



FOR CHILDREN  
AGED 6 TO 13

2017

SCIENCE AND  
ENGINEERING  
**SUMMER CAMP**

GUIDELINES

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ENGINEERING CAMP GUIDELINES**

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## CIADI SUMMER SCIENCE AND ENGINEERING CAMP GUIDELINES

The Concordia Institute of Aerospace Design and Innovation (CIADI) and Concordia's Faculty of Engineering and Computer Science (ENCS) and are excited to offer the CIADI Summer Science and Engineering Camp. We will be offering, FOR CHILDREN AGED 6 TO 13, an exciting series of activities, experiments and off-site visits that will pique your curiosity in science and engineering!

### STAFF

Our camp will be staffed by university students and staff with prior experience as counselors and/or teaching.

### COMMUNICATION INFORMATION

In case of an emergency or illness, or should you wish to contact the camp during the camp day, please call during camp hours: Monday to Friday from 9:00 a.m. to 4:00 p.m.

### SUMMER CAMP OFFICE

1515 Ste. Catherine West, room EV.12.108  
Tel.: 514-848-2424 ext. 7905 or ext. 2338

If there are specific concerns (i.e. registration info, payments, concerns about camp) please contact Jayne Claassen.

Drop-off and pick-up times are good times to briefly discuss any pressing issues. If you would like to discuss a private matter, please contact CIADI to schedule an appointment.

Tel.: 514-848-2424 ext. 2338 or 7905

Email: [jayne.claassen@concordia.ca](mailto:jayne.claassen@concordia.ca)

### HOURS & LOCATION

Monday to Friday 9:00 a.m. - 4:00 p.m.

Extended hours: 8:00-9:00 am and 4:00-5:00 pm

Concordia University, EV Building, 1515 Ste.

Catherine St. West

Montreal, Quebec H3G 1M8

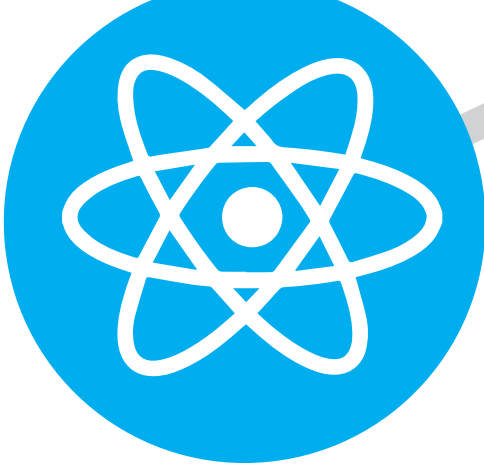
Room EV.2.260

### DAILY ACTIVITIES AT CAMP

The program schedule is available at the end of this document (subject to minor modifications). The camp will provide an enriching experience through experiments, outdoor play, and special events.

### FIRST DAY CHECK-IN

On the first day of camp, check-in will begin at 8:00 a.m. Parents are encouraged to sign their child(ren) in on the first day of camp. If you are unable to pick up your child on any day of the week, please inform our staff, and a note will be made on the sign-in/out sheet.



## **EXTENDED CARE SERVICE**

Campers using the extended care service must be registered for the program. The extended care program will be available from 8:00-9:00 a.m. & 4:00-5:00 p.m. All parents/guardians are required to sign their child in and out, for safety and control purposes. For security reasons, only those authorized may pick up a child. If someone else is picking up your child, please inform the camp office upon arrival.

- Morning extended care: 8:00-9:00 a.m.  
Afternoon extended care 4:00-5:00 p.m.  
(\$35 per week for morning and/or afternoon, \$8 per day)
- NOTE: Extended care closes at 5:00 p.m. Please note that a late fee of \$5 per interval of 10 minutes will be charged after 5:00 p.m. All fees can be paid by cheque only at the end of the camp.
- Drop-off: Parents can drive in front of the entrance of the EV Building (corner Ste. Catherine and Guy) to drop off their child between 8:00 and 9:00 am with the summer camp staff members who will escort the child inside.

- Departures: Upon departure, parents or guardians will be required to sign their child out for the day. Only those who are authorized to pick up your child will be allowed to sign a child out. Those who are authorized to pick up your child will be asked to present a valid photo ID when signing your child out. Only the authorized parents or legal guardians will be allowed to add someone to the list of authorized people. Any such additions must be arranged with the camp administration in advance. Parents who arrive early will be asked to wait for their child in the athletic complex lobby. Please inform the camp coordinator if your child(ren) is allowed to leave camp on their own at the end of the day.

## **ABSENCES & LATE POLICY**

If your child is going to be late or absent from camp for the day, you are required to call the office before 9:00 a.m. Please leave a message with your name and your child's name as well as the days they will be absent.

Attendance will be taken at the beginning of the day and the counselors will report any absences so that the camp can confirm a child's absence or determine where the child is. If there is no phone message, you will be contacted regarding your child's absence. This will help us ensure the safety of your child.

## MEDICAL

If your child has any medical conditions (asthma, allergies etc.) or any changes to a medical condition, we need to be notified at the beginning of camp. Children must always have their medication with them. For safety reasons, they will not be allowed to attend camp without their medication. Your child must be able to administer their own medication without assistance.

All medication must be accompanied by clear instructions on when it needs to be taken and how it is to be administered.

If your child becomes sick or has a medical emergency while at camp, you will be contacted and, if deemed appropriate, may decide whether or not to come and pick them up. Should there be an emergency involving your child, you will be contacted as soon as possible following the notification of any necessary emergency personnel.

Severe weather, heat, sun and rain: In order for children to enjoy each day, they should arrive with appropriate items. This can include: rain gear, a sweater or hoodie for cool weather, sunscreen, etc. All items should be labeled with your child's name. Staff will monitor the children in their group and remind children to reapply sunscreen if needed. During severe weather conditions, programs will be modified to ensure camper safety. In-class activities will be provided in order to accommodate programming changes. Depending on the age of participants, activities may continue outside during light rain. Staff will encourage the frequent drinking of water throughout the day.



## SICKNESS POLICY

If your child(ren) is sick during camp, you will be contacted and asked to come and pick them up. If you are not available, we will call the emergency contact. If your child is sick, please refrain from sending them to camp.

## CHILDREN SHOULD BRING THE FOLLOWING ITEMS

Backpack (labeled with their name): A waterproof and durable backpack should be provided for your child. Please ensure the backpack is an appropriate size for your child and that his/her name is written on the inside of the backpack.

**Lunch and snacks** (lunch box labeled with their name).

- We ask you to send your child with lunch and healthy snacks for the day. The camp is a nut-free. Please refrain from sending your child with lunches and snacks that may contain nuts. Campers are not allowed to share food.
- Lunch (nut-free) and snacks (for morning and afternoon)
- Morning snack 10:30 -11:00 a.m.
- Lunch 12:00 – 1:00 p.m.
- Afternoon snack 3:00-3:30 p.m.



## **Clothing**

- All campers will receive a complimentary t-shirt (subject to budget availability)
- All campers are expected to wear camp t-shirts each day of the camp
- It is important for your child to come with the appropriate clothing for the sports in which they will be participating. Children should bring their running shoes as well as the shoes for the appropriate sport on days where they will go to the Loyola sports camp.

Please make sure that all your child's clothing is clearly identified. We ask that children bring sunscreen to the camp. Children should also come to camp with a water bottle as they will be active and will need to stay hydrated. We will inform participants about what to bring during those outings.

## **PERSONAL ITEMS**

Children should not bring electronic devices or anything of value to camp. The camp will not be responsible for any lost, broken or stolen items. Any items that are brought to camp must have the camper's name clearly indicated on them.

## **FIELD TRIPS AND OUTINGS**

During the summer camp, a few field trips are planned. These are indicated in the schedule. Outings may be added or canceled if necessary; parents will be notified in such cases.

## **BEHAVIOUR**

- All groups must meet and stay together as a group each morning.
- Basic behavioural expectations are explained to all the participants. Campers must respect these guidelines at all times.
- All members of the group must listen to the group leader's instructions.
- All members of the group are expected to treat their peers with respect and allow them to enjoy themselves.
- Physical contact of any kind is not allowed, and will be reported to a senior member of the staff.

In case of an emergency, our camp coordinator or another staff member will contact parents or legal guardians as identified on the registration form. It is important to complete and update your medical forms - including emergency contacts - prior to the first day of camp.

Campers are expected to behave in a way that makes the whole group feel comfortable and safe. Bullying of any sort will not be tolerated. Camps will function on a three-strike policy. The first strike will involve the leaders talking to the child and also informing the parent/guardian about the incident. Children who get a second strike will meet with the camp coordinator, who will discuss the matter with you. A third strike will result in dismissal. Strikes will be given at the leaders and the camp coordinator's discretion.

## PARENTAL CONDUCT

Waivers: All parents are required to sign a *Parental Release and Waiver of Liability*. The waiver has to be signed and delivered to the summer camp office **before** the first day of camp:

By e-mail: [jayne.classen@concordia.ca](mailto:jayne.classen@concordia.ca)  
[maried@encs.concordia.ca](mailto:maried@encs.concordia.ca)

By fax: 514-848-7890

In person: 1515 Ste. Catherine West,  
room EV. 12.108



## PAYMENT POLICY

Payment in full is required at the time of registration. Payment must be made by cheque only.

## REFUNDS & CANCELLATION POLICY

The occurrence of the camp is subject to there being sufficient registration to render the running of the camp feasible, at Concordia University's sole discretion. Concordia University shall be entitled to cancel the camp should it be of the opinion that continuing the camp's activities is unreasonable, for financial reasons or otherwise. Should the camp be cancelled, any amounts paid for services not rendered shall be reimbursed. Concordia University shall not be liable for closing the camp for any reason.

No refunds will be provided for any reason unless the camp is cancelled by Concordia University, as more fully set forth above.

Campers who are unable attend camp due medical reasons will require a medical certificate.

Our leaders seek to provide an excellent experience for your child during their time at camp. If you have an issue that needs to be addressed, we invite you to discuss this with the leaders in a manner that is appropriate and respectful. If you would rather discuss an issue with a coordinator, please feel free to do so. Our aim is to exceed your expectations with the programs that we offer. If you have any concerns, please feel free to contact the summer camp coordinator.

# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

<b>WEEK 1</b>	<b>July 3-7</b>	<b>Room EV.2.260</b>			
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Ice Breaking activity. (BINGO) and Teambuilding activity (Spaghetti towers)	Catapult challenge	Lava lamps activity	How to build a Terrarium? Seed germination in foam cups	Outing: Biodome
10:30-11:00	Snack	Snack	Snack	Snack	
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	
12:00-1:00	Lunch	Lunch	Lunch	Lunch	
1:00-2:00	Alka Seltzer Rockets Crazy colours in Milk	Yeast cells inflating balloons (CO <sub>2</sub> product of respiration)	Jumping salt using speakers of phones to create music	Sodium Polyacrylate diapers polymer magic Ghost water absorption Instant snow polymer	
2:00-3:00					
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up





# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

<b>WEEK 2 July 10-14 Room EV.2.260</b>					
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Bingo & Spider man activity challenge and power point	Tomato sphere growing seeds that have been in outer space	Slime from Corn starch, food colouring and shaving soap	Balloon Rockets How far will it fly? paper planes Parachute design	Outing: Planetarium
10:30-11:00	Snack	Snack	Snack	Snack	
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	
12:00-1:00	Lunch	Lunch	Lunch	Lunch	
1:00-2:00	Alum crystals Exploring space with Minecraft Raspberry pie activity	Observing coloured water rising in celery stems or iris flowers observed following day capillary action.	Extracting strawberries DNA Lab activity	Dry Paper under water Collapsing pop can	
2:00-3:00	Butterflies in space	Jumping colours	Blobs in a bottle	DIY Motion Sand	
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up



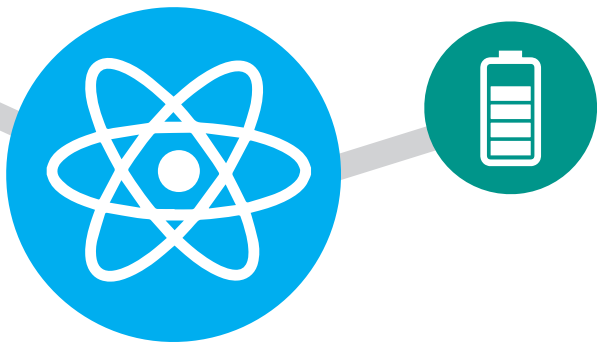
# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

<b>WEEK 3 July 17-21 Room EV.12.163</b>					
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Bingo and News papers towers  Mars, Stars and the Universe	Paper Chromatography colour separation in smarties	A lemon cell NACE kit Lab activity	Magnet Madness activity Electromagnet paper roll and coil	Outing: Insectarium
10:30-11:00	Snack	Snack	Snack	Snack	
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	
12:00-1:00	Lunch	Lunch	Lunch	Lunch	
1:00-2:00	Continue space activity	Sticky plungers Egg into a flask	Disappearing Coin (light) Apparent depth	Sticky Balloons Static electricity	
2:00-3:00	Invisible Glass	Transfer of Sound Energy	Raspberry Pie and Robotics	Raspberry Pie and Robotics	
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up



# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

<b>WEEK 4 July 24-28 Room EV.12.163</b>					
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Bingo&News paper tower building  Feast for the senses Activity	Bright Lights Big Science Bright Light Machine activity	Colour Mixing activity	Water filtration activity using alum	Outing: McGill Redpath Museum
10:30-11:00	Snack	Snack	Snack	Snack	
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	
12:00-1:00	Lunch	Lunch	Lunch	Lunch	
1:00-2:00	Bernoulli's principal Blowing up a plastic bag and suspension of ping pong ball using a blow dryer	Weather: Cloud formation in a bottle Tornado in a bottle (sick science)	Egg into a flask Drag Racing Cups	Collapsing Soda can Drag Racing cups Colourful Convection current	Density of different liquids. Layered liquids.
2:00-3:00	Robotics	Robotics	Robotics	Robotics	
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up



# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

<b>WEEK 5 July 31-August 4 Room EV.2.260</b>					
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Science activities: Bouncy Polymer Chemistry	Action and reaction water rocket.	Science activities: Effect of acid rain on seed germination	Science activities: Reaction times using meter sticks	Outing: Visit to Canadian Space Agency
10:30-11:00	Snack	Snack	Snack	Snack	
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	
12:00-1:00	Lunch	Lunch	Lunch	Lunch	
1:00-2:00	Yeast inflates balloons. Gas in pop cans.	Action and Reaction Balloon Rocket.	Crazy Crystal Creations	Electrolyte Challenge activity.	Day & night. Seasonal Changes. Eclipse by the moon Earth Science
2:00-3:00	Space Concordia demo on Rockets	Sergui Mokhov and Miao Song: Motion Capture-Based Art with ISS	How do we separate the inseparable? TED lessons (Magnets)	Circuits. A lemon cell	Density of solids & floating egg
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up



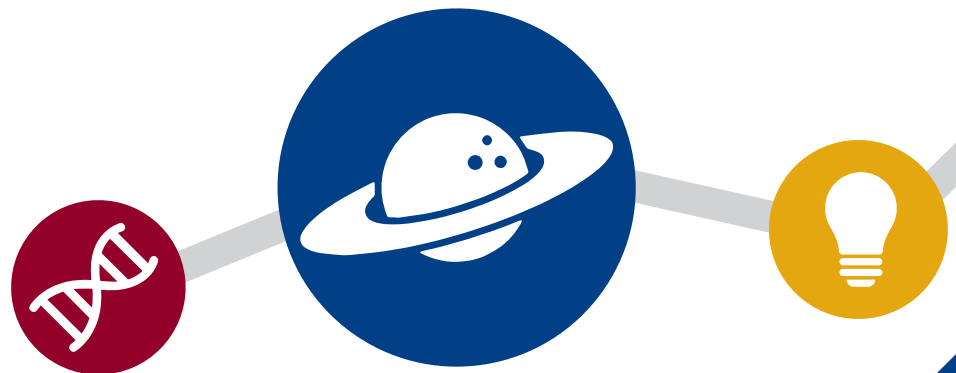
# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

<b>WEEK 6 August 7-11 Room EV.2.260</b>					
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Bright Light Machine	Magnet Madness	Electromagnet. Electric motor & generator.	How far will it fly? Parachute design	Outing: Cosmodome
10:30-11:00	Snack	Snack	Snack	Snack	
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	
12:00-1:00	Lunch	Lunch	Lunch	Lunch	
1:00-2:00	Dancing Salt. Sounding Board Pitch & Frequency	Colour Mixing.	Bernoulli's principle. Lifting by blowing. Antigravity funnel Suspended ping pong ball, etc.	Catapult Challenge	
2:00-3:00	Space Concordia demo on Cubesat	Dr. Chris Skonieczny. Robotics demo	Design and Computation Arts	Marinvent Flight simulator	Rotating Water Bottle. To show how rotating water can cause motion. Falling pennies
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up



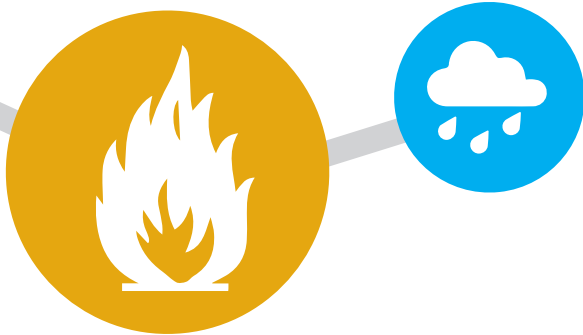
# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

<b>WEEK 7 August 14-18 Room EV.12.163</b>					
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Refraction through a bottle.  Feast for the senses	Bright Light Machine	Hooks & Ladders. Trace life cycle of Pacific salmon	Clothespins predators or Oh Deer. Net Gain, net effect	Outing: Athletic Activities at Loyola
10:30-11:00	Snack	Snack	Snack	Snack	Snack
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
12:00-1:00	Lunch	Lunch	Lunch	Lunch	Lunch
1:00-2:00	Building a terrarium	Science activities: Darwin's finches	Feast for the Senses	Grasping with straws (make a robot hand) or McGill Robot kit or Rube Goldberg activity	Extracting strawberry DNA
2:00-3:00	Space Concordia demo on robotics	African animal Math	How far will it fly? Birds Wings adaptations	Continued	Here Today, Gone Tomorrow
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up



# CIADI SUMMER SCIENCE AND ENGINEERING CAMP SCHEDULE

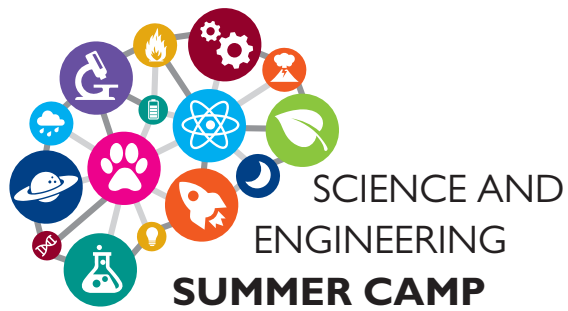
<b>WEEK 8 August 21-25 Room EV2.260</b>					
<b>Time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00-9:00	Daycare	Daycare	Daycare	Daycare	Daycare
9:00-10:30	Arkive school museum preparation. Opposable thumbs	Science activities: Brazil wild life film script	Climate change activity	Dinner at the Reef	Science Magic Show
10:30-11:00	Snack	Snack	Snack	Snack	Snack
11:00-12:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
12:00-1:00	Lunch	Lunch	Lunch	Lunch	Lunch
1:00-2:00	Human Impacts on The Environment	Endangered species Bingo	Turtle Life cycle	Marvelous Minibeasts. Design a species	Preparing the science camp museum display
2:00-3:00	An Introduction to Endangered Species. What is an endangered species Or OH deer activity	Lego Robotics	Design an Invasive species	Web of wild life and start preparing exhibition	Hosting: family and friends visit exhibition
3:00-4:00	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's	Outdoor free play at Grey Nun's
4:00	Pick up	Pick up	Pick up	Pick up	Pick up





**FACULTY OF ENGINEERING  
AND COMPUTER SCIENCE**

Concordia Institute of  
Aerospace Design and Innovation



let's talk  science