviour, and energy of objects within gravitational, electric, and magnetic fields.

## Metalwork 12

## Chemistry 12

Chemistry 12 is a continuation of topics in Chemistry 11 investigating the interactions of atoms and molecules. Students will examine conditions necessary for chemical reactions to occur, energy changes during reactions, factors that influence the rates of reaction, and reactions that establish an equilibrium rather than going to completion. They will investigate specific equilibrium systems, such as weak acid/base solutions or slightly soluble materials, then discover ways that equilibrium may be shifted. Students will discover more about God as they encounter the idea of entropy and explore some of the natural processes that are the result of our fallen state such as the oxidation reactions that produce rust.

## Robotics 12

In this course we will be looking deeper into the electronics and coding necessary to build a robot. We will study the relation of structure and power to motion and the relation of sensors and control to logic. We will also 3D printing components for our robots and learning how to program a microcontroller to interact with peripherals.

## Senior Music/Worship

## **LEAD 2: World Religions: Missions (2 Credit) 2020-21**

This course will encourage students to think through their faith. Through a survey of world religions, students will be able to discover and counter the ideas that contradict and distort their faith. Through further reflection, and examination of the Scriptures, there should be a firm conviction of the truthfulness and validity of Christianity. This will finally culminate with how this impacts a Mission program - in essence, why people around the world follow certain faiths, and how and why Christianity is needed in our world.

There are four main Big Ideas in this course that flow one from the other.

- History dictates faith formations
- Faiths mostly address social and human needs
- Christianity is counter-culture
- Learning about others can transform and solidify our own worldview

## **Outdoor Ed 12**

Students will become familiar with basic survival training, knowledge of our local environment, and will experience a variety of Outdoor excursions with the intention of helping students grow in their awareness of God's creation. We hike, bike, fish, learn outdoor survival skills, play outdoor games, learn orienteering, snow shoe, and cross country ski.

## **Photography**

Photography 9-12 is an introductory style course that focuses on the fundamentals of photography. Students will learn how photography is a unique art form that captures images for artistic expression. The cumulative activity will consist of a themed gallery of photos that will be presented and put on display for the KCS community. Photographs will demonstrate personal, cultural, social, environmental, and historical contexts that aim to tell a story. The students will also learn to edit and enhance photos they take and work together to create a yearbook for KCS.

## **Local Missions**

Local Missions 9-12 is a service learning course intended to help students grow in Christian character and identity. Students will develop their capacity for empathy and compassion while exploring outreach opportunities within their community. Just as faith without works is dead (James 2:14-17), empathy and compassion are meaningless without action. Students will be asked to develop and implement plans to help meet the needs they find within our community. Through the process of acting as justice seekers and servant workers, students will regularly reflect on their experiences and what it truly means to be image bearers of God.

# ADST

## Improv

Improv 9-12 is an active participation drama course that develops quick thinking, oral presentation and teamwork skills within the broad structure of the Canadian Improv Games. The course starts with a review of basic speech delivery skills. Each student will perform regularly both as an individual and as part of a team in timed scenarios on stage. The class will culminate with participation in a Provincial festival in the spring.

## Textiles 12

Textiles 9-12 is a design based class which uses soft media as its primary "material." Students will learn to construct projects using patterns/designs and applying appropriate textiles based skills such as embroidery, felting, weaving, knitting/crochet, machine sewing. There will be opportunities to further knowledge of fabrics, fitting techniques, surface design (printing, stamping, dying), and use of commercial patterns. Students will learn: sewing/pressing safety rules, the use and care of sewing machines and pressing equipment; measurement techniques; basic alterations & pattern fitting; and a variety of construction skills. This is a project-based course

## Art

Art means something different to everyone but most assume that visual arts are supposed to appear beautiful. Because of this, some people may think they can't be an artist because all they can draw are stick people but in this visual Arts class focus is not on becoming an amazing painter or drawer but on discovering what kind of art inspires each individual. If all you can draw are stick people, create your own stick person style! Students will explore their own Artist identity with the freedom to explore different mediums, styles, and techniques while also being challenged to build their skills and discover what inspires them and why they would want to create art.

## Drama 12

Drama 12 focuses on the development of oral presentation, self-confidence and acting skills. Students will be exposed to the vocabulary of the professional theatre as they learn to perform through structured exercises on stage. The mechanics of script writing and stagecraft will also

be explored. Students will learn to develop a character fully while participating in a full-length, staged production at the end of the semester.