

# Enrichment Mini Course

## Course Description 2018

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>Planets, stars, and stuff in the sky</b>	Dr. Michael Morrow and Rick Goulding	April 26 & 27, 2018	MUN	This course will talk about some of the things that astronomers can learn about planets, stars, and galaxies using equipment like telescopes and spectroscopes.  <b>Maximum 12 students</b>
2.	<b>Improving Brain Health Through Research</b>	Dr. Katie Wadden	May 8 – 10, 2018	MUN	This course will provide students with an overview of how research is used to improve the lives of individuals living with neurological diseases. The first objective will be to introduce students to basic concepts surrounding functions of the brain. The second objective will be to familiarize students with neurological tools used in our laboratory to assess brain function. In a laboratory setting, students will watch demonstrations, and perform basic tests to assess brain function. The third objective will be to provide students with knowledge of current research projects performed in the Recovery and Performance Lab. We will discuss aerobic exercise as an intervention to improve the health of individuals living with stroke and MS. Students will watch an exercise test and discuss the importance of cardiovascular health on brain function. The fourth objective will be for students to create and develop their own research question to improve brain health. <b>Maximum 15 students</b>
3.	<b>Introduction to Brain Science and Structure</b>	Lisa Fang & Stephanie Blandford	April 26 & 27, 2018	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 plastinated brain specimens and recording your own brain activity using EEG. <b>Please bring your own lunch, pens or pencils, and a binder or duotang folder.</b>

					<p><b>Students should also wear clothing that fully covers their legs, and closed shoes.</b></p> <p><b>Maximum 24 Students</b></p>
4.	<b>Introduction to Animal Psychology</b>	Linda Gaborko	April 24 & 25, 2018	MUN	<p>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></p> <p><b>Maximum 8 students</b></p>
5.	<b>A Taste for Chemistry</b>	Dr. Christopher Flinn	April 25 & 26, 2018	MUN	<p>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.</p> <p><b>Maximum 15 students</b></p>
6.	<b>PSI: Forensic Physics</b>	Dr. G. Todd Andrews	May 15 & 16, 2018	MUN	<p>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.</p> <p><b>Maximum 12 Students</b></p>
7.	<b>PSI: Forensic Physics</b>	Dr. G. Todd Andrews	May 17 & 18, 2018	MUN	<p>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.</p> <p><b>Maximum 12 Students</b></p>
8.	<b>The Fascinating World of Plants</b>	Maria Esther Nieto Blazquez	May 17 & 18, 2018	MUN	<p>This course aims to get you interested about the fascinating world of plants!! Understand the many practical applications of plants (food, medicines, shelter, dyes...) and why they are so important for us. Did you know plants originated in the water and colonized land millions of years ago? Did you know plants breath and sweat like us? Did you know that potatoes are native to South America? Did you know that coconuts dispersed by water and are able to cross oceans? We will answer these questions and many more. We will identify different groups of plants found in Newfoundland</p>

					(so you can show off next time you are in the woods with your family or friends!). Different modes of plant dispersal and plant adaptations to extreme/harsh environments (e.g. deserts, freezing cold, chemicals) will be explored. We will finish the course by making a terrarium that you can take home. All plant and lab materials will be provided, just bring a mason jar for your own terrarium!! <b>Maximum 15 Students</b>
9.	<b>Aquaculture - Sustainable Food Production</b>	Cyr Couturier & Tracy Granter	May 24 & 25, 2018	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 15 students</b>
10.	<b>Earth's Story</b>	Sharon Deemer	April 24 & 25, 2018	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>
11.	<b>Coastal Sciences and Climate Impact</b>	Sheridan Thompson	May 29 & 30, 2018	MUN	This two-day course integrates classroom discussion and experimentation followed by a field excursion down to Freshwater Bay to observe watershed and coastal dynamics. We will discuss the formation of coastlines through deep (geological) time by observing the relevance of fossils (paleontology), rock characteristics (lithology), as well as the environmental processes that contribute to the geomorphology of coasts such as tectonics, glaciation, frost action, wave energy, storms systems as well as human impact. Students will be given time to reflect on their observations through creative writing and/or art

					and to share their personal experiences with Nature, particularly that of Newfoundland coasts. <b>(Appropriate Outdoor Clothing Mandatory)</b> <b>Maximum 15 students</b>
12.	<b>Wie geht's? Introduction to Germany and German speaking-lands.</b>	Dr.Isabell Woelfel	May 7 & 8, 2018	MUN	The course will give an Overview on Germany and German speaking lands. Students will learn some basic German words and common German phrases. The course will also introduce students to German cities, politics and nature, and will focus particularly on German teen life and youth culture, such as popular music, films, books and the school system in Germany. <b>Maximum 12 students</b>
13.	<b>Leadership for Change</b>	Katie Noseworthy and Nicole Helwing	April 25 & 26, 2018	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>Maximum 15 Students</b>
14.	<b>Social Science Research Methods</b>	Olivia Vila	May 14 – 16, 2018	MUN	Are you curious about what social scientist (psychologists, sociologists, geographers, anthropologists, etc.) do? Come learn about the different types of social scientists, what kinds of questions they ask, and the tools they use to answer their questions (surveys, interviews, experiments, and more!). You will get the chance to conduct your own social science research project—which means getting out of the classroom and doing a social experiment! You will gain knowledge and skills that are useful <i>now</i> and will help you as you start to think about what you may want to do after high school. <b>Maximum 15 Students</b>
15.	<b>Exploring the Future-land</b>	Vaishal Shah	May 14 & 15, 2018	MUN	Students will be taught about various facets of future. They will be introduced to new technologies. They will be educated regarding which technologies will become extinct and which new technologies will enter. Further, they will be educated regarding how future technologies will

					<p>revitalize home, medical sector, transportation, space technology, etc. Students will be taught regarding existing companies who are working on future technologies and what they are doing. Special emphasis on how education and student life will be in future. Also, there will be special emphasis on how ecosystems like water, air, forests, etc will be in future and our responsibility in present to preserve them. It will also involve games, presentations, and videos.</p> <p><b>Maximum 24 students</b></p>
16.	<b>Everyday Economics</b>	Troy Osmond	May 23 & 24, 2018	MUN	<p>Economics? No, it's not all about dull, suited up "fat cats", finance and banking. We'll consider questions like: What does the price of a Big Mac across the world tell us about the economy? Why do we pay more for diamonds than water (when diamonds won't keep you alive in the desert)? Why would a company call bad breath something else? This course will help you understand how the world works - exploring the idea that money makes the world go round. Using real world examples, hands on learning and active discussion see how economic thinking can help us make sense of the world and help us make better choices and achieve our goals.</p> <p><b>Maximum 15 Students (Grade 9 Students Only)</b></p>
17.	<b>Wie geht's? Introduction to Germany and German speaking-lands.</b>	Dr.Isabell Woelfel	May 10 & 11, 2018	MUN	<p>The course will give an Overview on Germany and German speaking lands. Students will learn some basic German words and common German phrases. The course will also introduce students to German cities, politics and nature, and will focus particularly on German teen life and youth culture, such as popular music, films, books and the school system in Germany.</p> <p><b>Maximum 12 students</b></p>
18.	<b>Spanish Language and Latin Culture</b>	Lynette Lawlor	May 1 & 2, 2018	MUN	<p>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.</p> <p><b>Maximum 12 Students</b></p>
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21.	<b>Two Days in Russia</b>	Dr. Marina Grineva	April 24 & 25, 2018	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>
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23.	<b>Two Days in Russia</b>	Dr. Marina Grineva	May 2&3, 2018	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>

24.	<b>Japanese Language and Culture</b>	Nami Ohara	April 26 & 27, 2018	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 16 students</b></p>
25.	<b>Japanese Language and Culture</b>	Nami Ohara	May 10 & 11, 2018	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 16 students</b></p>
26.	<b>Japanese Calligraphy &amp; Origami</b>	Nami Ohara	May 24 & 25, 2018	MUN	<p>This exciting hands on course is intended to facilitate an appreciation of Japanese culture through the practice of Japanese calligraphy (書道 - <i>Shodo</i>) and Origami (折り紙 - <i>Origami</i>).</p> <p>Course Objectives:</p> <p>(1) Japanese calligraphy Learn the ancient brush technique of Japanese artistic writing. Students will learn how to use the techniques and tools of this beautiful writing system to write personal names as well as some common Japanese words (e.g., 愛 love, 楓 Maple, 春 spring, 海 sea, 空 sky). Absolutely no previous drawing experience or skill required.</p> <p>(2) Origami Students learn the history of the Japanese paper folding art known as origami. Participants are instructed step by step to create unique and original origami figures</p> <p><b>Maximum 16 students</b></p>
27.	<b>Much Ado about Shakespeare</b>	Dr. Carolyn Colbert	April 23 & 24, 2018	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</p>

	<b>Acting Course</b>				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. <b>Maximum 24 students</b>
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29.	<b>Much Ado about Shakespeare</b>  <b>Acting Course</b>	Dr. Carolyn Colbert	May 2 & 3, 2018	MUN	"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. <b>Maximum 24 students</b>
30.	<b>What is Human Nature?</b>	Dr. Peter Trnka	May 1 & 2, 2018	MUN	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. <b>Maximum 12 students</b>
31.	<b>The Holocaust</b>	Dr. Edita Bosák	April 23 & 24, 2018	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>
32.	<b>The Holocaust</b>	Dr. Edita Bosák	April 26 & 27, 2018	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>
33.	<b>The Holocaust</b>	Dr. Edita Bosák	May 1 & 2, 2018	MUN	Why were the Jews, Gypsies and homosexuals singled out for "special treatment" (annihilation) in the German Reich during World War Two?

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34.	<b>The Holocaust</b>	Dr. Edita Bosák	May 3 & 4, 2018	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 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.</p> <p><b>Maximum 12 students</b></p>
35.	<b>“The Roma, aka Gypsies”</b>	Dr. Edita Bosák	May 17 & 18, 2018	MUN	<p>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.</p> <p><b>Maximum 12 Students</b></p>
36.	<b>Male and Female Basketball Camp</b>	Coach Peter Benoite	April 30 & May 1, 2018	MUN	<p>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.</p> <p><b>Maximum 75 students only</b></p>
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38.	<b>Architectural Technology and Design</b>	Dawn Greening	April 26 & 27, 2018	CNA – Ridge Road Campus	<p>Would you like to learn how to create 3D models? In this exciting and interactive 2 day course, students will explore two different 3D modelling software; Revit Architecture and HomeStyler. Students will be introduced to the fundamentals of construction and generate simple residential models. Students will also be introduced to presentation drawings and learn to create photorealistic rendered images and walkthroughs. On the design side students will explore space layout problems and propose design solutions using a 3D environment as well as generate</p>

					designs based on theme to meet a fictional client's needs. <b>Maximum 12 Students</b>
39.	<b>Engineering Design</b>	Mr. Raj Jani	May 2 & 3, 2018	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>
40.	<b>Robot Design</b>	Jordan Smith	May 14 & 15, 2018	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>
41.	<b>Robot control using Microcontrollers</b>	Howard Guy	May 2 & 3, 2018	CNA - Ridge Road Campus	Are you into robots and building electronic projects? The first part of the course will have you manufacturing and soldering a sound activated mini car. The second part will have you become familiar with microcontrollers to control a robot arm. <b>Maximum 16 Grade 8 &amp; 9 Students Only</b>
42.	<b>Computer programming from 0 to infinity</b>	Theodore Norvell	April 23 & 24, 2018	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>
43.	<b>Introduction to Computer Programming 0 to infinity</b>	Theodore Norvell	April 25 & 26, 2018	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

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44.	<b>Geographic Information Systems(GIS) and Remote Sensing</b>	Arpik Hakobyan	May 23 & 24, 2018	MUN	Creating and working with electronic maps. Displaying and working with satellite images. Combining maps and satellite images together. Analyzing the spatial information. <b>Maximum 24 students</b>
45.	<b>Print and Dye</b>	Gina-Rae Hoyles	May 3 & 4, 2018	CNA 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>
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48.	<b>Sewing Basics</b>	Gina-Rae Hoyles	May 24 & 25, 2018	CNA 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

					<p>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.</p> <p><b>Maximum 12 students</b></p>
49.	<b>Sewing Basics</b>	Gina-Rae Hoyles	May 31 & June 1, 2018	CNA Anna Templeton Building	<p>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.</p> <p><b>Maximum 12 students</b></p>
50.	<b>Real Live Sketching</b>	Catherine Chafe	May 10 & 11, 2018	District Conference Centre - Strawberry Marsh Rd.	<p>Drawing the people, places and things around you creates a bank of personal images that can be used as a souvenir and as reference material for future artwork. Bring to class a portable sketchbook and a few pens, pencils and markers. We'll be walking and sketching outside, so dress appropriately.</p> <p><b>Maximum 12 Students</b></p>
51.	<b>Real Live Sketching</b>	Catherine Chafe	May 17 & 18, 2018	District Conference Centre- Strawberry Marsh Rd.	<p>Drawing the people, places and things around you creates a bank of personal images that can be used as a souvenir and as reference material for future artwork. Bring to class a portable sketchbook and a few pens, pencils and markers. We'll be walking and sketching outside, so dress appropriately.</p> <p><b>Maximum 12 Students</b></p>
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