

# Enrichment Mini Course

## Course Description 2017

Hosted at Memorial University of Newfoundland (MUN), College of the North Atlantic (CNA), Marine Institute (MI) and District Conference Centre (DCC).

MINI COURSE PROGRAM					
#	Course Title	Instructor	Date	Site	Description
1.	<b>Trumpets, lasers, rainbows and Why the Sky is Blue!!</b>	Dr. Michael Morrow, Rick Goulding and Ania Harlick	April 25 & 26, 2017	MUN	Why does a trumpet sound different from a truck? Where do the colors in a rainbow come from? How does a laser differ from a flashlight and what is a hologram anyway? In this mini-course, we will talk about sound waves and light waves, do experiments with lasers, lenses and speakers, measure the speed of sound, and learn to look at the sky in a different way. <b>Maximum 12 students</b>
2.	<b>Introduction to Brain Science and Structure</b>	Lisa Fang & Victoria Linehan	May 23 & 24, 2017	MUN	This two-day course is intended to give students a look into brain structure and function. It will involve a combination of interactive lectures and hands-on labs, including looking at real brains and recording your own brain activity using EEG. <b><u>Please bring your own lunch, pens or pencils, and a binder or duotang folder. Students should also wear clothing that fully covers their legs, and closed shoes.</u></b> <b>Maximum 12 Students</b>
3.	<b>Introduction to Animal Psychology</b>	Linda Gaborko	April 25 & 26, 2017	MUN	Students will be introduced to the methods used by Psychologists to gain knowledge from animal research for the benefit of both humans and the animals themselves. This research is carried out in the laboratory and in the field, so if weather permits, we will venture outside to observe waterfowl behaviour in the local duck pond; <b><u>please bring appropriate outdoor gear (coat, hat, gloves, boots).</u></b> <b>Maximum 8 students</b>
4.	<b>A Taste for Chemistry</b>	Dr. Christopher Flinn	April 26 & 27, 2017	MUN	The first day students will make 3 or 4 highly colored chemical compounds and collect their crystals. The second day will be an

					introduction to some organic chemistry techniques including chromatography and distillation concluding with a special chemistry magic show! For safety lab coats and goggles will be provided however students need to have their legs and feet fully covered, we suggest jeans and sneakers. <b>Maximum 15 students</b>
5.	<b>PSI: Forensic Physics</b>	Dr. G. Todd Andrews	May 16 & 17, 2017	MUN	An introduction to methods of forensic physics. Possible topics include (i) application of microscopy, materials physics, and optical techniques for examination of physical evidence, (ii) use of kinematics and dynamics in traffic accident investigation and ballistics, and (iii) audio analysis for speaker identification. Emphasis will be on hands-on activities, including case studies. <b>Maximum 12 Students</b>
6.	<b>PSI: Forensic Physics</b>	Dr. G. Todd Andrews	May 18 & 19, 2017	MUN	An introduction to methods of forensic physics. Possible topics include (i) application of microscopy, materials physics, and optical techniques for examination of physical evidence, (ii) use of kinematics and dynamics in traffic accident investigation and ballistics, and (iii) audio analysis for speaker identification. Emphasis will be on hands-on activities, including case studies. <b>Maximum 12 Students</b>
7.	<b>Aquaculture - Sustainable Food Production</b>	Cyr Couturier & Tracy Granter	May 17 & 18, 2017	Marine Institute	Aquaculture is the fastest growing sustainable food production sector in the world. Students will be exposed to the exciting world of sustainable aquaculture through a mixture of practical seminars, labs and tours of the Fisheries and Marine Institute & the Ocean Sciences Centre in Logy Bay. Students will handle a variety of fish and shellfish species in our aquaculture facilities and become familiar with the various research, development and production activities taking place in the province, Canada and across the globe! <b>Maximum 12 students</b>
8.	<b>Earth's Story</b>	Sharon Deemer	April 27 & 28, 2017	MUN	Geoscientists have unraveled many clues in the rock record to learn Earth's amazing story. From its beginning in the construction of the solar system Earth has experienced many dramatic changes. In this short course we will talk about some of the highlights of the events that have made Earth into a beautiful planet able to support abundant life. Earth hasn't always been the friendly home we enjoy today. During the course students will have an opportunity to look at significant rock samples such as the oldest rock on the planet, a meteorite sample under a microscope, and stromatolites and banded iron formation which tell us about the earliest life in microbial form.

					Some fossils and reproductions of significant fossils will also be brought out to show students the kind of material paleontologists use to understand the evolution of life. <b>Maximum 15 students</b>
9.	<b>Earth's Story</b>	Sharon Deemer	May 4 & 5, 2017	MUN	Geoscientists have unraveled many clues in the rock record to learn Earth's amazing story. From its beginning in the construction of the solar system Earth has experienced many dramatic changes. In this short course we will talk about some of the highlights of the events that have made Earth into a beautiful planet able to support abundant life. Earth hasn't always been the friendly home we enjoy today. During the course students will have an opportunity to look at significant rock samples such as the oldest rock on the planet, a meteorite sample under a microscope, and stromatolites and banded iron formation which tell us about the earliest life in microbial form. Some fossils and reproductions of significant fossils will also be brought out to show students the kind of material paleontologists use to understand the evolution of life. <b>Maximum 15 students</b>
10.	<b>Introduction to Food Systems</b>	Jennifer Wood	May 17 & 18, 2017	MUN	The course will introduce students to the concept of the food system using the 'Nourish' curriculum ( <a href="http://www.nourishlife.org/teach/curriculum/">http://www.nourishlife.org/teach/curriculum/</a> ) which includes forming an understanding of the intricate web of relationships and processes that combine to bring our food to the table. We will highlight features of the environmental, health, political and economic components of the NL food system and engage in hands-on activities, <b>such as planting food plants, sprouting seeds and tasting delicious samples</b> . The sessions will be interactive, inspirational and educational. <b>Maximum 24 Students</b>
11.	<b>Leadership for Change</b>	Katie Noseworthy and Nicole Helwing	May 29 – 31, 2017 G9  May 17 – 19, 2017 G8	MUN	During this interactive course, students will learn what it means to be leaders in their communities. Through a community mapping exercise, students will identify the assets and needs of their communities and how they can empower positive social change from within. Topics that will be explored include: Social justice, rights and responsibilities, diversity-awareness, self-awareness, equity, environmental consciousness, social change, social enterprise, and systems thinking. Students will leave the course with knowledge and tools to promote social justice and change in their communities. Please note: students are asked to wear comfortable footwear/clothing appropriate for walking and interactive

					activities. <b>Grade 9 Students only</b> <b>Maximum 15 Students</b>
12.	<b>Marine Biology</b>	Captain Jan Negrijn  Coastal Connections	May 23 & 24, 2017	Coastal Connections Site Holyrood	Come and experience the world of Marine Biology through a combination of boat cruises and beach hikes. You will: Learn how to steer a boat and do some basic navigation Use a plankton net and microscopes to investigate the smallest plants and animals in the ocean Haul up crab and lobster pots Fly a remotely operated vehicle ROV to explore life under the waves Explore the shallow shoreline with waders and underwater looking glasses and much more, All in an action packed two days of fun and discovery <b>.Maximum 22 Students</b>
13.	<b>Marine Biology</b>	Captain Jan Negrijn  Coastal Connections	May 26 & 29, 2017	Coastal Connections Site Holyrood	Come and experience the world of Marine Biology through a combination of boat cruises and beach hikes. You will: Learn how to steer a boat and do some basic navigation Use a plankton net and microscopes to investigate the smallest plants and animals in the ocean Haul up crab and lobster pots Fly a remotely operated vehicle ROV to explore life under the waves Explore the shallow shoreline with waders and underwater looking glasses and much more, All in an action packed two days of fun and discovery <b>.Maximum 22 Students</b>
14.	<b>Marine Biology</b>	Captain Jan Negrijn  Coastal Connections	May 31 & June 1, 2017	Coastal Connections Site Holyrood	Come and experience the world of Marine Biology through a combination of boat cruises and beach hikes. You will: Learn how to steer a boat and do some basic navigation Use a plankton net and microscopes to investigate the smallest plants and animals in the ocean Haul up crab and lobster pots Fly a remotely operated vehicle ROV to explore life under the waves Explore the shallow shoreline with waders and underwater looking glasses and much more, All in an action packed two days of fun and discovery <b>.Maximum 22 Students</b>

15.	<b>“Land Und Leute”: Introducing German language, landscape, politics and popular culture</b>	Dr.Isabell Woelfel	April 24 & 25, 2017	MUN	The course will offer a basic introduction to German language, German-speaking lands and popular culture. Students will learn essential German phrases, expressions and vocabulary, study about German-speaking countries in Europe and explore German popular culture through film clips, art and popular music. The course will also introduce the political system, economic and cultural relationships to Canada and discuss important German representatives from politics, history, art and modern entertainment. By the end of the course, students will have a better understanding of Germany and other German-speaking countries. <b>Maximum 12 students</b>
16.	<b>Spanish Language and Latin Culture</b>	Lynette Lawlor	April 24 & 25, 2017	MUN	This course will introduce you and highlight Spanish Language and Culture. You will cover basic conversation skills and is mainly oral in nature. You will also cover the “Spanish World Geography”, foods, holidays, celebrations, dance and music. The music component will be both traditional and modern (contemporary). This is a hands on interactive and exciting course. <b>Maximum 12 Students</b>
17.	<b>Spanish Language and Latin Culture</b>	Lynette Lawlor	April 27 & 28, 2017	MUN	This course will introduce you and highlight Spanish Language and Culture. You will cover basic conversation skills and is mainly oral in nature. You will also cover the “Spanish World Geography”, foods, holidays, celebrations, dance and music. The music component will be both traditional and modern (contemporary). This is a hands on interactive and exciting course. <b>Maximum 12 Students</b>
18.	<b>Spanish Language and Latin Culture</b>	Lynette Lawlor	May 1 & 2, 2017	MUN	This course will introduce you and highlight Spanish Language and Culture. You will cover basic conversation skills and is mainly oral in nature. You will also cover the “Spanish World Geography”, foods, holidays, celebrations, dance and music. The music component will be both traditional and modern (contemporary). This is a hands on interactive and exciting course. <b>Maximum 12 Students</b>
19.	<b>Spanish Language and Latin Culture</b>	Lynette Lawlor	May 4 & 5, 2017	MUN	This course will introduce you and highlight Spanish Language and Culture. You will cover basic conversation skills and is mainly oral in nature. You will also cover the “Spanish World Geography”, foods, holidays, celebrations, dance and music. The music component will be both traditional and modern (contemporary). This is a hands on interactive and exciting course. <b>Maximum 12 Students</b>

20.	<b>Two Days in Russia</b>	Dr. Marina Grineva	May 15 & 16, 2017	MUN	Discover another world in two days- learn to read Russian, acquire the basics about a “different” but very easy and logical foreign language, gain insights into a fascinating culture and intriguing but baffling history. This structured mini-course includes MUN students’ own videos, Russian movies, souvenirs, music, food, pen pal addresses, internet links. Consider the benefits of knowing Russian if you want to be a diplomat, journalist, scientist, or work in international business. Because of the changes since “perestroika”, Russia, the largest country in the world is more open to you than ever! <b>Maximum 12 students</b>
21.	<b>Two Days in Russia</b>	Dr. Marina Grineva	May 29 & 30, 2017	MUN	Discover another world in two days- learn to read Russian, acquire the basics about a “different” but very easy and logical foreign language, gain insights into a fascinating culture and intriguing but baffling history. This structured mini-course includes MUN students’ own videos, Russian movies, souvenirs, music, food, pen pal addresses, internet links. Consider the benefits of knowing Russian if you want to be a diplomat, journalist, scientist, or work in international business. Because of the changes since “perestroika”, Russia, the largest country in the world is more open to you than ever! <b>Maximum 12 students</b>
22.	<b>Japanese Language and Culture</b>	Nami Ohara	April 27 & 28, 2017	MUN	This course is intended to give beginners a basic knowledge of understanding, communication and culture of Japan through a variety of activities. Course Objectives: (1) Learn basic Japanese using culturally oriented activities such as origami or cultural games. (2) Develop an ear for Japanese sounds and learn pronunciation basics. (3) Learn to read both Japanese syllabic letters ( <i>Hiragana</i> and <i>Katakana</i> ) (4) Understand and use common Japanese expressions. (5) Learn some basic <i>Kanji</i> characters <b>Maximum 12 students</b>
23.	<b>Japanese Language and Culture</b>	Nami Ohara	May 4 & 5, 2017	MUN	This course is intended to give beginners a basic knowledge of understanding, communication and culture of Japan through a variety of activities. Course Objectives: (1) Learn basic Japanese using culturally oriented activities such as origami or cultural games. (2) Develop an ear for Japanese sounds and learn pronunciation basics.

					<p>(3) Learn to read both Japanese syllabic letters (<i>Hiragana</i> and <i>Katakana</i>)</p> <p>(4) Understand and use common Japanese expressions.</p> <p>(5) Learn some basic <i>Kanji</i> characters</p> <p><b>Maximum 12 students</b></p>
24.	<b>Japanese Language and Culture</b>	Nami Ohara	May 11 & 12, 2017	MUN	<p>This course is intended to give beginners a basic knowledge of understanding, communication and culture of Japan through a variety of activities.</p> <p>Course Objectives:</p> <p>(1) Learn basic Japanese using culturally oriented activities such as origami or cultural games.</p> <p>(2) Develop an ear for Japanese sounds and learn pronunciation basics.</p> <p>(3) Learn to read both Japanese syllabic letters (<i>Hiragana</i> and <i>Katakana</i>)</p> <p>(4) Understand and use common Japanese expressions.</p> <p>(5) Learn some basic <i>Kanji</i> characters</p> <p><b>Maximum 12 students</b></p>
25.	<b>Japanese Language and Culture</b>	Nami Ohara	May 18 & 19, 2017	MUN	<p>This course is intended to give beginners a basic knowledge of understanding, communication and culture of Japan through a variety of activities.</p> <p>Course Objectives:</p> <p>(1) Learn basic Japanese using culturally oriented activities such as origami or cultural games.</p> <p>(2) Develop an ear for Japanese sounds and learn pronunciation basics.</p> <p>(3) Learn to read both Japanese syllabic letters (<i>Hiragana</i> and <i>Katakana</i>)</p> <p>(4) Understand and use common Japanese expressions.</p> <p>(5) Learn some basic <i>Kanji</i> characters</p> <p><b>Maximum 12 students</b></p>
26.	<b>Japanese Language and Culture</b>	Nami Ohara	May 25 & 26, 2017	MUN	<p>This course is intended to give beginners a basic knowledge of understanding, communication and culture of Japan through a variety of activities.</p> <p>Course Objectives:</p> <p>(1) Learn basic Japanese using culturally oriented activities such as origami or cultural games.</p> <p>(2) Develop an ear for Japanese sounds and learn pronunciation basics.</p> <p>(3) Learn to read both Japanese syllabic letters (<i>Hiragana</i> and <i>Katakana</i>)</p> <p>(4) Understand and use common Japanese expressions.</p> <p>(5) Learn some basic <i>Kanji</i> characters</p> <p><b>Maximum 12 students</b></p>
27.	<b>Japanese Language and Culture</b>	Nami Ohara	May 29 & 30,	MUN	<p>This course is intended to give beginners a basic knowledge of understanding,</p>

			2017		<p>communication and culture of Japan through a variety of activities.</p> <p>Course Objectives:</p> <p>(1) Learn basic Japanese using culturally oriented activities such as origami or cultural games.</p> <p>(2) Develop an ear for Japanese sounds and learn pronunciation basics.</p> <p>(3) Learn to read both Japanese syllabic letters (<i>Hiragana</i> and <i>Katakana</i>)</p> <p>(4) Understand and use common Japanese expressions.</p> <p>(5) Learn some basic <i>Kanji</i> characters</p> <p><b>Maximum 12 students</b></p>
28.	<p><b>Much Ado about Shakespeare</b></p> <p><b>Acting Course</b></p>	Dr. Carolyn Colbert	April 24 & 25, 2017	MUN	<p>"All the world's a stage." Fight duels, perform magic, or plan revenge. Learn about the Shakespearean theatre, "the wooden O," and find out if Shakespeare wore tights! Become an actor or a director for two days. Perform scenes from your choice of Shakespeare's plays and produce appropriate costumes and sets.</p> <p><b>Maximum 24 students</b></p>
29.	<p><b>Much Ado about Shakespeare</b></p> <p><b>Acting Course</b></p>	Dr. Carolyn Colbert	April 27 & 28, 2017	MUN	<p>"All the world's a stage." Fight duels, perform magic, or plan revenge. Learn about the Shakespearean theatre, "the wooden O," and find out if Shakespeare wore tights! Become an actor or a director for two days. Perform scenes from your choice of Shakespeare's plays and produce appropriate costumes and sets.</p> <p><b>Maximum 24 students</b></p>
30.	<p><b>Much Ado about Shakespeare</b></p> <p><b>Acting Course</b></p>	Dr. Carolyn Colbert	May 3 & 4, 2017	MUN	<p>"All the world's a stage." Fight duels, perform magic, or plan revenge. Learn about the Shakespearean theatre, "the wooden O," and find out if Shakespeare wore tights! Become an actor or a director for two days. Perform scenes from your choice of Shakespeare's plays and produce appropriate costumes and sets.</p> <p><b>Maximum 24 students</b></p>
31.	<p><b>What is Human Nature?</b></p>	Dr. Peter Trnka	May 1 & 2, 2017	MUN	<p>This course will introduce you to the methods and subjects of philosophy. What is a human being? What is a good life for a human being? What is freedom? What is happiness? We shall examine questions like this through readings, videos, and discussion. The aim of the course is to show you how to express and criticize your own and others beliefs about nature, society, and technology.</p> <p><b>Maximum 12 students</b></p>
32.	<p><b>The Holocaust</b></p>	Dr. Edita Bosák	May 11 & 12, 2017	MUN	<p>Why were the Jews, Gypsies and homosexuals singled out for "special treatment" (annihilation) in the German Reich during World War Two?</p> <p>This course is intended to give</p>

					students an understanding of who the victims were, where they came from and why they were considered the enemy. The subject matter is treated with sensitivity and reverence through the media of lectures, discussions, films and demonstrations. <b>Maximum 12 students</b>
33.	<b>The Holocaust</b>	Dr. Edita Bosák	May 15 & 16, 2016	MUN	Why were the Jews, Gypsies and homosexuals singled out for “special treatment” (annihilation) in the German Reich during World War Two? This course is intended to give students an understanding of who the victims were, where they came from and why they were considered the enemy. The subject matter is treated with sensitivity and reverence through the media of lectures, discussions, films and demonstrations. <b>Maximum 12 students</b>
34.	<b>The Holocaust</b>	Dr. Edita Bosák	May 2 & 3, 2017	MUN	Why were the Jews, Gypsies and homosexuals singled out for “special treatment” (annihilation) in the German Reich during World War Two? This course is intended to give students an understanding of who the victims were, where they came from and why they were considered the enemy. The subject matter is treated with sensitivity and reverence through the media of lectures, discussions, films and demonstrations. <b>Maximum 12 students</b>
35.	<b>The Holocaust</b>	Dr. Edita Bosák	May 4 & 5, 2017	MUN	Why were the Jews, Gypsies and homosexuals singled out for “special treatment” (annihilation) in the German Reich during World War Two? This course is intended to give students an understanding of who the victims were, where they came from and why they were considered the enemy. The subject matter is treated with sensitivity and reverence through the media of lectures, discussions, films and demonstrations. <b>Maximum 12 students</b>
36.	<b>“The Roma, aka Gypsies”</b>	Dr. Edita Bosák	May 9 & 10, 2017	MUN	Who are these people, where do they come from and why does society boycott them whenever possible? The aim of the two day course is to introduce students to the history and culture of the Roma, and to explore the prejudice and mistreatment that is so much a part of the Roma’s tragic history. Films will be seen, music heard, conversations and pictures presented. <b>Maximum 12 Students</b>

37.	<b>Male and Female Basketball Camp</b>	Coach Peter Benoit	April 27 & 28, 2017	MUN	Come develop your basketball skills. Develop the proper jump shot, lay up and foul shot. Hone your defensive skills. Enjoy scrimmages at the MUN gym and the new Field House gym. Instructors to include members of the Sea Hawk Men's and Women's Basketball Teams. <b>Maximum 75 students only</b>
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39.	<b>Let's Talk Health</b>	Drs. Erin McGowan, Erin Cameron and Richard Buote, Ryan Collins	April 27 & 28, 2017	MUN	Through hands-on experiential learning (learn through doing) students will explore the concept of health and well-being. Specifically, students will learn about healthy active living through various health topics (e.g., eating well, physical activity, body image, self-esteem, mindfulness, media literacy, etc.). <b>Students need to wear active wear and sneakers.</b> <b>Maximum 15 Students</b>
40.	<b>Engineering Design</b>	Mr. Raj Jani	April 24 & 25, 2017	CNA Prince Philip Dr.	<b>Safety glasses are mandatory.</b> How are machines made??? Experience the engineering design process. First you will identify a need, define the problem and set your design objectives. Then you will brainstorm for solutions and choose your 'best' option. Next you will develop sketches for your design, generate a 3-D computer model, and get ready to plan your production! What materials will you need? What equipment? What skills? Finally you will fabricate your components using a variety of advanced technology systems; computer controlled machining centres, robotics and laser cutting systems. And there you have it, just what you needed! <b>Maximum 12 students</b>
41.	<b>Engineering Design</b>	Mr. Raj Jani	April 26 & 27, 2017	CNA Prince Philip Dr.	<b>Safety glasses are mandatory.</b> How are machines made??? Experience the engineering design process. First you will identify a need, define the problem and set your design objectives. Then you will brainstorm for solutions and choose your 'best' option. Next you will develop sketches for your design, generate a 3-D computer model, and get ready to plan your production! What materials will you need? What equipment? What skills? Finally you will fabricate your components using a variety of advanced technology systems; computer

					controlled machining centres, robotics and laser cutting systems. And there you have it, just what you needed! <b>Maximum 12 students</b>
42.	<b>Robot Design</b>	Jordan Smith	May 17 & 18, 2017	MUN	Interested in mechanisms or electronics? Ever wonder how robots see and plan? This course will challenge students in the field of robotics as they create and program their own real robot from basic components. Students will develop practical skills in Engineering, Computer Science and Art which will help them continue on to start their own creative projects. Experience with Lego Mindstorms or similar is recommended but not required. <b>Try code.org if you're new!</b> <b>Maximum 20 students</b>
43.	<b>Robot control using Microcontrollers</b>	Howard Guy	April 26 & 27, 2017	CNA Ridge Road Campus	Are you into robots building things and computers? The first part of the course will have you soldering a mini light sensor car. The second part will have you become familiar with microcontrollers and servo control. The final section of the mini course will be hooking a netcam to the robot and getting it working through a website. <b>Maximum 16 Grade 8 &amp; 9 Students Only</b>
44.	<b>Computer programming from 0 to infinity</b>	Theodore Norvell	April 25 & 26, 2017	MUN	Computer programming is the art of turning ideas into plans. These courses introduce the basic concepts of modern computer programming. By the end of the course, students will be able to create interactive computer programs such as simple video games, animations, and automated art generators. <b>Maximum 24 students. Grade 8 &amp; 9 Students Only</b>
45.	<b>Introduction to Computer Programming 0 to infinity</b>	Theodore Norvell	April 27 & 28, 2017	MUN	Computer programming is the art of turning ideas into plans. These courses introduce the basic concepts of modern computer programming. By the end of the course, students will be able to create interactive computer programs such as simple video games, animations, and automated art generators. <b>Maximum 24 students. Grade 8 &amp; 9 Students Only</b>
46.	<b>Creating Virtual worlds with Alice</b>	Radha Gupta	May 23 & 24, 2017	MUN	Alice is a simple 3D interactive animation environment. In this course the students will write simple stories, create animated virtual worlds, populate their virtual worlds with characters and objects they desire, and see their stories come to life. That is, the students will learn to become the scriptwriters and directors of their own stories. Script writing, creativity and visualization

					<p>play a greater role in students' learning, and these elements are supported by Alice's environment. Thus, this course should be of great interest to all students; girls or boys, who are creative and have no prior programming experience as well as to those girls and boys who are looking for a deeper understanding of the basic programming concepts.</p> <p><b>Maximum 12 students</b></p>
47.	<b>Creating Virtual worlds with Alice</b>	Radha Gupta	May 25 & 26, 2017	MUN	<p>Alice is a simple 3D interactive animation environment. In this course the students will write simple stories, create animated virtual worlds, populate their virtual worlds with characters and objects they desire, and see their stories come to life. That is, the students will learn to become the scriptwriters and directors of their own stories.</p> <p>Script writing, creativity and visualization play a greater role in students' learning, and these elements are supported by Alice's environment. Thus, this course should be of great interest to all students; girls or boys, who are creative and have no prior programming experience as well as to those girls and boys who are looking for a deeper understanding of the basic programming concepts.</p> <p><b>Maximum 12 students</b></p>
48.	<b>Print and Dye</b>	Gina-Rae Hoyles	April 27 & 28, 2017	CAN Anna Templeton Building	<p><b>A fun filled two days is planned for the textile fanatics. This year we will offer a screen printing session, which will teach the students how to design, create and print a silkscreen. We will use this silkscreen to print onto a T shirt, which they can bring themselves. We will also spend some time learning about all over printing and colour families and will create a number of print and colour samples. We will then print our images onto a piece of fabric, that we will dye accordingly. Be advised, dyes and inks are permanent and students should dress in old clothes.</b></p> <p><b>Maximum 12 students</b></p>
49.	<b>Print and Dye</b>	Gina-Rae Hoyles	May 4 & 5, 2017	CAN Anna Templeton Building	<p><b>A fun filled two days is planned for the textile fanatics. This year we will offer a screen printing session, which will teach the students how to design, create and print a silkscreen. We will use this silkscreen to print onto a T shirt, which they can bring themselves. We will also spend some time learning about all over printing and colour families and will create a number of print and colour samples. We will then print our images onto a piece of fabric, that we will dye accordingly. Be advised, dyes and inks are permanent and students should dress in old clothes.</b></p> <p><b>Maximum 12 students</b></p>

50.	<b>Print and Dye</b>	Gina-Rae Hoyles	May 11 & 12, 2017	CAN Anna Templeton Building	A fun filled two days is planned for the textile fanatics. This year we will offer a screen printing session, which will teach the students how to design, create and print a silkscreen. We will use this silkscreen to print onto a T shirt, which they can bring themselves. We will also spend some time learning about all over printing and colour families and will create a number of print and colour samples. We will then print our images onto a piece of fabric, that we will dye accordingly. Be advised, dyes and inks are permanent and students should dress in old clothes. <b>Maximum 12 students</b>
51.	<b>Sewing Basics</b>	Gina-Rae Hoyles	May 18 & 19, 2017	CAN Anna Templeton Building	A fun packed two days is planned for our future sewists. This year we will offer a sewing session, in which the students will sew their own tote bag. We will be using a hand dyed piece of fabric to create our bag, which the students will dye themselves on the first day, then learn all the basic of a sewing machine, including how to thread the machine, change stitch type, length and width, and how to complete their project with an overlock stitch. Be advised, dyes are permanent and students should wear old clothes for the first day. <b>Maximum 12 students</b>
52.	<b>Sewing Basics</b>	Gina-Rae Hoyles	May 25 & 26, 2017	CAN Anna Templeton Building	A fun packed two days is planned for our future sewists. This year we will offer a sewing session, in which the students will sew their own tote bag. We will be using a hand dyed piece of fabric to create our bag, which the students will dye themselves on the first day, then learn all the basic of a sewing machine, including how to thread the machine, change stitch type, length and width, and how to complete their project with an overlock stitch. Be advised, dyes are permanent and students should wear old clothes for the first day. <b>Maximum 12 students</b>
53.	<b>Introduction to Printmaking</b>	Lynn Panting	April 26 & 27, 2017	St. Michael's Print shop	Printmaking is one of the oldest, and most democratic art practices. In this introduction to printmaking students will get an overview of printmaking concepts and a sampling of printmaking techniques including: monotype, linocut, and etching. A combination of demonstrations and hands on printmaking will offer insight into the printing press and the wide variety of techniques it can be used for. <b>Maximum 12 Students</b>
54.	<b>Cartooning</b>	Catherine Chafe	May 11 & 12, 2017	District Conference Centre	WHOOSH! Jump into this jam-packed cartoon adventure! From drawing faces and figures, to creating storyboards, dialogue and word balloons-- BOING!!-- this course is

					your springboard to getting your ideas out of your head and into your very own greeting cards, comic strips or graphic novels. <b>Maximum 12 Students</b>
55.	<b>Shadow Puppets</b>	Catherine Chafe	May 18 & 19, 2017	District Conference Centre	Create magical worlds with the ancient art of shadow puppetry! Learn puppet and scenery design, how to act out and manipulate your creations, voice, lighting, sound, script-writing and shadow-screen construction. Put it all into practice by producing and performing your own original group plays. <b>Maximum 12 Students</b>
56.	<b>Cartooning</b>	Catherine Chafe	May 9 & 10, 2017	District Conference Centre	WHOOSH! Jump into this jam-packed cartoon adventure! From drawing faces and figures, to creating storyboards, dialogue and word balloons-- BOING!!-- this course is your springboard to getting your ideas out of your head and into your very own greeting cards, comic strips or graphic novels. <b>Maximum 12 Students</b>
57.	<b>Shadow Puppets</b>	Catherine Chafe	May 16 & 17, 2017	District Conference Centre	Create magical worlds with the ancient art of shadow puppetry! Learn puppet and scenery design, how to act out and manipulate your creations, voice, lighting, sound, script-writing and shadow-screen construction. Put it all into practice by producing and performing your own original group plays. <b>Maximum 12 Students</b>