

Discovery Western

2018 Spring Club – Grades 6-8





Welcome to Spring Club

We are very excited you have decided to participate in the 2018 Spring Club with Western Engineering Outreach. This 4-week club will give you the opportunity to learn about science, technology, engineering and mathematics through hands-on projects and games. Below is some important information to help you prepare for your adventure with us. If you have any questions or comments please feel free to contact us at 519-661-2111, ext. 88826 or discover@uwo.ca.


Drop-off and Pick-up Policy

Drop-off and pick-up will take place in the **Spencer Engineering Building, Room 3109** at Western University. **Drop-off is at 1:00 p.m. and pick-up is at 3:00 p.m.** Parents and/or guardians are required to sign participants in and out each session, providing Government issued photo ID at pick-up. Only those indicated on the registration form will be permitted to sign children out. Free parking is available in the Springett Lot, diagonally across from the Spencer Engineering Building. We have linked Western University's campus map here for your convenience - <http://www.geography.uwo.ca/campusmaps/images/map/westernandaffiliates.pdf>.

Schedule		
Session	Topic	Activities
June 2	Chemical Engineering	Students will investigate the engineering design process and the materials used in packaging by designing and testing a package that can protect a snack from heat and water. After doing this activity, students should understand the basic engineering involved in designing food packaging, including constraints on materials, transportation, and costs. 
June 9	Software & Electrical Engineering	Students will be introduced to micro:bits, a small interactive circuit which is programmed with drag-and-drop coding on the computer. Students will be presented with several challenges to complete in teams. 
June 16	Chemical, Green Process & Civil Engineering	Students work in teams to analyze an "oil spill" in the classroom, then design, build, and test a system to first contain, and then remove the oil from the water. Students select from everyday items to build their oil containment and clean-up systems, and present their findings to the group.

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June 23	Mechanical Engineering & Parents Week	Students will be exploring forms of energy and the law of conservation of energy. Students will then take this knowledge and apply it when designing a spinning top. The goal is to have the top spin for a minimum of 10 seconds in a contained area. Parents are welcome to join the activities this week and work along with their students to complete the activity. 

Please note: If you are unable to attend a particular session please contact us via email or phone.

Western Engineering Outreach

Spencer Engineering Building, Room 2081

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