

# Enrichment Mini Course

## Course Description 2010

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

<b>MINI COURSE PROGRAM</b>					
#	Title	Instructor	Date	Site	Description
<b>Sciences</b>					
1.	<b>Trumpets, lasers, rainbows and Why the Sky is Blue!!</b>	Dr. Michael Morrow, Brad deYoung & Rick Goulding	April 29 & 30, 2010	MUN	<p>Why does a trumpet sound different from a truck? Where do the colours 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.</p> <p><b>Maximum 12 students</b></p>
2.	<b>A Study of Freshwater Invertebrates</b>	Dr. Helen Spencer	April 20 & 21, 2010	MUN	<p>Do you swim in a pond or swim-hole in summer? Well you are never alone! Discover the bugs you share the water with.</p> <p>In this course you will explore various freshwater habitats. You will take water samples and identify the creatures you find. You will learn how to use invertebrates as bio-indicators of water quality. (You may discover you don't want to swim at your favorite swim hole again!). You will learn about the life-cycle of some invertebrates and discover the roles they play in their environment.</p> <p>Freshwater habitats and creatures living there create huge worldwide issues. These will be introduced and explored through role-play.</p> <p><b>Maximum 12 students</b></p>

3.	<b>Introduction to Animal Psychology</b>	Linda Gaborka	April 27 & 28, 2010	MUN	How do rats find their way in a new environment? How do wolves know whether other group members want to play or fight? How do Siamese fighting fish know which rivals they can defeat? How do ducks choose and keep their mates? We will observe animals and do experiments to increase our understanding of these and other questions, as well as discuss some of the underlying brain mechanisms. There will be at least one field trip outside so students must come prepared with proper outdoor gear (coat, hat, gloves, boots). <b>Maximum 8 students</b>
4.	<b>A Taste for Chemistry</b>	Dr. Christopher Flynn, Marlene Hooper and Dave Stirling	May 4 & 5, 2010	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 chromatography, the king of separation science. Students will be involved in the extraction, separation and identification of plant pigments and the separation and identification of analgesics (pain killers) found in over-the-counter medications using thin-layer chromatography. <b>Maximum 12 students</b>
5.	<b>Aquaculture - Sustainable Food Production</b>	Cyr Couturier	May 28 & 29, 2010	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>
<b>Languages</b>					
6.	<b>Two Days in Russia</b>	Dr. J. Stuart Durrant	April 29 & 30, 2010	MUN	Discover another world in three 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>
7.	<b>Two Days in Russia</b>	Dr. J. Stuart Durrant	May 3 & 4, 2010	MUN	Discover another world in three 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>
8.	<b>German Language and Culture</b>	Marcella Rollmann	May 4 & 5, 2010	MUN	Students will learn to speak German in the classroom and use Memorial’s new state-of-the-art multi-media lab to reinforce language skills. Participants will also get acquainted with Germany through films and visit to German World Wide Webs sites, and correspond with German teens on the Internet. <b>Maximum 12 students</b>
9.	<b>German Language and Culture</b>	Marcella Rollmann	May 6 & 7, 2010	MUN	Students will learn to speak German in the classroom and use Memorial’s new state-of-the-art multi-media lab to reinforce language skills. Participants will also get acquainted with Germany through films and visit to German World Wide Webs sites, and correspond with German teens on the Internet. <b>Maximum 12 students</b>
10.	<b>Japanese Language and Culture</b>	Nami Ohara	April 21 & 22, 2010	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>
11.	<b>Japanese Language and</b>	Nami Ohara	April 28 & 29, 2010	MUN	This course is intended to give beginners a basic knowledge of understanding,

	Culture				<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>
12.	Japanese Language and Culture	Nami Ohara	May 5 & 6, 2010	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>
13.	Japanese Language and Culture	Nami Ohara	May 12 & 13, 2010	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>
<b>English</b>					
14.	<b>Write On, Shakespeare</b>	Carolyn Colbert	April 27 & 28, 2010	MUN	<p>Sharpen your quills and learn some of the writing techniques used by Shakespeare. Write your own sonnets and mini-play scripts with a modern twist. Produce a sports story about the deadly sword fight in "Hamlet." Report on the murders in "Macbeth." Transform Romeo and Juliet into love-lorn high school students whose parents just don't</p>

					understand them. Be creative---and don't worry about the "thee's" and "thou's." <b>Maximum 12 students</b>
15.	<b>Much Ado about Shakespeare</b>  <b>Acting Course</b>	Carolyn Colbert	May 4 & 5, 2010	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>
16.	<b>Much Ado about Shakespeare</b>  <b>Acting Course</b>	Carolyn Colbert	May 6 & 7, 2010	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>
17.	<b>Pop Your Culture: Exploring Gender in the Media</b>	Nancy Martin, Andrea Dawe, and Laura Nelson-Hamilton	May 10 - 12, 2010	MUN	We have organized an exciting and interactive workshop-based session exploring gender representation in the media. We will be looking at, and working with, magazines, films, TV clips and music. Students will be asked to engage with these images and texts in order to explore issues of body image, diversity, class, and consumption.  The following are some intended teaching methods/techniques: group work and discussion; creating of a college/zine; exploring both negative and positive representations of the male and female body; students will be asked to bring in any toys, products, or images, which will be used in a workshop that explores traditional or stereotypical gendered scripts.  The intent of this workshop is to encourage students to critically examine everyday images of gendered life in a fun and creative environment. <b>Maximum 15 students</b>
18.	<b>Introduction to Folklore</b>	Joy Fraser	May 10 & 11, 2010	MUN	This course will introduce students to the key characteristics and types of folklore, as well as exploring the related concepts of folk groups and traditions. Emphasis will be placed on cultural expressions that are most relevant to students' own experience, such as family folklore, celebrations, food traditions, games, jokes, nicknames and urban legends. The course will incorporate audiovisual materials, group discussions and practical

					activities, including an introduction to interviewing techniques for the purposes of collecting folklore. By the end of the course students will be equipped with the knowledge and skills needed to recognize and document the folklore in their own lives and in their families and communities. <b>Maximum 12 – 15 students</b>
19.	<b>Telling Terrible Tales, with storyteller Dale Jarvis</b>	Dale Jarvis	May 17 & 18, 2010	District School	Newfoundland and Labrador is blessed with more phantom ships, fairies, witches, goblins, giant squid, old hags, ghostly ballerinas, vanishing hitchhikers, jacky lanterns, sea monsters, one-legged beasts, and other fabulous and frightening creatures than any other spot in Canada. No one knows those stories better than storyteller Dale Jarvis, ghost guy and creator of the award-winning St. John's Haunted Hike. But have you always wanted to be able to tell a good ghost story yourself? Join Dale Jarvis for this introductory minicourse for beginning storytellers with a flair for the gothic and ghoulish. This is a hands-on workshop for outgoing students who love creative writing, drama, storytelling, and things that go bump in the night. <b>Maximum 20 students</b>
<b>Philosophy</b>					
20.	<b>What is Human Nature?</b>	Dr. Peter Trnka	April 27 & 28, 2010	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>
<b>Athletics and Physiology</b>					
21.	<b>Male Basketball Camp</b>  <b><u>For elite athletes only. Requires a letter of support from your Phys. Ed teacher</u></b>	Coach Peter Benoit	May 3 & 4, 2010	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 Basketball Team. <b>Maximum 40 students Males only</b>

22.	<b>Female Basketball Camp</b>  <u>For elite athletes only. Requires a letter of support from your Phys. Ed teacher</u>	Coach Doug Patridge	May 6 & 7, 2010	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 Women's Basketball Team.  <b>Maximum 40 students Females only</b>
<b>Engineering</b>					
23.	<b>Engineering Design</b>	Mr. Raj Jani	May 3 & 4, 2010	CONA	<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>
24.	<b>Engineering Design</b>	Mr. Raj Jani	May 5 & 6, 2010	CONA	<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>
25.	<b>Underwater Robotics - Explore your world!</b>	Clar Button	TBA	Marine Institute	This is a new course which is entirely unique in Canada. Robots are replacing humans in hazardous environments such as on Underwater explorations to destinations as the Titanic and in our offshore oil industry. Come build your own ROV (Remotely Operated Vehicle) under the direction of scientists and engineers and use it to compete with others in realistic underwater tasks. Explore a local lake. In the process, you

					<p>will learn by experiment about the physics of the oceans, buoyancy, hydrodynamic design, special underwater mechanics, waterproofing, electricity and electronics, video cameras.</p> <p>This exciting course will introduce you to the AES District high school robotics team which will compete in an international ROV competition this year. (<a href="http://www.marinetech.org">www.marinetech.org</a>)</p> <p><b>Grade 9 Students only</b> <b>Maximum 16 students</b></p>
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27.	<b>Introduction to Robotics</b>	Dr. A. Vardy	May 18 & 19, 2010	MUN	<p>In this course we will use the Lego Mindstorms platform to introduce some basic concepts in robotics. Students will build small robots to perform simple tasks such as the following: fetching an object, placing an object, avoiding obstacles. They will employ Lego's child-friendly programming system to create short programs to control their robots. The construction of Lego robots will expose students to important concepts in mechanics (a branch of physics). The creation of programs for the robots will introduce the practical skill of computer programming, one of the core skills in computer science.</p> <p><b>Maximum 15 students</b></p>
28.	<b>Introduction to Robotics</b>	Dr. A. Vardy	May 20 & 21, 2010	MUN	<p>In this course we will use the Lego Mindstorms platform to introduce some basic concepts in robotics. Students will build small robots to perform simple tasks such as the following: fetching an object, placing an object, avoiding obstacles. They will employ Lego's child-friendly programming system to create short programs to control their robots. The construction of Lego robots will expose</p>

					students to important concepts in mechanics (a branch of physics). The creation of programs for the robots will introduce the practical skill of computer programming, one of the core skills in computer science. <b>Maximum 15 students</b> <b>FEMALES Only</b>
29.	<b>Introduction to Computer Programming</b>	Theodore Norvell	April 26 & 27, 2010	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 24students.</b> <b>Grade 8 &amp; 9 Students Only</b>
30.	<b>Introduction to Computer Programming for Girls</b>	Theodore Norvell	April 28 & 29, 2010	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 24students.</b> <b>Females Only</b> <b>Grade 8 &amp; 9 Students Only</b>
31.	<b>Programming with Alice</b>	Rhada Gupta	April 26 - 28 , 2010	MUN	Alice is a 3D interactive animation environment which teaches fundamental programming concepts without the frustrations of traditional programming languages. Students will learn to create virtual worlds containing three-dimensional characters and objects that move and interact. They will learn to become the scriptwriter and director of their own stories. <b>Maximum 12 -15 students</b>
<b>Business</b>					
32.	<b>IT'S YOUR BUSINESS! Exploring Business Ideas that Suit You</b>	Barry Green	April 27 & 28, 2010	CONA	This workshop will help you chose an idea for a product (or service) to be marketed. Then you will look at marketing and advertising. You will design and produce a flyer or brochure using desktop publishing. You will be taught all about desktop publishing. <b>Maximum 12 students</b>

**ART**

33.	<b>Textiles</b>	Katie Parnham	May 3 & 4, 2010	CONA	A fun packed two days is planned for the textile fanatics. You will hand dye, screen print and sew your own messenger bag. Have a personalized tour of the Textile Studies Graduating Student Show. Immerse yourself with creative energy, experience Textile Studies, and go home with some cool projects <b>Maximum 12 students</b>
34.	<b>Textiles</b>	Katie Parnham	May 22 & 23, 2010	CONA	A fun packed two days is planned for the textile fanatics. You will hand dye, screen print and sew your own messenger bag. Have a personalized tour of the Textile Studies Graduating Student Show. Immerse yourself with creative energy, experience Textile Studies, and go home with some cool projects <b>Maximum 12 students</b>
35.	<b>Art</b>	Angella Otto	April 26 & 27, 2010	District School	Picasso' work sells for millions, Michalangelo's work is priceless, and museums are filled with art treasures! Discover the world of art appreciation and dapple into it yourself. Students will explore art concepts through the use of various media such as paint, charcoal, plastecine and pastels. Students will produce several finished pieces. <b>Maximum 12 students</b>
36.	<b>Art</b>	Angella Otto	April 29 & 30, 2010	District School	Picasso' work sells for millions, Michalangelo's work is priceless, and museums are filled with art treasures! Discover the world of art appreciation and dapple into it yourself. Students will explore art concepts through the use of various media such as paint, charcoal, plastecine and pastels. Students will produce several finished pieces. <b>Maximum 12 students</b>
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38.	<b>Art</b>	Angella Otto	May 6 & 7, 2010	District School	Picasso' work sells for millions, Michalangelo's work is priceless, and museums are filled with art treasures! Discover the world of art appreciation and dapple into it yourself. Students will explore art concepts through the use of various media such as paint, charcoal, plastecine and pastels. Students will produce several finished pieces. <b>Maximum 12 students</b>

