STEM CANADA

FOR STUDENTS

AGES 6-17

VIRTUAL STEM INNOVATION SUMMER PROGRAMMING

STEM IMMERSION LEARNING

Enhance your existing learning curriculum with our over 80 STEM courses!

RESOURCES/GLOBAL/LIVE TEACHER/CERTIFICATE

(877)822-0080

stemleadershipcanada.com/preu-stem

STEM Canada

Virtual STEM Programming

For Students Ages 6 - 17

UNLOCK & ACHIEVE YOUR POTENTIAL ACROSS 80 COURSES
LIVE REAL-TIME COURSE INSTRUCTOR & 2 HOUR SESSIONS DAILY

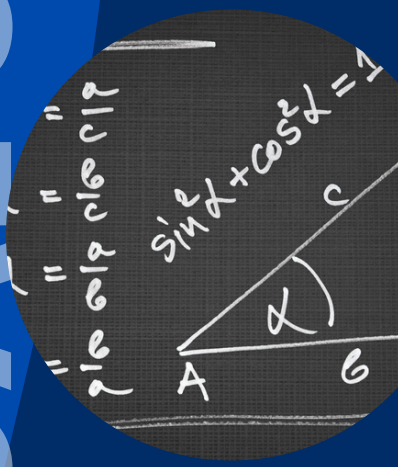
GLOBAL
Students from across Canada and all other countries are welcome to register.

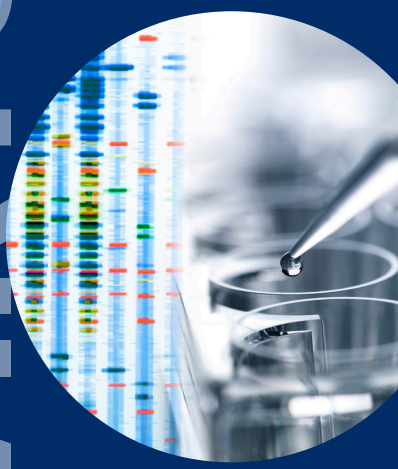
RESOURCES
All course resources are included.

LIVE TEACHER
Always LIVE classes with an instructor for hands on learning and support.

CERTIFICATE
Receive a certificate of completion when you finish course levels.

VIRTUAL SUMMER





Register Now

(877)822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Discover the Excitement of STEM Education – Enroll Today!

Unlock your child's potential and inspire their curiosity with our engaging virtual STEM courses starting July 15, 2024. Our diverse range of subjects and flexible scheduling make it easy for students to explore their interests and develop critical skills.

Please take advantage of our special early bird offer with 50% off regular prices until July 5, 2024!

Unlocking Boundless Opportunities with Virtual STEM Immersion Classes for STEM-Interested Students.

Embark on an enriching journey of discovery and innovation with our virtual STEM immersion classes tailored for students age 6 - 17. By joining our dynamic online community, students gain access to a plethora of benefits that foster holistic development and prepare them for success in an ever-evolving world.

Enroll Today and Ignite Your Child's Passion for STEM!

Join our virtual STEM immersion classes and empower children to excel in the exciting world of science, technology, engineering, and mathematics. With our innovative curriculum, experienced instructors, and supportive community, the possibilities are endless. Enroll today and unlock a world of opportunities for your child's future!

Benefits

Flexibility and Convenience

Our virtual classes offer the flexibility to accommodate diverse schedules, allowing students to learn in the comfort of their homes.

Hands-On Learning

Through live instructor-led interactive sessions and immersive experiences, students engage in hands-on learning that brings STEM concepts to life. From conducting experiments to coding projects, our curriculum emphasizes practical application, empowering students to become active participants in their education.

Personalized Attention

With dedicated instructors, students receive personalized attention and support tailored to their unique learning styles and goals. Whether they're beginners or aspiring experts, our instructors provide guidance every step of the way, ensuring that each student reaches their full potential.

Collaboration and Community

Our virtual platform fosters collaboration and networking opportunities, allowing students to connect with like-minded peers from around the world. Through group projects, discussions, and team-based activities, students develop crucial teamwork and communication skills essential for success in STEM fields.

Future-Ready Skills

By immersing themselves in STEM education, students gain essential skills such as critical thinking, problem-solving, and digital literacy. These skills not only prepare them for future academic pursuits but also equip them for a wide range of career opportunities in STEM-related industries.

CONTACT

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

July, Aug 2024

WEEKLY COURSES

COURSE LIST

SCIENCE

- Biochemistry (Beginner, Advanced)
- Chemistry
- Human Physiology
- Immunology
- Neuroscience (Beginner, Advanced)
- Pharmacology
- Astrophysics

CODING

- Java (Beginner, Advanced)
- C ++ Programming (Beginner, Advanced)
- C Programming (Beginner)
- C # Programming (Beginner, Advanced)
- HTML / CSS
- Python (Beginner, Advanced)

TECHNOLOGY

- Video Game Development - Part 1, 2
- 3D Animation (Maya/Blender)
- Artificial Intelligence
- Robotics
- Video Editing - Part 1
- Video Editing - Part 2
- Mobile App Development

ENGINEERING

- Biomedical Engineering
- Electrical Engineering
- Mechanical Engineering
- Aerospace Engineering

MATH

- Grade 2
- Grade 3
- Grade 4
- Grade 5
- Grade 9 Math Pathways: Pt 1, Pt 2 - FREE
- Math Calculus
- Math Advanced Functions
- Grade 5
- Grade 6
- Grade 7
- Grade 8

LANGUAGE/ARTS

- Anime (Beginner, Advanced)
- Graphic Novel
- Character Design
- French Immersion Skills: Grade 2, 3, 4, 5, 6, 7, 8
- Spanish (Beginner)

*IN-PERSON VIRTUAL REALITY LABS:

VR LAB PROGRAM LOCATIONS: UNIVERSITY OF TORONTO, UNIVERISTY OF CALGARY, UNIVERSITY OF BRITISH COLUMBIA)

- *All classes ARE beginner or intermediate level unless otherwise stated.*
- *Receive a certificate of completion (download and print or order a hard copy) when a course is completed.*

CONTACT

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Science:

Astrophysics

Astrophysics

The Astrophysics class introduces students to the fascinating field of astrophysics. The learning objective is to provide an understanding of the principles of astrophysics, including the study of stars, galaxies, and the universe. Students will learn about the life cycle of stars, black holes, cosmology, and the tools used by astrophysicists.

By the end of the class, students will have a foundational understanding of astrophysics and be able to explore more advanced topics in the field.

Grades 2 - 11

August 5 - 9
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the fundamental principles of astrophysics.
- Learn about the life cycle of stars and the formation of galaxies.
- Explore the concepts of black holes and cosmology.
- Understand the tools and methods used by astrophysicists.
- Develop problem-solving skills in the context of astrophysics.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain the basic principles of astrophysics.
- Describe the life cycle of stars and the formation of galaxies.
- Understand the concepts of black holes and cosmology.
- Identify and explain the tools used by astrophysicists.
- Solve problems and analyze data related to astrophysics.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Introduction to Biochemistry

Biochemistry

The Biochemistry class is designed to introduce students aged 10 to 17 to the fundamental concepts and principles of biochemistry. The learning objective is to provide an understanding of the chemical processes that occur within living organisms. Students will learn about biomolecules, metabolic pathways, enzyme kinetics, and the chemical basis of gene cs.

By the end of the class, students will be able to explain key biochemistry concepts, understand the role of biochemistry in cellular processes, and analyze the biochemical basis of diseases.

Grades 3 - 6	Grades 7 - 11
July 15 - 19 12:45 pm – 2:15 pm EST	July 15 - 19 2:30 pm – 4:00 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic principles of biochemistry and the structure of biomolecules.
- Learn about metabolic pathways and their regulation.
- Explore enzyme kinetics and the factors that influence enzyme activity.
- Understand the chemical basis of genetics and the role of nucleic acids.
- Analyze the biochemical basis of diseases and how biochemical processes are altered in disease states.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain the structure and function of carbohydrates, lipids, proteins, and nucleic acids.
- Describe key metabolic pathways and their regulatory mechanisms.
- Understand enzyme kinetics and the factors that affect enzyme activity.
- Explain the chemical basis of genetic information and its role in cellular processes.
- Analyze and discuss the biochemical basis of various diseases.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Biochemistry Advanced

Biochemistry Advanced

The Bio-Chemistry class aims to build upon the foundational understanding of biochemistry principles gained in the introductory class. The learning objective is to explore more advanced topics in biochemistry, such as protein structure, metabolism, and molecular genetics. Students will learn about complex biochemical pathways and how they contribute to cellular function and disease. By the end of the class, students will be able to analyze and interpret complex biochemical processes, understand the molecular basis of diseases, and apply advanced biochemistry principles to solve problems. Follow-up to Introduction to Biochemistry.

Grades 3 - 11

August 12 - 16
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Build upon foundational biochemistry principles with advanced topics.
- Explore the structure and function of proteins.
- Study complex metabolic pathways and their regulation.
- Understand molecular genetics and its role in heredity and disease.
- Analyze the biochemical basis of cellular functions and diseases.
- Apply biochemistry principles to solve scientific problems.

Learning Outcomes:

By the end of this course, students will be able to:

- Identify biochemical processes.
- Understanding protein structure.
- Explain various metabolic pathways and their contributions to cellular energy and function.
- Understand and describe the molecular basis of various diseases.
- Apply advanced biochemistry principles to solve biochemical problems and case studies.
- Understand molecular genetics and its impact on cellular function and heredity.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Introduction to Chemistry

Chemistry

Class is designed to introduce students to the fundamental concepts and principles of chemistry. The learning objective is to provide an understanding of chemical reactions, the periodic table, and the properties of matter. Students will learn about atoms, molecules, chemical bonds, reactions, and stoichiometry. By the end of the class, students will be able to explain basic chemistry concepts, understand the role of chemistry in everyday life, and analyze chemical equations and reactions.

Discover the intricate world of biochemical processes and molecular interactions in our "Introduction to Biochemistry" course, where you'll explore the building blocks of life and their roles in biological systems.

Grades 3 - 9

August 5 - 9
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic principles of chemistry, including atomic structure and the periodic table.
- Learn about chemical bonding, reactions, and stoichiometry.
- Explore the properties of matter and how they change during chemical reactions.
- Analyze and balance chemical equations.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain the structure of atoms and the organization of the periodic table.
- Describe different types of chemical bonds and reactions.
- Understand and apply the concepts of stoichiometry in chemical equations.
- Analyze the properties of substances and predict the outcomes of chemical reactions.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Human Physiology

Human Physiology

The Human Physiology class aims to introduce students to the study of how the human body functions. The learning objective is to provide an understanding of the major organ systems, their structure, and their physiological processes. Students will explore topics such as the cardiovascular system, respiratory system, nervous system, and digestion. By the end of the class, students will be able to explain the functions of major organ systems, understand homeostasis in the human body, and analyze the impact of lifestyle choices on human health.

By the end of the class, students will be able to explain the basics of neuroscience, understand the role of the brain in behavior and cognition, and analyze scientific studies related to the field.

Grades 3 - 11

July 22 - 26
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98
Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic structure and function of major organ systems.
- Learn about the physiological processes that occur within these systems.
- Explore the concept of homeostasis and how the body maintains balance.
- Analyze the effects of various lifestyle choices on health and physiology.

Learning Outcomes:

By the end of this course, students will be able to:

- Describe the structure and function of the cardiovascular, respiratory, nervous, and digestive systems.
- Explain the physiological processes that occur within these systems.
- Understand the importance of homeostasis and how it is maintained.
- Analyze and discuss the impact of diet, exercise, and other lifestyle factors on human health.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Immunology

Immunology

The Immunology Beginner class, designed for students aged 10 to 17 with no prior knowledge of immunology, aims to introduce the fundamental principles of immunology, including the immune system's structure and function, the body's defense mechanisms, and basic concepts of immunological responses. By the end of the class, students will understand the basics of the immune system, identify different types of immune cells, and describe how the body protects itself from pathogens.

Grades 3 - 11

July 29 - August 2
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Introduce the fundamental principles of immunology.
- Explain the structure and function of the immune system.
- Identify various types of immune cells and their roles.
- Understand the body's defense mechanisms against pathogens.
- Learn about basic immunological responses and processes.
- Develop a foundational knowledge of how the immune system maintains health and fights disease.

Learning Outcomes:

By the end of this course, students will be able to:

- Understand immune system basics.
- Identify Immune cells.
- Knowledge of defense mechanisms.
- Understand basic immunological responses.
- Recognition of pathogen defenses.
- Understand how the immune system protects the body from pathogens like bacteria and viruses.
- Develop a foundational knowledge that prepares them for more advanced studies in immunology and related fields.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Introduction to Neuroscience

Neuroscience

The Neuroscience class for ages 10-17 aims to introduce students to the field of neuroscience and the workings of the human brain. The learning objective is to provide a foundational understanding of neuroscience principles, brain structure, and neural processes. Students will explore topics such as brain development, sensory perception, memory, and learning.

By the end of the class, students will be able to explain the basics of neuroscience, understand the role of the brain in behavior and cognition, and analyze scientific studies related to the field.

Grades 3 - 6	Grades 7 - 11
July 15 - 19 2:30 pm – 4:00 pm EST	July 15 - 19 12:45pm - 2:15 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Gain an understanding of the basic principles of neuroscience.
- Learn about the structure and function of the brain and nervous system.
- Explore how the brain develops and changes over time.
- Understand sensory perception and how the brain processes sensory information.
- Examine the mechanisms of memory and learning.
- Analyze scientific studies and research findings in the field of neuroscience.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain foundational concepts in neuroscience, including the structure and function of neurons and neural networks.
- Describe the major parts of the brain and their roles in behavior and cognitive processes.
- Understand the processes involved in brain development and how they influence behavior.
- Identify and explain the different types of sensory perception and how the brain interprets sensory inputs.
- Discuss the mechanisms behind memory formation and learning.
- Critically evaluate and interpret scientific studies related to neuroscience.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Neuroscience Advanced

Neuroscience Advanced

Similar to the first neuroscience class mentioned, this class focuses on providing an introduction to the field of neuroscience. The learning objective is to expand on the foundational knowledge gained in the introductory class and delve deeper into advanced topics in neuroscience. Students will study topics such as neuroplasticity, neural networks, sensory systems, and cognitive neuroscience.

By the end of the class, students will be able to apply advanced neuroscience concepts to explain brain functions, analyze neural pathways, and discuss the latest discoveries in the field. Follow-up to Introduction to Neuroscience.

Grades 3 - 11

August 12 - 16
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Expand on foundational neuroscience knowledge with advanced topics.
- Understand the principles of neuroplasticity and neural networks.
- Study the sensory systems and their functions.
- Delve into cognitive neuroscience and its applications.
- Analyze neural pathways and their significance.
- Discuss recent discoveries and advancements in neuroscience.

Learning Outcomes:

By the end of this course, students will be able to:

- Application of Advanced Neuroscience Concepts: Students will be able to apply advanced neuroscience concepts to explain brain functions.
- Analysis of Neural Pathways: Students will analyze various neural pathways and understand their roles in brain activities.
- Understanding Neuroplasticity: Students will explain the concept of neuroplasticity and its importance in learning and recovery.
- Knowledge of Sensory Systems: Students will describe how different sensory systems work and their contributions to perception.
- Cognitive Neuroscience Insights: Students will discuss the basics of cognitive neuroscience and its implications for understanding thought processes and behaviors.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Pathology

Pathology

The Pathology class aims to introduce students to the field of pathology and the study of diseases. The learning objective is to provide a foundational understanding of pathological principles, the mechanisms of disease, and the body's response to injury. Students will explore topics such as cellular injury, inflammation, infection, neoplasia, and genetic disorders.

By the end of the class, students will be able to explain the basics of pathology, understand how diseases develop and affect the body, and analyze scientific studies related to pathological processes.

Grades 3 - 11

July 22 - 26
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the fundamental principles of pathology.
- Learn about the mechanisms of disease and the body's response to injury.
- Explore different types of diseases, including infections, inflammations, and genetic disorders.
- Analyze scientific studies and real-world examples related to pathology.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain key concepts in pathology, including cellular injury, inflammation, and neoplasia.
- Describe how different diseases develop and impact the human body.
- Identify various pathological processes and their implications.
- Critically evaluate scientific literature and case studies in the field of pathology.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Medical Sciences:

Pharmacology

Pharmacology

The Pharmacology Beginner class, designed for students with no prior knowledge of pharmacology, aims to introduce the fundamental principles of pharmacology, including drug classifications, mechanisms of action, therapeutic effects, and side effects.

By the end of the class, students will understand the basics of how drugs interact with the body, the role of pharmacology in medicine, and the importance of safe medication practices.

Grades 3 - 11

August 5 - 9
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Introduce the fundamental principles of pharmacology.
- Explain the classification and categories of drugs.
- Understand the mechanisms of drug action.
- Learn about the therapeutic effects and side effects of drugs.
- Explore the role of pharmacology in the medical field.
- Emphasize the importance of safe medication practices.

Learning Outcomes:

By the end of this course, students will be able to:

- Understanding of Drug Basics.
- Students will be able to classify different types of drugs and understand their uses.
- Students will explain how drugs work at the molecular and cellular levels.
- Students will describe the therapeutic effects and potential side effects of various drugs.
- Students will understand the role of pharmacology in medicine, including how medications are developed and prescribed.
- Students will learn the importance of safe medication practices, including dosage, administration, and potential interactions.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Engineering:

Aerospace Engineering

Aerospace Engineering

The Aerospace Engineering class introduces students to the fundamental concepts of aerospace engineering. The learning objective is to provide an understanding of the principles of flight, aerodynamics, and space exploration. Students will learn about aircraft design, propulsion systems, and the challenges of space travel.

By the end of the class, students will have a foundational understanding of aerospace engineering and be able to design simple aerospace models.

Grades 3 - 11

August 5 - 9
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic principles of flight and aerodynamics.
- Learn about the design and function of aircraft and spacecraft.
- Explore propulsion systems and their role in aerospace engineering.
- Understand the challenges and opportunities in space exploration.
- Develop problem-solving skills in the context of aerospace engineering.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain the principles of flight and the factors that affect aerodynamics.
- Describe the design and operation of various types of aircraft and spacecraft.
- Understand the different types of propulsion systems used in aerospace engineering.
- Identify key challenges in space exploration and discuss potential solutions.
- Design and create simple aerospace models.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Engineering:

Biomedical Engineering

Biomedical Engineering

The Biomedical Engineering class aims to introduce students to the interdisciplinary field of biomedical engineering. The learning objective is to provide an understanding of the application of engineering principles to the medical field. Students will learn about medical devices, tissue engineering, and biomedical imaging.

By the end of the class, students will understand the role of biomedical engineering in healthcare and be able to design basic biomedical devices.

Grades 3 - 11

July 29 - August 2
11:00 am – 12:30 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the fundamental principles of biomedical engineering.
- Learn about the design and function of medical devices.
- Explore the field of tissue engineering and regenerative medicine.
- Understand biomedical imaging techniques and their applications.
- Develop problem-solving skills in the context of biomedical engineering.

Learning Outcomes:

By the end of this course, students will be able to:

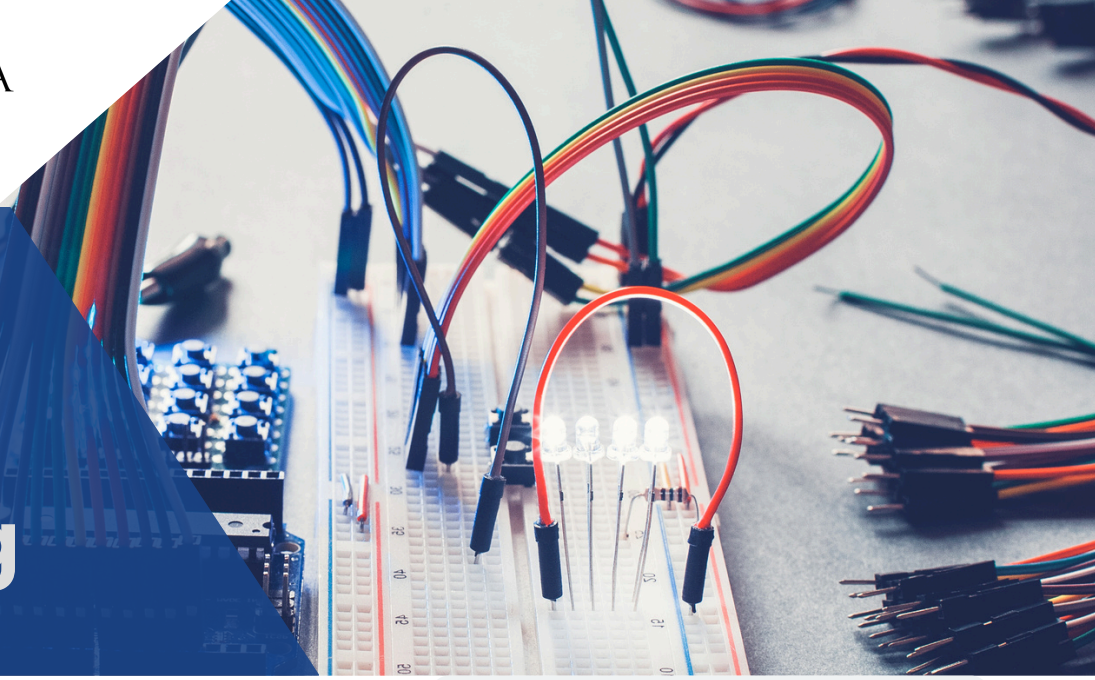
- Explain the basic principles and applications of biomedical engineering.
- Describe the design and operation of common medical devices.
- Understand the principles of tissue engineering and its applications in medicine.
- Explain various biomedical imaging techniques and their uses.
- Design and create simple biomedical devices.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA



Engineering:

Electrical Engineering

Electrical Engineering

This course serves as an introductory exploration into the fundamental concepts and principles of electrical engineering. Through a combination of theoretical lectures and hands-on laboratory exercises, students will develop a solid understanding of basic electrical circuits, electronic devices, and systems. Emphasis will be placed on practical applications and problem-solving techniques, preparing students for further study and careers in electrical engineering.

= THIS IS A PREMIUM COURSE THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.

Grades 3 - 11

July 29 - August 2
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95 + $49 equipment charge
Early Bird Price before **July 5, 2024:** $64.98 + $49 equipment charge

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the fundamental principles of electricity, including voltage, current, and resistance.
- Analyze and design basic electrical circuits using circuit laws and theorems.
- Gain proficiency in using electronic components and equipment for circuit construction and measurement.
- Apply knowledge of electrical engineering principles to solve real-world engineering problems.

Learning Outcomes:

By the end of this course, students will be able to:

- Demonstrate a comprehensive understanding of electrical circuit theory and analysis techniques.
- Design and construct simple electrical circuits to meet specified requirements.
- Utilize laboratory equipment to measure and analyze electrical signals accurately.
- Apply critical thinking and problem-solving skills to troubleshoot and debug electrical circuits effectively.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Engineering:

Mechanical Engineering

Mechanical Engineering

This advanced Mechanical Engineering course is designed for students aiming to deepen their understanding of mechanical systems and engineering principles.

The course covers advanced topics in thermodynamics, fluid mechanics, material science, and mechanical design.

All Ages

August 5 - 9
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Advanced Thermodynamics: Understand the laws of thermodynamics and their applications in real-world systems.
- Fluid Mechanics: Analyze complex fluid systems and apply principles of fluid dynamics.
- Material Science: Explore the properties and applications of advanced materials in engineering.
- Mechanical Design: Design and analyze mechanical systems using advanced engineering tools and software.
- Project-Based Learning: Apply engineering principles to real-world projects and challenges.

Learning Outcomes:

By the end of this course, students will be able to:

- Demonstrate a comprehensive understanding of electrical circuit theory and analysis techniques.
- Design and construct simple electrical circuits to meet specified requirements.
- Utilize laboratory equipment to measure and analyze electrical signals accurately.
- Apply critical thinking and problem-solving skills to troubleshoot and debug electrical circuits effectively.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Art:

3D Animation

3D Animation

The Blender - 3D Animation class introduces students to the basics of 3D animation using Blender / Maya. The learning objective is to provide an understanding of 3D modeling, texturing, rigging, and animation. Students will learn how to create 3D models, apply textures, rig characters, and animate scenes using Blender / Maya

By the end of the class, students will be able to create their own 3D animations and understand the fundamentals of 3D animation.

Grades 3 - 11

August 5 - 9
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic principles of 3D animation.
- Learn to use Blender / Maya for 3D modeling, texturing, rigging, and animation.
- Develop skills in creating and animating 3D models.
- Explore techniques for texturing and rigging characters.
- Understand the workflow and tools used in 3D animation.

Learning Outcomes:

By the end of this course, students will be able to:

- Create 3D models.
- Apply textures to 3D models and characters.
- Rig characters for animation.
- Animate scenes and create 3D animations.
- Understand the complete workflow of 3D animation.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Technology:

Introduction to Mobile App Development

Mobile App Development:

This advanced Mobile App Development course is designed for students aiming to provide in-depth knowledge and skills for developing applications on both iOS and Android platforms.

The course covers advanced concepts in mobile app development, including user interface design, data management, network communication, and cross-platform development.

= THIS IS A PREMIUM COURSE THAT IS DOUBLE TIME IN LENGTH

Grades 3 - 11

August 12 - 16
12:45 pm – 3:45 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $229.95
Early Bird Price before **July 5, 2024 :** $114.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Master advanced UI/UX design principles for creating visually appealing and user-friendly mobile apps.
- iOS Development: Learn to develop iOS applications using Swift and Xcode, focusing on advanced features and best practices.
- Android Development: Gain expertise in Android app development using Kotlin and Android Studio, covering advanced components and APIs.
- Understand and implement data storage solutions, including databases and cloud services.
- Learn how to implement network communication and integrate third-party APIs into mobile apps.
- Explore cross-platform development frameworks such as Flutter and React Native to build apps for both iOS and Android.
- Optimize mobile applications for performance, including memory management and responsiveness.

Learning Outcomes:

By the end of this course, students will be able to:

- Design and implement advanced user interfaces that provide a seamless user experience on both iOS and Android devices.
- Develop complex iOS applications using Swift and Xcode, leveraging advanced features and APIs.
- Build sophisticated Android applications using Kotlin and Android Studio,
- Implement efficient data management solutions, including local databases and cloud storage.
- Integrate network communication and third-party APIs to enhance app functionality.
- Create cross-platform mobile applications using frameworks like Flutter and React Native.
- Optimize mobile apps for better performance and user experience.
- Earn a Certificate of Completion for advanced skills in mobile app development for both iOS and Android platforms

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Technology:

Artificial Intelligence

Artificial Intelligence

The Artificial Intelligence class is designed to introduce students to the fundamentals of AI and machine learning. The learning objective is to provide an understanding of AI concepts, algorithms, and applications. Students will learn about neural networks, natural language processing, and AI ethics. By the end of the class, students will have a basic understanding of AI and be able to develop simple AI models.

Grades 3 - 11

July 29 - August 2
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic concepts and principles of artificial intelligence.
- Learn about different types of AI algorithms and their applications.
- Explore neural networks and their role in machine learning.
- Understand the basics of natural language processing.
- Discuss ethical considerations in the development and use of AI.

Learning Outcomes:

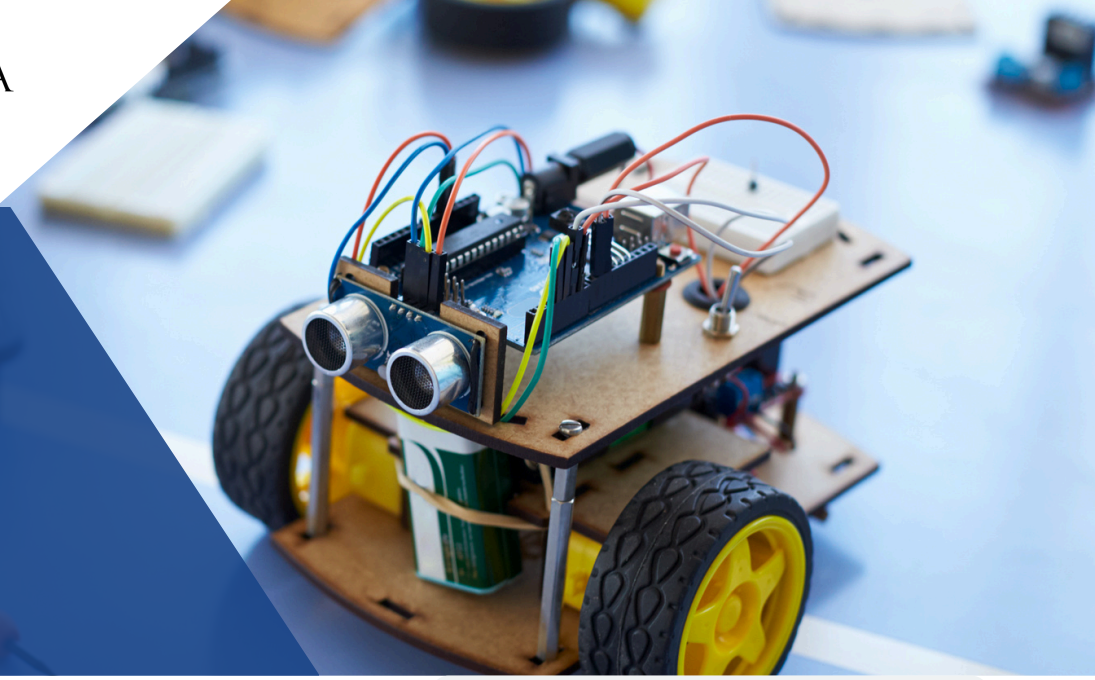
By the end of this course, students will be able to:

- Explain fundamental AI concepts and principles.
- Identify and describe various AI algorithms and their applications.
- Understand and implement basic neural networks.
- Develop simple natural language processing models.
- Discuss the ethical implications of AI and its applications.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA



Technology:

Robotics

Robotics

The Robo cs class aims to introduce students to the exciting field of robotics. The learning objective is to provide hands-on experience in designing, building, and programming robots. Students will learn about robotics components, sensors, and actuators, as well as programming languages specific to robotics, such as Arduino. By the end of the class, students will have acquired practical skills in robot construction, programming, and problem-solving, and will be able to design and implement their own functional robots.

= THIS IS A PREMIUM COURSE THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.

Grades 3 - 11

July 29 - August 2
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95 + $49 equipment charge
Early Bird Price before **July 5, 2024:** $64.98 + $49 equipment charge

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic components and functions of robots.
- Learn to design and build robots using various materials and tools.
- Master the use of sensors and actuators in robotics.
- Develop programming skills using Arduino or LEGO Mindstorms.
- Solve problems and implement solutions in robotic systems.

Learning Outcomes:

By the end of this course, students will be able to:

- Identify and explain the roles of different robotic components.
- Design and construct functional robots.
- Program robots to perform specific tasks using Arduino or LEGO Mindstorms.
- Integrate sensors and actuators into robotic designs.
- Demonstrate problem-solving skills in the context of robotics projects.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Technology:

Video Editing

Video Editing

The Video Editing class using Adobe After Effects introduces students to the fundamentals of video editing and motion graphics. The learning objective is to provide an understanding of video editing techniques, special effects, and animation. Students will learn how to use Adobe After Effects to create and edit videos, add special effects, and produce animations. By the end of the class, students will be able to create and edit videos using After Effects.

Grades 3 - 11	Part 2
August 5 - 9 2:30 pm – 4:00 pm EST	August 12 - 16 2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic principles of video editing and motion graphics.
- Learn how to use Adobe After Effects for video editing.
- Develop skills in adding special effects and animations.
- Explore techniques for creating professional-quality videos.
- Understand the workflow and tools used in video production.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain the principles of video editing and motion graphics.
- Use Adobe After Effects to edit videos and add special effects.
- Create animations and motion graphics using After Effects.
- Produce professional-quality videos with special effects.
- Understand the complete workflow of video production using After Effects.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Technology:

Video Game Development

Video Game Development
(ZBrush, Fusion 360, Unity, Blender)

The Intro to Video Game Development bootcamp is a 3-week long immersive bootcamp divided into three parts. This video game bootcamp aims to introduce students to the world of game development. The learning objective is to provide an overview of game development principles, including game design, level design, and game mechanics. Students will learn about game development concepts, create simple games using game development tools or engines, and understand the basics of game project management.

By the end of the bootcamp, students will have a grasp of the game development process, be able to create basic games using Unity, Fusion 360, and ZBrush, and have a foundation to explore more advanced game development concepts.

= THIS IS A PREMIUM COURSE THAT IS DOUBLE TIME IN LENGTH

Part 1: Gr. 5 - 11	Part 2: Gr. 5 - 11
July 29 - August 2 12:45 pm – 3:45 pm EST	August 19 - 23 12:45 pm – 3:45 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $229.95

Early Bird Price before **July 5, 2024:** $114.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the fundamental principles of game design and development.
- Learn the basics of level design and game mechanics.
- Develop skills in using game development tools such as Unity, Fusion 360, and ZBrush.
- Gain an introduction to game project management.
- Create simple games through hands-on projects.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain core concepts of game design, including level design and game mechanics.
- Use Unity, Fusion 360, and ZBrush to create basic game elements.
- Develop and implement simple games from concept to completion.
- Manage a small game development project, including planning and execution.
- Explore further advanced game development concepts and tools independently.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

C Programming

C Programming

In the C Programming class for students aged 10 to 17, the learning objec ve is to introduce the founda onal concepts of the C programming language. Students will learn about variables, data types, control structures, func ons, and memory management in C. The course aims to develop problem solving skills and logical thinking abilities through practical programming exercises.

By the end of the class, students will be able to write and debug C programs, understand program flow control, and apply essential programming techniques using the C language.

Grades 3 - 6	Grades 7 - 11
July 15 - 19 2:30 pm – 4:00 pm EST	July 15 - 19 12:45 pm – 2:15 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the syntax and structure of C programs.
- Learn to use variables and data types in C.
- Master control structures such as loops and conditionals.
- Develop skills in writing and using functions.
- Understand memory management and pointers.

Learning Outcomes:

By the end of this course, students will be able to:

- Write and compile basic C programs.
- Use variables, data types, and control structures effectively.
- Create and call functions to organize code.
- Manage memory using pointers and dynamic allocation.
- Debug and solve basic programming problems using C.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

C++ Programming (Beginner)

C++ Programming (Beginner)

The C++ class is designed for students aged 10 to 17 and aims to teach the C++ programming language. The learning objective is to introduce the key features of C++, including classes, objects, inheritance, and polymorphism. Students will learn how to write C++ programs, understand memory management, and apply object-oriented programming concepts. By the end of the class, students will be able to design and implement C++ applications, utilize advanced C++ features, and develop problem-solving skills using the language.

Grade 3 - 6	Grade 7 - 11
July 29 - August 2 11:00 am – 12:30 pm EST	August 19 - 23 12:45 pm – 2:15 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the syntax and structure of C++ programs.
- Learn the basics of object-oriented programming (OOP) including classes and objects.
- Master advanced OOP concepts such as inheritance and polymorphism.
- Develop skills in memory management and pointers.
- Write and debug C++ programs.

Learning Outcomes:

By the end of this course, students will be able to:

- Write and compile basic C++ programs.
- Implement classes and objects in C++.
- Use inheritance and polymorphism to create flexible and reusable code.
- Manage memory using pointers and dynamic allocation.
- Solve intermediate programming problems using C++.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

C++ Advanced

C++ Advanced

This advanced C++ course is designed for students aiming to enhance their programming skills in C++. The course covers advanced features of C++, including templates, the Standard Template Library (STL), multithreading, and advanced object-oriented programming concepts.

Grades 3 - 11

August 19 - 23
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand and utilize templates for generic programming in C++.
- Master the use of STL containers, iterators, and algorithms.
- Learn how to write concurrent programs using C++ multithreading features.
- Implement advanced OOP concepts such as design patterns, polymorphism, and inheritance in complex scenarios.
- Optimize C++ code for better performance and efficiency.

Learning Outcomes:

By the end of this course, students will be able to:

- Develop generic and reusable code using templates.
- Efficiently use STL containers and algorithms to solve complex problems.
- Write and debug multithreaded programs in C++.
- Apply advanced OOP principles and design patterns to create robust and maintainable applications.
- Optimize C++ code for performance improvements.
- Earn a Certificate of Completion, validating their advanced C++ programming skills.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

C# Programming (Beginner)

C# Programming (Beginner)

The C# Programming class introduces students aged 8 to 17 to the basics of C# programming. The learning objective is to provide an understanding of the syntax, structure, and concepts of C# programming. Students will learn about variables, data types, control structures, and object-oriented programming (OOP) principles.

By the end of the class, students will be able to write basic C# programs and understand the fundamentals of programming in C#.

Grades 3 - 6	Grades 7 - 11
July 22 - 26 12:45 pm – 2:15 pm EST	July 22 - 26 2:30 pm – 4:00 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic syntax and structure of C# programs.
- Learn to use variables and data types in C#.
- Master control structures such as loops and conditionals.
- Develop skills in object-oriented programming (OOP) using C#.
- Write and debug basic C# programs.

Learning Outcomes:

By the end of this course, students will be able to:

- Write and compile basic C# programs.
- Use variables, data types, and control structures effectively in C#.
- Implement object-oriented programming concepts in C#.
- Create and use classes and objects in C# programs.
- Debug and solve basic programming problems using C#.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

C# Advanced

C# Advanced

This advanced C# course is designed for students aiming to enhance their programming skills in C#. The course covers advanced features of C#, including asynchronous programming, LINQ, design patterns, and application development.

Grades 3 - 11

August 19 - 23
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Learn how to write efficient and responsive C# programs using async and await.
- Master LINQ for querying and manipulating data.
- Understand and implement common design patterns in C#.
- Develop complex applications using advanced C# features and frameworks.
- Debugging and Testing to Improve debugging and testing skills for C# applications.

Learning Outcomes:

By the end of this course, students will be able to:

- Develop and optimize C# applications using asynchronous programming.
- Use LINQ to perform complex data manipulations.
- Implement design patterns to create robust and maintainable code.
- Build and deploy advanced C# applications.
- Earn a Certificate of Completion, validating their advanced C# programming skills.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

HTML & CSS Programming

HTML & CSS Programming

The HTML & CSS class introduces students aged 8 to 17 to the basics of web development. The learning objective is to provide an understanding of HTML and CSS, the fundamental building blocks of web design. Students will learn how to create and style web pages, including layout, typography, and responsive design.

By the end of the class, students will be able to design and build simple websites using HTML and CSS.

Grades 3 - 6	Grades 7 - 11
July 29 - August 2 12:45 pm – 2:15 pm EST	July 29 - August 2 2:30 pm – 4:00 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic principles of web development.
- Learn the syntax and structure of HTML and CSS.
- Develop skills in creating and styling web pages.
- Explore layout techniques and responsive design principles.
- Understand best practices for web design and development.

Learning Outcomes:

By the end of this course, students will be able to:

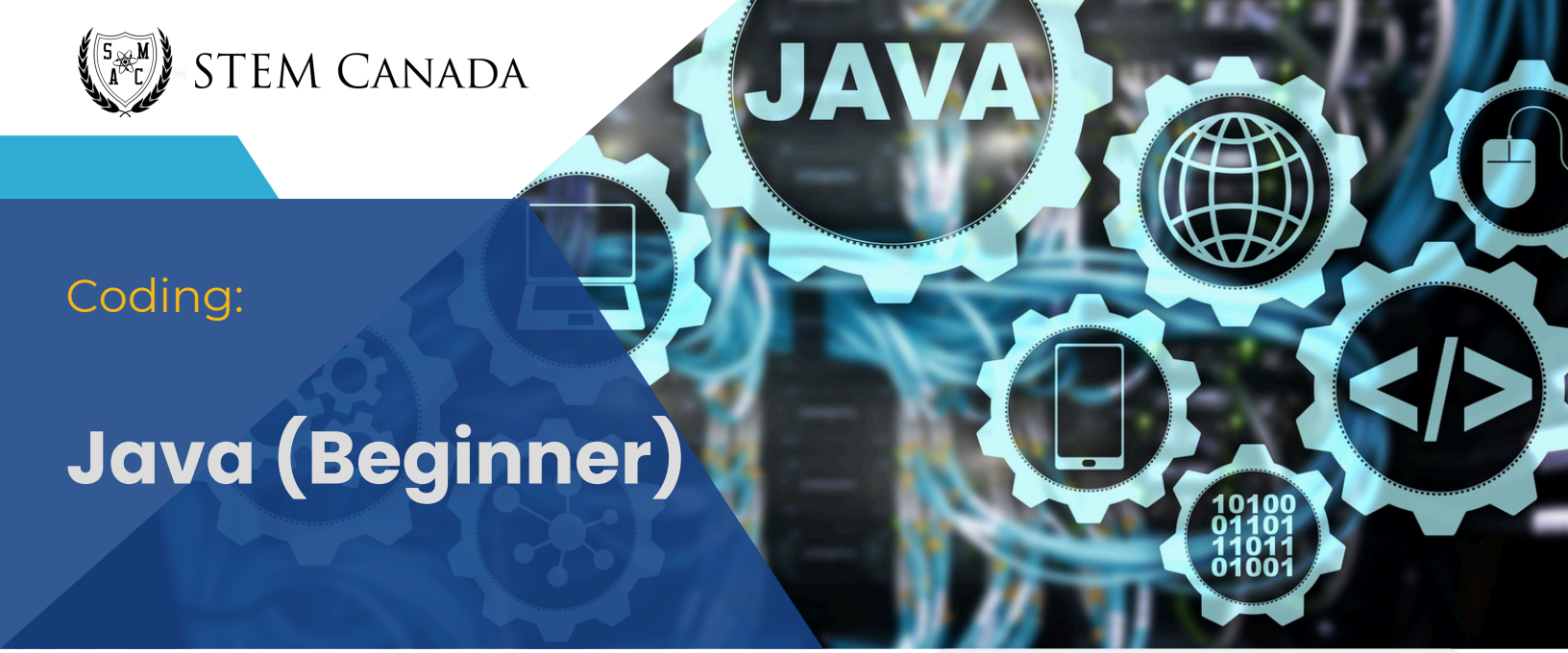
- Create structured web pages using HTML.
- Apply CSS to style web pages, including layout and typography.
- Design responsive web pages that work on different devices.
- Understand and implement best practices in web development.
- Build and deploy simple websites using HTML and CSS.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA



Coding:

Java (Beginner)

Java
Beginner

The Java Beginner class is designed for students aged 10 to 17 who have little or no prior programming experience. The learning objective is to introduce the basics of Java programming language and develop foundational programming skills. Students will learn about variables, data types, control structures, and basic object-oriented programming concepts.

By the end of the class, students will be able to write simple Java programs, understand basic programming concepts, and apply problem-solving skills using Java.

Grades 3 - 6

July 22 - 26
11:00 am – 12:30 pm EST

Grades 7 - 11

July 22 - 26
12:45 pm – 2:15 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the syntax and structure of Java programs.
- Learn to use variables and data types in Java.
- Master control structures such as loops and conditionals.
- Develop skills in writing and using functions.
- Gain an introduction to object-oriented programming (OOP) concepts.

Learning Outcomes:

By the end of this course, students will be able to:

- Write and run basic Java programs.
- Use variables, data types, and control structures effectively.
- Create and call methods to organize code.
- Understand and implement basic OOP concepts such as classes and objects.
- Solve basic programming problems using Java.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

Java Advanced

Java Advanced

The Java Intermediate class is designed for students who already have a basic understanding of Java programming. The learning objective is to build upon their existing knowledge and introduce more advanced topics in Java programming, such as data structures, algorithms, and software development practices.
By the end of the class, students will be able to design and implement complex Java programs, utilize data structures effectively, and understand object-oriented programming concepts.

Grades 3 - 11

August 12 - 16
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the syntax and structure of Java programs.
- Learn to use variables and data types in Java.
- Master control structures such as loops and conditionals.
- Develop skills in writing and using functions.
- Gain an introduction to object-oriented programming (OOP) concepts.

Learning Outcomes:

By the end of this course, students will be able to:

- Write and run basic Java programs.
- Use variables, data types, and control structures effectively.
- Create and call methods to organize code.
- Understand and implement basic OOP concepts such as classes and objects.
- Solve basic programming problems using Java.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Coding:

Python (Beginner)

Python

The Python Beginner class is suitable for students with little to no prior programming experience. The learning objective is to introduce the Python programming language and its fundamental concepts, such as variables, data types, control structures, and functions. Students will learn how to write simple Python programs and solve basic programming problems using Python.

By the end of the class, students will be able to design and implement Python programs, understand basic programming concepts, and develop problem-solving skills using Python.

***Popular APP Development**

Grades 3 - 6	Grades 7 - 11
July 15 - 19 12:45 pm – 2:15 pm EST	July 15 - 19 2:30 pm – 4:00 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the basic syntax and structure of Python programs.
- Learn to use variables and data types in Python.
- Master control structures such as loops and conditionals.
- Develop skills in writing and using functions.
- Gain an introduction to simple data structures such as lists and dictionaries.

Learning Outcomes:

By the end of this course, students will be able to:

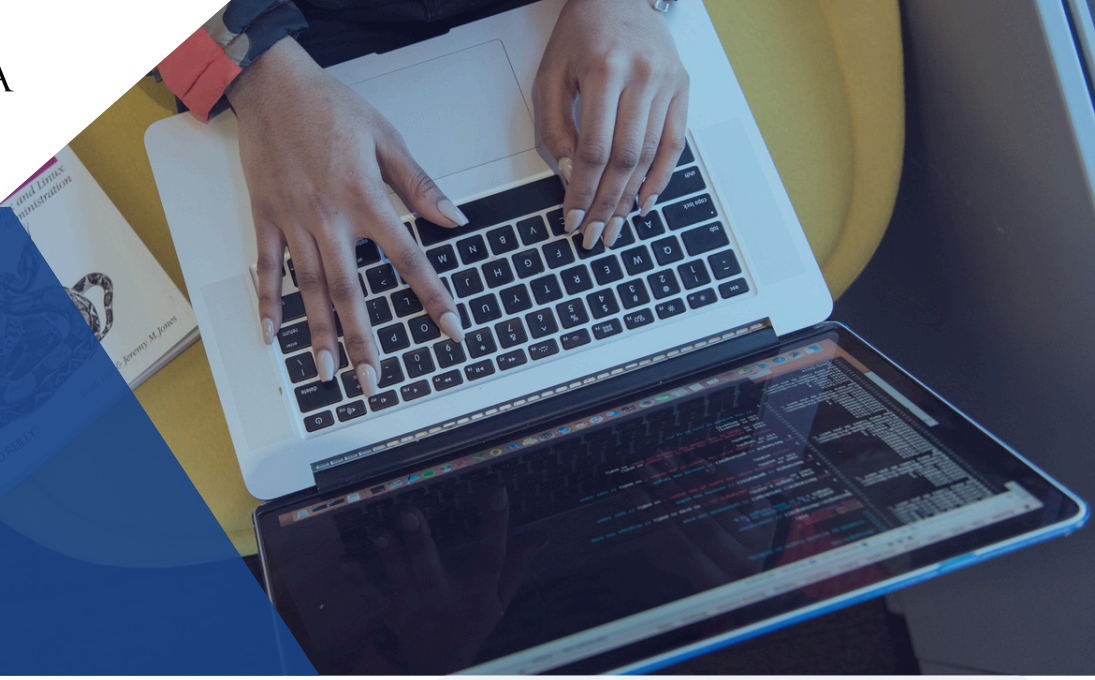
- Write and run basic Python programs.
- Use variables, data types, and control structures effectively.
- Create and call functions to organize code.
- Solve basic programming problems using Python.
- Understand and implement simple data structures in Python.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA



Coding:

Python Advanced

Python Advanced

The Python Advanced class is intended for students who already have a basic understanding of Python programming. The learning objective is to explore advanced topics and techniques in Python programming, such as object-oriented programming, modules, libraries, and data manipulation. Students will learn how to design and implement more complex Python programs, leverage advanced Python features, and utilize external libraries for various applications. By the end of the class, students will have an in-depth understanding of Python as a powerful programming language and be able to tackle more sophisticated programming challenges.

***Popular APP Development**

Grades 3 - 11

August 12 - 16
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Data Structures and Algorithms: Master advanced data structures and algorithms in Python.
- Web Development: Learn how to develop dynamic web applications using frameworks like Django and Flask.
- Machine Learning: Understand the fundamentals of machine learning and implement models using Python libraries.
- Automation: Automate complex tasks using Python scripts.
- Project-Based Learning: Apply Python skills to real-world projects and challenges.

Learning Outcomes:

By the end of this course, students will be able to:

- Implement advanced data structures and algorithms in Python.
- Develop and deploy web applications using Python frameworks.
- Build and train machine learning models using Python libraries.
- Automate tasks and solve complex problems using Python scripts.
- Earn a Certificate of Completion, validating their advanced Python programming skills.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Math:

Math Grades 2 – 8

Math Grades 2 – 8

The Math class for grades 2 to 9 aims to provide students with a solid foundation in mathematics. The learning objective is to cover essential math concepts appropriate for each grade level, including arithmetic, geometry, algebra, and data analysis. Students will develop problem-solving skills and mathematical thinking through engaging activities and practice.

By the end of the class, students will have improved their math skills and gained confidence in their mathematical abilities.

Grades 2, 3 /4, 5 / 6, 7	Grade 8
July 15 - 19: 11:00 am – 12:30 pm EST	July 22 - 26: 2:30pm – 4:00 pm EST
July 22 - 26: 11:00 am – 12:30 pm EST	July29 - Aug2: 2:30 pm – 4:00 pm EST
Part 2	**Part 2**
Aug 12 - 16: 11:00 am – 12:30 pm EST	Aug 12 - 16: 11:00 am – 12:30 pm EST
Aug 19 - 23: 11:00 am – 12:30 pm EST	Aug 19 - 23: 11:00 am – 12:30 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

2 week Regular Price: $259.95
Early Bird Price before **July 5, 2024 :** $99.96 (* 2 week pricing)

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand and master grade-level appropriate math concepts.
- Develop problem-solving and critical thinking skills.
- Learn to apply mathematical concepts to real-world situations.
- Improve computational skills and accuracy.
- Build a strong foundation for future math studies.

Learning Outcomes:

By the end of this course, students will be able to:

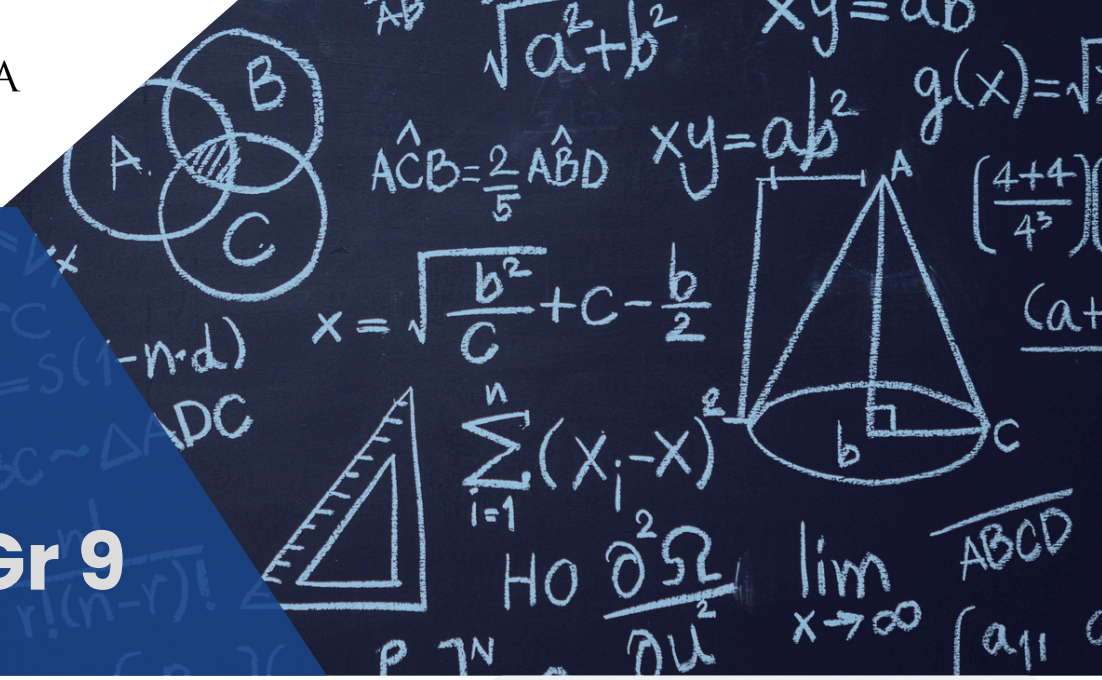
- Solve grade-level appropriate math problems with confidence.
- Apply mathematical concepts to solve real-world problems.
- Demonstrate improved computational skills and accuracy.
- Understand and explain key math concepts covered in the class.
- Approach new math challenges with confidence and curiosity.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA



Math:

Math Pathways Gr 9

Math Pathways
Grade 9 Program

This Grade 9 Math Program is designed for advanced Grade 8 students, aiming to prepare them for high school mathematics. The course covers key Grade 9 math topics, including algebra, geometry, trigonometry, and data analysis.

This virtual math preparation program will be presented to grade 8 students in one - 2 week session for 3 hours per day to total 30 hours in the morning, or in the afternoon.. The program content will review math from grade 8 and introduce the grade 9 math curriculum and its concepts. There will be 4 sessions offered during July and August.

Grade 9	Part 2
July 15 - 19: 11:00 am – 12:30 pm EST	Aug 12 - 16: 11:00 am – 12:30 pm EST
July 22 - 26: 11:00 am – 12:30 pm EST	Aug 19 - 23: 11:00 am - 12:30 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

FREE

- *There is no course fee as this course is offered free of charge, however the standard application fee of $19 applies to register.*

NO CERTIFICATE OF COMPLETION IS PROVIDED FOR MATH PATHWAYS

Learning Objectives:

- Master the fundamentals of algebra, including solving linear equations, inequalities, and quadratic equations.
- Understand geometric principles, including properties of shapes, theorems, and coordinate geometry.
- Learn the basics of trigonometry, including trigonometric ratios and solving right triangles.
- Develop skills in data collection, analysis, and interpretation using statistics.
- Enhance problem-solving skills through practical applications and exercises.

Learning Outcomes:

By the end of this course, students will be able to:

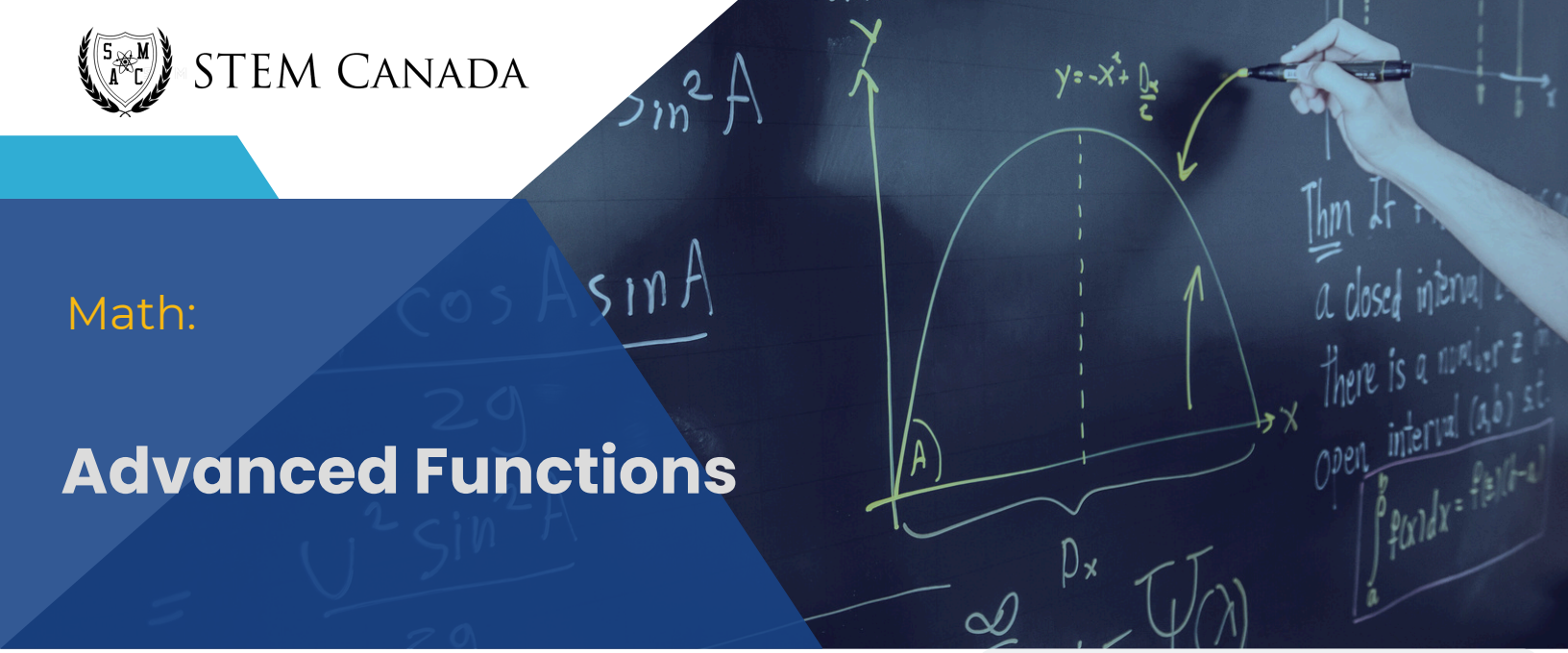
- Solve grade-level appropriate math problems with confidence.
- Apply mathematical concepts to solve real-world problems.
- Demonstrate improved computational skills and accuracy.
- Understand and explain key math concepts covered in the class.
- Approach new math challenges with confidence and curiosity.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA



Math:

Advanced Functions

Advanced Functions

The Math Advanced Functions class is designed for students in grades 11 and 12 who have a strong foundation in algebra and are ready to explore advanced mathematical functions. The learning objective is to provide an understanding of polynomial, exponential, logarithmic, and trigonometric functions. Students will learn to analyze, graph, and solve problems involving these functions.

By the end of the class, students will have a deep understanding of advanced functions and be prepared for higher-level math courses.

Grades 11, 12	Part 2
July29 - Aug2: 12:45am – 2:15pm EST	Aug 12 - 16: 2:30 pm – 4:00 pm EST
Aug 5 - 9: 12:45 am – 2:15 pm EST	Aug 19 - 23: 2:30 pm - 4:00 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

2 week Regular Price: $259.95
Early Bird Price before **July 5, 2024 :** $99.96 (* 2 week pricing)

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the properties and behavior of polynomial, exponential, logarithmic, and trigonometric functions.
- Learn to analyze and graph advanced functions.
- Develop problem-solving skills involving advanced functions.
- Explore real-world applications of advanced functions.
- Prepare for higher-level math courses.

Learning Outcomes:

By the end of this course, students will be able to:

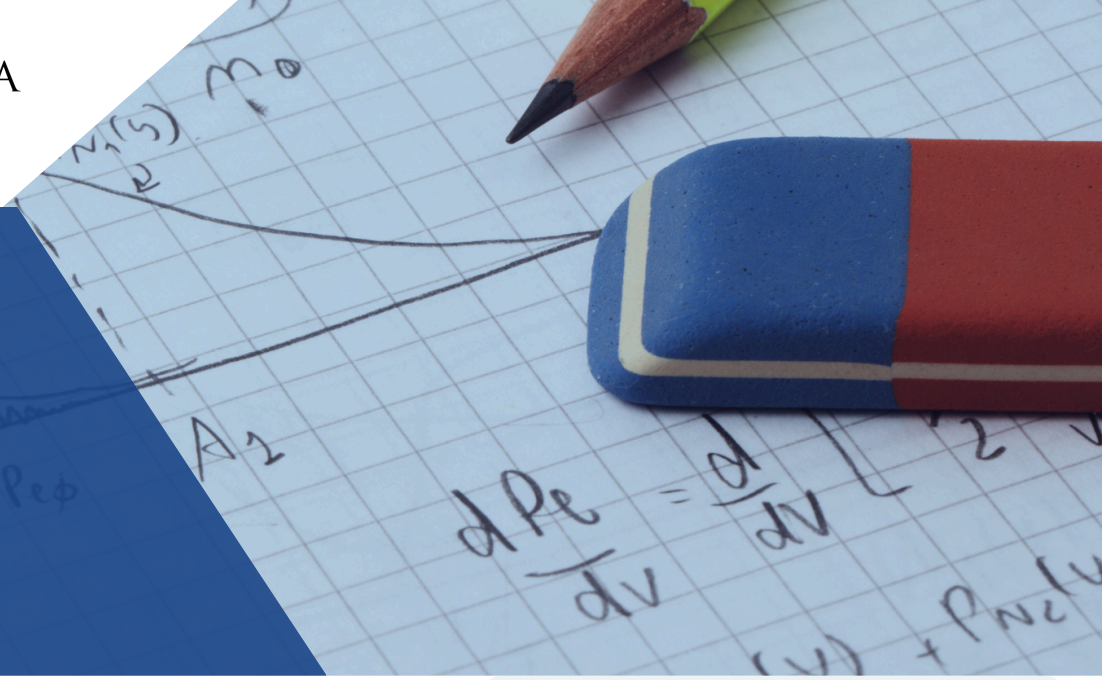
- Analyze and graph polynomial, exponential, logarithmic, and trigonometric functions.
- Solve problems involving advanced functions with confidence.
- Apply advanced functions to solve real-world problems.
- Demonstrate a deep understanding of advanced mathematical functions.
- Be prepared for higher-level math courses and further studies in mathematics.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA



Math:

Calculus

Calculus

The Math Calculus class introduces students grades 11 and 12 to the fundamental concepts of calculus. The learning objective is to provide an understanding of limits, derivatives, integrals, and their applications. Students will learn about the principles of calculus, solve calculus problems, and apply calculus concepts to real-world situations.

By the end of the class, students will have a strong foundation in calculus and be prepared for advanced studies in mathematics.

Grades 11, 12	Part 2
July 15 - 19: 11:00 am – 12:30 pm EST	Aug 12 - 16: 12:45 pm – 2:15 pm EST
July 22 - 26: 11:00 am – 12:30 pm EST	Aug 19 - 23: 12:45 pm - 2:15 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

2 week Regular Price: $259.95
Early Bird Price before **July 5, 2024 :** $99.96 (* 2 week pricing)

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the fundamental concepts of calculus.
- Learn about limits, derivatives, and integrals.
- Develop skills in solving calculus problems.
- Explore the applications of calculus in real-world situations.
- Prepare for advanced studies in mathematics.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain the basic principles of calculus.
- Calculate limits, derivatives, and integrals.
- Solve calculus problems with confidence.
- Apply calculus concepts to solve real-world problems.
- Demonstrate a strong foundation in calculus and readiness for advanced math studies.

Register Now

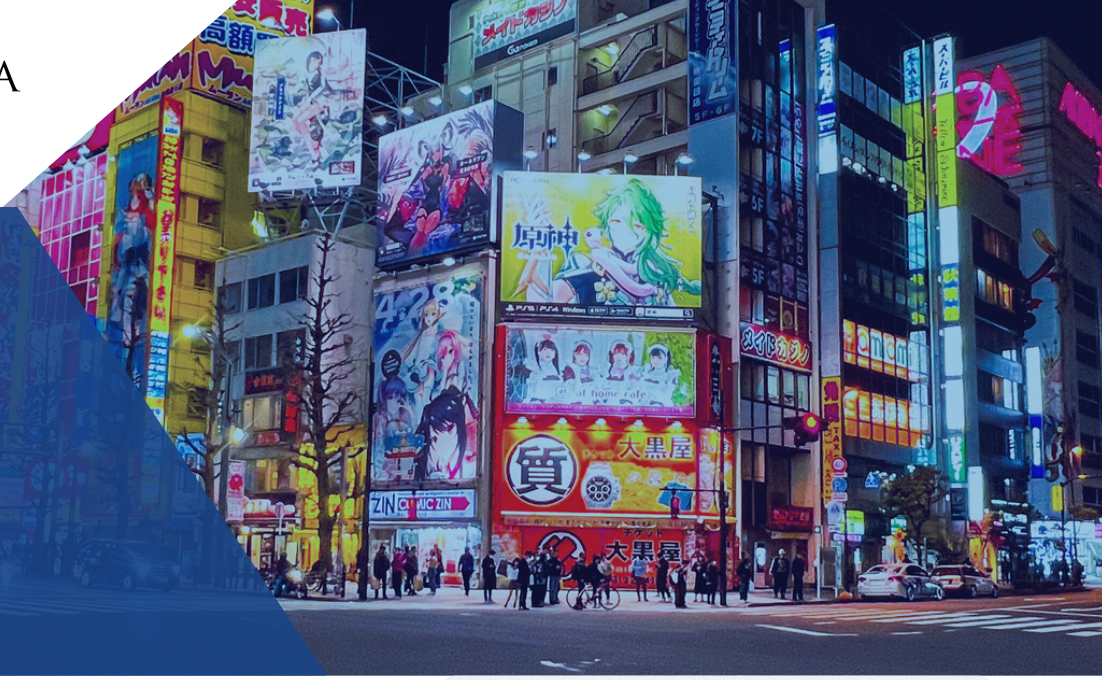
(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Art:

Anime



Anime

The Anime class aims to engage students in the art and culture of Japanese anima on. The learning objective is to explore the history, storytelling techniques, and artistic styles of anime. Students will study different anime genres, analyze anime narratives, and learn about character development.

By the end of the class, students will have a deeper appreciation and understanding of anime as a unique form of entertainment and be able to critically analyze and interpret anime works.

Grades 3 - 11	Advanced
July 22 - 26 12:45 pm – 2:15 pm EST	August 12 - 16 12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the history and evolution of anime.
- Learn about the storytelling techniques used in anime.
- Study different artistic styles and genres within anime.
- Analyze the narrative structure and character development in anime.
- Explore the cultural significance of anime in Japan and globally.

Learning Outcomes:

By the end of this course, students will be able to:

- Describe the history and key milestones in the development of anime.
- Identify and explain the storytelling techniques used in anime.
- Analyze and interpret the narrative and artistic styles of different anime genres.
- Understand character development within anime narratives.
- Appreciate the cultural impact and significance of anime.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Art:

Character Design

Character Design

The Character Design class focuses on teaching students the art of creating compelling and visually appealing characters. The learning objective is to develop students' skills in character design, including concept development, sketching, and rendering. Students will learn how to create unique and expressive characters, understand the principles of anatomy and proportion, and explore various artistic styles.

By the end of the class, students will be able to create original characters with depth and personality, utilize design principles to enhance their creations, and express their artistic vision through character design.

Grades 3 - 11

July 29 - August 2
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Understand the fundamental principles of character design.
- Learn to develop character concepts from initial idea to final design.
- Master sketching and rendering techniques.
- Study the principles of anatomy and proportion in character design.
- Explore different artistic styles and apply them to character creation.

Learning Outcomes:

By the end of this course, students will be able to:

- Describe the history and key milestones in the development of anime.
- Identify and explain the storytelling techniques used in anime.
- Analyze and interpret the narrative and artistic styles of different anime genres.
- Understand character development within anime narratives.
- Appreciate the cultural impact and significance of anime.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Art:

Graphic Novel

Graphic Novel

The Graphic Novel class introduces students to the world of graphic storytelling. The learning objective is to explore the narrative structure, visual language, and artistic techniques used in creating graphic novels. Students will learn how to develop characters, construct engaging plots, and create visually appealing panels.

By the end of the class, students will be able to create their own graphic novels, understand the elements of storytelling within the graphic novel medium, and appreciate the artistry and cultural significance of graphic novels

Grades 3 - 11

August 5 - 9
12:45 pm – 2:15 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Story Development: Learn how to develop compelling stories and scripts for graphic novels.
- Character Design: Master the art of creating unique and memorable characters.
- Layout and Composition: Understand the principles of layout and composition for graphic novels.
- Digital Illustration: Gain skills in digital illustration and coloring techniques.
- Publishing: Learn about the process of publishing and distributing graphic novels.

Learning Outcomes:

By the end of this course, students will be able to:

- Create engaging stories and scripts for graphic novels.
- Design and illustrate unique characters.
- Apply principles of layout and composition to create visually appealing pages.
- Use digital tools to illustrate and color their graphic novels.
- Earn a Certificate of Completion, validating their skills in graphic novel creation.

Register Now

(877)822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA

Language:

French Immersion Program

French Immersion Skills

The French Immersions Skills Building Program aims to develop the French reading, writing and comprehension skills of students aged 6 to 12. The learning objective is to improve students' comprehension, vocabulary, and reading fluency in French. Students will read a variety of texts, including stories, articles, and poems, and engage in activities that enhance their understanding and appreciation of the French language.

By the end of the program, students will have improved their French reading skills and gained confidence in reading French texts.

Grades 2, 3, 4, 5, 6, 7, 8
July29 - Aug2: 11:00am – 12:30pm EST
Aug 5 - 9: 11:00 am – 12:30 pm EST
Aug 19 - 23: 12:45 pm – 2:15 pm EST

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

2 week Regular Price: $259.95
Early Bird Price before **July 5, 2024 :** $99.96 (* 2 week pricing)

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Improve comprehension and vocabulary in French.
- Develop reading fluency and accuracy.
- Engage with a variety of French texts, including stories.
- Enhance understanding and appreciation of the French language.
- Build confidence in reading, writing and comprehending French texts.

Learning Outcomes:

By the end of this course, students will be able to:

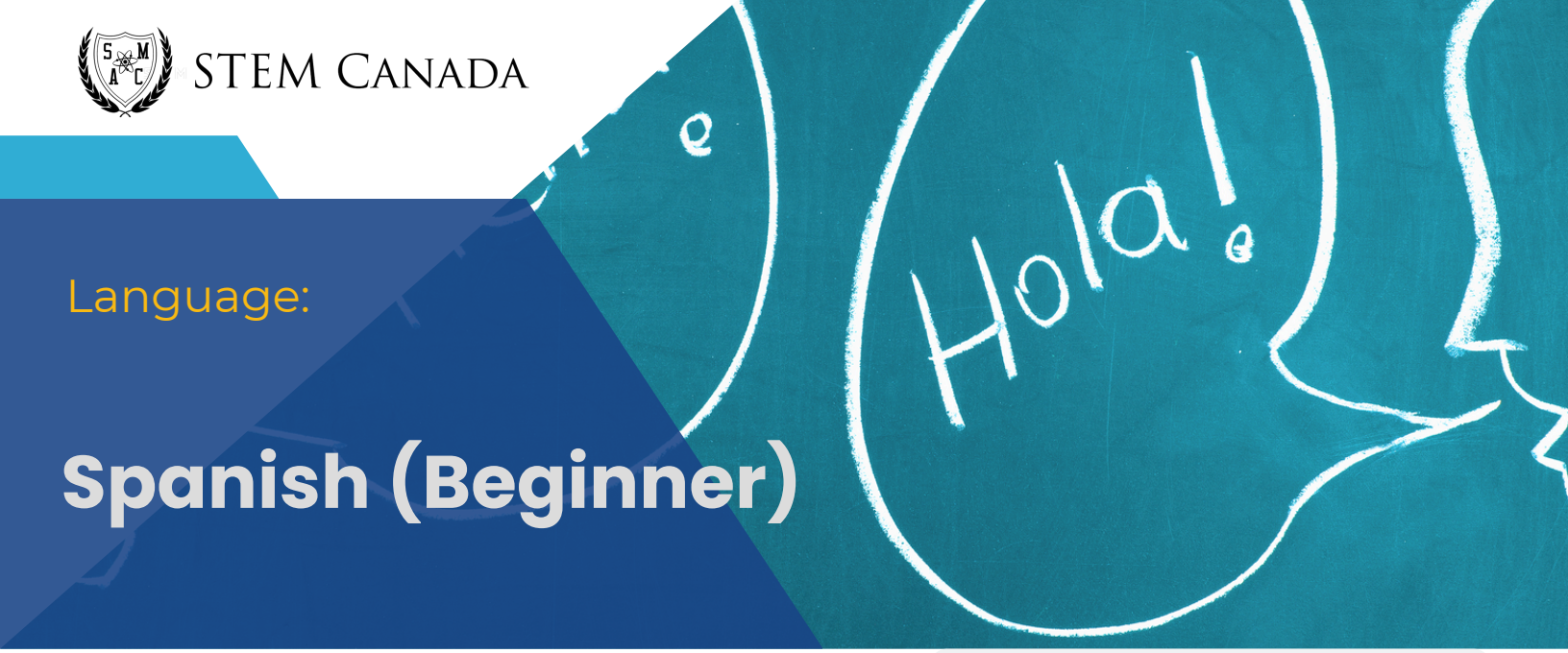
- Understand and interpret a variety of French texts.
- Demonstrate improved vocabulary and comprehension in French.
- Read French texts with fluency and accuracy.
- Appreciate the nuances and beauty of the French language.
- Approach new French texts with confidence and curiosity.

Register Now

(877) 822-0080

stemleadershipcanada.com/preu-stem

STEM CANADA



Language:

Spanish (Beginner)

Spanish

This Spanish course is designed for students aiming to teach the fundamentals of the Spanish language. The course covers vocabulary, grammar, pronunciation, and conversational skills.

All Ages

July 22 - 26
2:30 pm – 4:00 pm EST

** Students taught by more than one teacher according to age.*

Times above are in Eastern Time. Programming is available across all time zones. Please check additional programming times for other time zones on page 46.

Regular Price: $129.95
Early Bird Price before **July 5, 2024 :** $64.98

Course Bundles & Family Discount Available

CERTIFICATE OF COMPLETION WILL BE GIVEN

Learning Objectives:

- Vocabulary: Build a strong vocabulary base in Spanish.
- Grammar: Understand and apply Spanish grammar rules
- Pronunciation: Improve Spanish pronunciation and listening skills.
- Conversation: Develop conversational skills for everyday situations.
- Cultural Awareness: Learn about the cultures of Spanish-speaking countries.

Learning Outcomes:

By the end of this course, students will be able to:

- Use a wide range of Spanish vocabulary in conversations and writing.
- Apply grammar rules correctly in spoken and written Spanish.
- Pronounce Spanish words accurately and understand spoken Spanish.
- Engage in conversations on various topics in Spanish.
- Earn a Certificate of Completion, validating their proficiency in Spanish.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

Virtual Reality
IN PERSON

Virtual Reality
In Person VR LAB

The Virtual Reality (VR) class introduces students to the exciting world of virtual reality. The learning objective is to provide an understanding of VR technology, principles, and applications. Students will learn about VR hardware and software, the process of creating VR environments, using 360-degree video, and the potential uses of VR in various fields.

By the end of the class, students will be able to design and develop basic VR experiences and 360-degree video content, and understand the fundamentals of VR development.

Ages 8 - 16

** Students taught by more than one teacher according to age.*

Program Locations:

University of Toronto: July 22 - 26, Aug 5, Aug 5 - 9, or Aug 12-16, 2024
University of British Columbia: July 29 - Aug 2, Aug 5 - 9, or Aug 12-16, 2024
University of Calgary: August 5 - 9, 2024

Half Day (Morning 9am - 1 pm: $299.95 /wk (included: VR headset, shirt)
Full Day 9am - 5pm: $559.95/week
(Included in full day option: Lunch, VR Headset, Field Trip, Special Guests and Shirt provided)

Early Bird Price before **July 5, 2024: Half Day:** $269.95 **Full Day** $479.95

CERTIFICATE OF COMPLETION WILL BE GIVEN

COURSE REGISTRATION INCLUDES A VR HEADSET

Learning Objectives:

- Understand the basic principles and concepts of virtual reality.
- Learn about VR hardware and software components.
- Develop skills in creating VR environments and experiences.
- Gain competency in using 360-degree video technology.
- Explore the applications of VR in different fields, such as gaming, education, and healthcare.
- Understand the design and development process for VR content.

Learning Outcomes:

By the end of this course, students will be able to:

- Explain the principles and concepts behind virtual reality.
- Identify and describe the components of VR hardware and software.
- Design and develop basic VR environments and experiences.
- Create and edit 360-degree video content.
- Understand and apply the process of creating VR content.
- Explore the potential applications and impact of VR in various fields.

Register Now

(877) 822-0080
stemleadershipcanada.com/preu-stem

STEM CANADA

PROGRAM PRICING

VIRTUAL STEM SUMMER PROGRAMMING

HAPPY CANADA DAY

CANADA DAY SPECIAL

50% OFF

5 Days of Savings

July 1-5, 2024

Virtual Class Pricing - Promotions

Single Class — $64.98 ~~$129.95~~ /week

- 1 STEM Stream
- 1 Week of Programming
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

Family Bundle — $59 /week

- **2 or More Kids**
- **1 Class**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

*NOW SAVE BIG ON

CANADA DAY SPECIAL!

50% OFF UNTIL July 5th, 2024

Use coupon code: CANSAVE50

Class Bundles

French /Math — Save over 60%! — $99.96 ~~$259.95~~ /2 weeks

- **2 STEM Streams**
- 2 Weeks of Programming
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

5 Class Bundle — $55/Class with special — Space is limited — $274.98 ~~$549.95~~

- **5 Class**
- **5 Weeks of Programming**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

10 Class Bundle — $49/Class with special — Space is limited — $499.96 ~~$999.95~~

- **10 Classes**
- **5 Weeks of Programming**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

15 Class Bundle — Just $39/Class with special — Space is limited — $599.96 ~~$1,199.95~~

- **15 Classes**
- **5 Weeks of Programming**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

STEM CANADA

PROGRAM PRICING

VIRTUAL STEM SUMMER PROGRAMMING

Virtual Class Pricing

Single Class — $129.95 /week

- 1 STEM Stream
- 1 Week of Programming
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

Family Bundle — $99.95 /week

- **2 or More Kids**
- **1 Class**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

**REGULAR PRICE AFTER JULY 5th, 2024*

Class Bundles

French /Math — $259.95 /2 weeks

- **2 STEM Streams**
- 2 Weeks of Programming
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

5 Class Bundle — $549.95 /5 weeks

- **5 Class**
- **5 Weeks of Programming**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

10 Class Bundle — $999.95 /5 weeks

- **10 Classes**
- **5 Weeks of Programming**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

15 Class Bundle — $1,199.95 /5 weeks

- **3 Classes**
- **5 Weeks of Programming**
- Virtual Experience
- Certificate of Completion will be given
- All Class Resources
- Live Class with Instructor

STEM CANADA

ONTARIO,QUÉBEC, NUNAVUT
COURSE SCHEDULE

TIME/ DATE	11:00 am - 12:30 pm	12:45 pm - 2:15 pm	2:30 pm - 4:00 pm
July 15-19	Math Grade 2,3	Biochemistry Grade 3-6	Biochemistry Grade 7-11
	Math Grade 4,5	Neuroscience Grade 7-11	Neuroscience Grade 3-6
	Math Grade 6,7	C Programming Beginner Grade 7-11	C Programming Beginner Grade 3-6
	Math Pathways Grade 9	Python Beginner Grade 3-6	Python Beginner Grade 7-11
		Math Calculus	
July 22-26	Math Grade 2,3	Anime Beginner	Spanish Beginner
	Math Grade 4,5	Pathology	Human Physiology
	Math Grade 6,7	C # Programming Beginner Grade 3-6	C # Programming Beginner Grade 7-11
	Java Beginner Grade 3-6	Java Beginner Grade 7-11	Grade 8 Math
	Math Pathways Grade 9	Math Calculus	
July 29- Aug2	French Immer. Grade 2,3	*Electrical Engineering	Character Design
	French Immer. Grade 4,5	HTML / CSS Grade 3-6	HTML / CSS Grade 7-11
	French Immer. Grade 6- 8	Immunology	Artificial Intelligence
	C ++ Programming Beginner Grade 3-6	C ++ Programming Beginner Grade 7-11	*Robotics
	BioMedical Engineering	Math Advanced Functions	Grade 8 Math
		*Video Game Development part 1 (12:45pm-3:45pm)	
Aug 5-9	French Immer. Grade 2,3	Graphic Novel	Mechanical Engineering
	French Immer. Grade 4,5	Blender - 3D Animation	Video Editing Part 1
	French Immer. Grade 6- 8	Chemistry Grades 5-9	Astrophysics
		Math Advanced Functions	Pharmacology
		Aerospace Engineering	
Aug 12-16	Math Grade 2,3 part 2	Anime Advanced	Video Editing Part 2
	Math Grade 4,5 part 2	Python Advanced	Java Advanced
	Math Grade 6,7 part 2	Neuroscience Advanced	Biochemistry Advanced
	Grade 8 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Pathways Grade 9 part 2	*Mobile App Development Advanced(12:45pm-3:45pm)	
Aug 19-23	Math Grade 2,3 part 2	C # Programming Advanced	C ++ Programming advanced
	Math Grade 4,5 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Grade 6,7 part 2	French Immer. Grade 2,3	
	Grade 8 part 2	French Immer. Grade 4,5	
	Math Pathways Grade 9 part 2	French Immer. Grade 6- 8	
		*Video Game Development part 2 (12:45pm-3:45pm)	

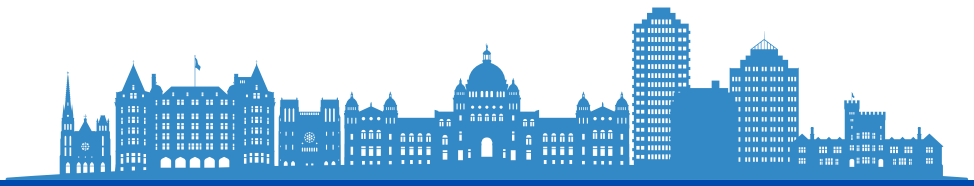
*** = THESE ARE PREMIUM COURSES THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.**

STEM CANADA

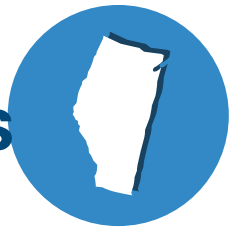
BRITISH COLUMBIA, YUKON
COURSE SCHEDULE

TIME/ DATE	8:00 am - 9:30 am	9:45 am - 11:15 am	11:30 am - 1:00 pm
July 15-19	Math Grade 2,3	Biochemistry Grade 3-6	Biochemistry Grade 7-11
	Math Grade 4,5	Neuroscience Grade 7-11	Neuroscience Grade 3-6
	Math Grade 6,7	C Programming Beginner Grade 7-11	C Programming Beginner Grade 3-6
	Math Pathways Grade 9	Python Beginner Grade 3-6	Python Beginner Grade 7-11
		Math Calculus	
July 22-26	Math Grade 2,3	Anime Beginner	Spanish Beginner
	Math Grade 4,5	Pathology	Human Physiology
	Math Grade 6,7	C # Programming Beginner Grade 3-6	C # Programming Beginner Grade 7-11
	Java Beginner Grade 3-6	Java Beginner Grade 7-11	Grade 8 Math
	Math Pathways Grade 9	Math Calculus	
July 29- Aug2	French Immer. Grade 2,3	*Electrical Engineering	Character Design
	French Immer. Grade 4,5	HTML / CSS Grade 3-6	HTML / CSS Grade 7-11
	French Immer. Grade 6- 8	Immunology	Artificial Intelligence
	C ++ Programming Beginner Grade 3-6	C ++ Programming Beginner Grade 7-11	*Robotics
	BioMedical Engineering	Math Advanced Functions	Grade 8 Math
		*Video Game Development part 1 (9:45am-12:45pm)	
Aug 5-9	French Immer. Grade 2,3	Graphic Novel	Mechanical Engineering
	French Immer. Grade 4,5	Blender - 3D Animation	Video Editing Part 1
	French Immer. Grade 6- 8	Chemistry Grades 5-9	Astrophysics
		Math Advanced Functions	Pharmacology
		Aerospace Engineering	
Aug 12-16	Math Grade 2,3 part 2	Anime Advanced	Video Editing Part 2
	Math Grade 4,5 part 2	Python Advanced	Java Advanced
	Math Grade 6,7 part 2	Neuroscience Advanced	Biochemistry Advanced
	Grade 8 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Pathways Grade 9 part 2	*Mobile App Development Advanced(9:45am-12:45pm)	
Aug 19-23	Math Grade 2,3 part 2	C # Programming Advanced	C ++ Programming advanced
	Math Grade 4,5 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Grade 6,7 part 2	French Immer. Grade 2,3	
	Grade 8 part 2	French Immer. Grade 4,5	
	Math Pathways Grade 9 part 2	French Immer. Grade 6- 8	
		*Video Game Development part 2 (9:45am-12:45pm)	

*** = THESE ARE PREMIUM COURSES THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.**



STEM CANADA



ALBERTA, NORTHWEST TERRITORIES
COURSE SCHEDULE

TIME/ DATE	9:00 am - 10:30 am	10:45 am - 12:15 pm	12:30 pm - 2:00 pm
July 15-19	Math Grade 2,3	Biochemistry Grade 3-6	Biochemistry Grade 7-11
	Math Grade 4,5	Neuroscience Grade 7-11	Neuroscience Grade 3-6
	Math Grade 6,7	C Programming Beginner Grade 7-11	C Programming Beginner Grade 3-6
	Math Pathways Grade 9	Python Beginner Grade 3-6	Python Beginner Grade 7-11
		Math Calculus	
July 22-26	Math Grade 2,3	Anime Beginner	Spanish Beginner
	Math Grade 4,5	Pathology	Human Physiology
	Math Grade 6,7	C # Programming Beginner Grade 3-6	C # Programming Beginner Grade 7-11
	Java Beginner Grade 3-6	Java Beginner Grade 7-11	Grade 8 Math
	Math Pathways Grade 9	Math Calculus	
July 29- Aug2	French Immer. Grade 2,3	*Electrical Engineering	Character Design
	French Immer. Grade 4,5	HTML / CSS Grade 3-6	HTML / CSS Grade 7-11
	French Immer. Grade 6- 8	Immunology	Artificial Intelligence
	C ++ Programming Beginner Grade 3-6	C ++ Programming Beginner Grade 7-11	*Robotics
	BioMedical Engineering	Math Advanced Functions	Grade 8 Math
		*Video Game Development part 1 (10:45am-1:45pm)	
Aug 5-9	French Immer. Grade 2,3	Graphic Novel	Mechanical Engineering
	French Immer. Grade 4,5	Blender - 3D Animation	Video Editing Part 1
	French Immer. Grade 6- 8	Chemistry Grades 5-9	Astrophysics
		Math Advanced Functions	Pharmacology
		Aerospace Engineering	
Aug 12-16	Math Grade 2,3 part 2	Anime Advanced	Video Editing Part 2
	Math Grade 4,5 part 2	Python Advanced	Java Advanced
	Math Grade 6,7 part 2	Neuroscience Advanced	Biochemistry Advanced
	Grade 8 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Pathways Grade 9 part 2	*Mobile App Development Advanced(10:45am-1:45pm)	
Aug 19-23	Math Grade 2,3 part 2	C # Programming Advanced	C ++ Programming advanced
	Math Grade 4,5 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Grade 6,7 part 2	French Immer. Grade 2,3	
	Grade 8 part 2	French Immer. Grade 4,5	
	Math Pathways Grade 9 part 2	French Immer. Grade 6- 8	
		*Video Game Development part 2 (10:45am-1:45pm)	

*** = THESE ARE PREMIUM COURSES THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.**

STEM CANADA

SASKATCHEWAN, MANITOBA
COURSE SCHEDULE

TIME/ DATE	10:00 am - 11:30 am	11:45 am - 1:15 pm	1:30 pm - 3:00 pm
July 15-19	Math Grade 2,3	Biochemistry Grade 3-6	Biochemistry Grade 7-11
	Math Grade 4,5	Neuroscience Grade 7-11	Neuroscience Grade 3-6
	Math Grade 6,7	C Programming Beginner Grade 7-11	C Programming Beginner Grade 3-6
	Math Pathways Grade 9	Python Beginner Grade 3-6	Python Beginner Grade 7-11
		Math Calculus	
July 22-26	Math Grade 2,3	Anime Beginner	Spanish Beginner
	Math Grade 4,5	Pathology	Human Physiology
	Math Grade 6,7	C # Programming Beginner Grade 3-6	C # Programming Beginner Grade 7-11
	Java Beginner Grade 3-6	Java Beginner Grade 7-11	Grade 8 Math
	Math Pathways Grade 9	Math Calculus	
July 29- Aug2	French Immer. Grade 2,3	*Electrical Engineering	Character Design
	French Immer. Grade 4,5	HTML / CSS Grade 3-6	HTML / CSS Grade 7-11
	French Immer. Grade 6- 8	Immunology	Artificial Intelligence
	C ++ Programming Beginner Grade 3-6	C ++ Programming Beginner Grade 7-11	*Robotics
	BioMedical Engineering	Math Advanced Functions	Grade 8 Math
		*Video Game Development part 1 (11:45am-2:45pm)	
Aug 5-9	French Immer. Grade 2,3	Graphic Novel	Mechanical Engineering
	French Immer. Grade 4,5	Blender - 3D Animation	Video Editing Part 1
	French Immer. Grade 6- 8	Chemistry Grades 5-9	Astrophysics
		Math Advanced Functions	Pharmacology
		Aerospace Engineering	
Aug 12-16	Math Grade 2,3 part 2	Anime Advanced	Video Editing Part 2
	Math Grade 4,5 part 2	Python Advanced	Java Advanced
	Math Grade 6,7 part 2	Neuroscience Advanced	Biochemistry Advanced
	Grade 8 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Pathways Grade 9 part 2	*Mobile App Development Advanced(11:45am-2:45pm)	
Aug 19-23	Math Grade 2,3 part 2	C # Programming Advanced	C ++ Programming advanced
	Math Grade 4,5 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Grade 6,7 part 2	French Immer. Grade 2,3	
	Grade 8 part 2	French Immer. Grade 4,5	
	Math Pathways Grade 9 part 2	French Immer. Grade 6- 8	
		*Video Game Development part 2 (11:45am-2:45pm)	

*** = THESE ARE PREMIUM COURSES THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.**

STEM CANADA

NEW BRUNSWICK, NOVA SCOTIA, PRINCE EDWARD ISLAND, LABRADOR

COURSE SCHEDULE

TIME/ DATE	12:00 pm - 1:30 pm	1:45 pm - 3:15 pm	3:30 pm - 5:00 pm
July 15-19	Math Grade 2,3	Biochemistry Grade 3-6	Biochemistry Grade 7-11
	Math Grade 4,5	Neuroscience Grade 7-11	Neuroscience Grade 3-6
	Math Grade 6,7	C Programming Beginner Grade 7-11	C Programming Beginner Grade 3-6
	Math Pathways Grade 9	Python Beginner Grade 3-6	Python Beginner Grade 7-11
		Math Calculus	
July 22-26	Math Grade 2,3	Anime Beginner	Spanish Beginner
	Math Grade 4,5	Pathology	Human Physiology
	Math Grade 6,7	C # Programming Beginner Grade 3-6	C # Programming Beginner Grade 7-11
	Java Beginner Grade 3-6	Java Beginner Grade 7-11	Grade 8 Math
	Math Pathways Grade 9	Math Calculus	
July 29- Aug2	French Immer. Grade 2,3	*Electrical Engineering	Character Design
	French Immer. Grade 4,5	HTML / CSS Grade 3-6	HTML / CSS Grade 7-11
	French Immer. Grade 6- 8	Immunology	Artificial Intelligence
	C ++ Programming Beginner Grade 3-6	C ++ Programming Beginner Grade 7-11	*Robotics
	BioMedical Engineering	Math Advanced Functions	Grade 8 Math
		*Video Game Development part 1 (1:45pm-4:45pm)	
Aug 5-9	French Immer. Grade 2,3	Graphic Novel	Mechanical Engineering
	French Immer. Grade 4,5	Blender - 3D Animation	Video Editing Part 1
	French Immer. Grade 6- 8	Chemistry Grades 5-9	Astrophysics
		Math Advanced Functions	Pharmacology
		Aerospace Engineering	
Aug 12-16	Math Grade 2,3 part 2	Anime Advanced	Video Editing Part 2
	Math Grade 4,5 part 2	Python Advanced	Java Advanced
	Math Grade 6,7 part 2	Neuroscience Advanced	Biochemistry Advanced
	Grade 8 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Pathways Grade 9 part 2	*Mobile App Development Advanced (1:45pm-4:45pm)	
Aug 19-23	Math Grade 2,3 part 2	C # Programming Advanced	C ++ Programming advanced
	Math Grade 4,5 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Grade 6,7 part 2	French Immer. Grade 2,3	
	Grade 8 part 2	French Immer. Grade 4,5	
	Math Pathways Grade 9 part 2	French Immer. Grade 6- 8	
		*Video Game Development part 2 (1:45pm-4:45pm)	

*** = THESE ARE PREMIUM COURSES THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.**

STEM CANADA

NEWFOUNDLAND
COURSE SCHEDULE

TIME/ DATE	12:30 pm - 2:00 pm	2:15 pm - 3:45 pm	4:00 pm - 5:30 pm
July 15-19	Math Grade 2,3	Biochemistry Grade 3-6	Biochemistry Grade 7-11
	Math Grade 4,5	Neuroscience Grade 7-11	Neuroscience Grade 3-6
	Math Grade 6,7	C Programming Beginner Grade 7-11	C Programming Beginner Grade 3-6
	Math Pathways Grade 9	Python Beginner Grade 3-6	Python Beginner Grade 7-11
		Math Calculus	
July 22-26	Math Grade 2,3	Anime Beginner	Spanish Beginner
	Math Grade 4,5	Pathology	Human Physiology
	Math Grade 6,7	C # Programming Beginner Grade 3-6	C # Programming Beginner Grade 7-11
	Java Beginner Grade 3-6	Java Beginner Grade 7-11	Grade 8 Math
	Math Pathways Grade 9	Math Calculus	
July 29- Aug2	French Immer. Grade 2,3	*Electrical Engineering	Character Design
	French Immer. Grade 4,5	HTML / CSS Grade 3-6	HTML / CSS Grade 7-11
	French Immer. Grade 6- 8	Immunology	Artificial Intelligence
	C ++ Programming Beginner Grade 3-6	C ++ Programming Beginner Grade 7-11	*Robotics
	BioMedical Engineering	Math Advanced Functions	Grade 8 Math
		*Video Game Development part 1 (2:15pm-5:15pm)	
Aug 5-9	French Immer. Grade 2,3	Graphic Novel	Mechanical Engineering
	French Immer. Grade 4,5	Blender - 3D Animation	Video Editing Part 1
	French Immer. Grade 6- 8	Chemistry Grades 5-9	Astrophysics
		Math Advanced Functions	Pharmacology
		Aerospace Engineering	
Aug 12-16	Math Grade 2,3 part 2	Anime Advanced	Video Editing Part 2
	Math Grade 4,5 part 2	Python Advanced	Java Advanced
	Math Grade 6,7 part 2	Neuroscience Advanced	Biochemistry Advanced
	Grade 8 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Pathways Grade 9 part 2	*Mobile App Development Advanced(2:15pm-5:15pm)	
Aug 19-23	Math Grade 2,3 part 2	C # Programming Advanced	C ++ Programming advanced
	Math Grade 4,5 part 2	Math Calculus part 2	Math Advanced Functions part 2
	Math Grade 6,7 part 2	French Immer. Grade 2,3	
	Grade 8 part 2	French Immer. Grade 4,5	
	Math Pathways Grade 9 part 2	French Immer. Grade 6- 8	
		*Video Game Development part 1 (2:15pm-5:15pm)	

*** = THESE ARE PREMIUM COURSES THAT COME WITH SHIPPED EQUIPMENT AND RESOURCES, THERE IS AADDITIONAL $49.00 CHARGE ON TOP OF THE INITIAL COURSE FEE.**

APPLY NOW

STEM CANADA

PREPARE FOR YOUR FUTURE!

PRE-UNIVERSITY STEM INNOVATION PROGRAM ON CAMPUS

Connect with us or register today. Don't miss the opportunity to experience university.

For Students Aged 10 - 17 | Grades 5 - 11

Program Locations:

- University of Toronto
- University of Calgary
- University of British Columbia

Contact Us: preustem@stemcanada.ca (877) 822-0080

July 22 - August 16, 2024
APPLY NOW

SEE OUR IMPACT
(CLICK THE LINK TO VIEW VIDEO)

(877) 822-0080

stemleadershipcanada.com/preu-stem