



LEAP INTO YOUR FUTURE

- Chemical and Bioengineering
- Civil and Environmental Engineering
- Electrical and Biomedical Engineering
- Engineering and Management
- Engineering Physics and Energy Technology
- Materials Science Engineering
- Mechanical Engineering
- Mechatronics and Robotics
- Software Engineering and Introduction to Game Design



LEAP 2010
Learning Enrichment
Advancement Program

FOR STUDENTS ENTERING
GRADES 9-12 IN SEPT 2010
leap.mcmaster.ca

**GET A HEADSTART
ON FIRST YEAR ENG!**

Lighten your Mac Eng. first year course load.

Gain valuable engineering experience for first year

THIS SUMMER AT LEAP!

WHY LEAP?

- Experience the exciting world of engineering in a fun environment!
- LEAP focuses on expanding a student's knowledge in a creative learning environment that is unlike any high school classroom
- Program incorporates activities that will develop leadership skills, ingenuity, creativity and perseverance supported by solid technical knowledge
- Enables students to develop solutions to complex multifaceted problems
- Learn lifelong problem-solving skills using real-life situations
- Students can take advantage of the HEADSTART program to lighten their course load in Mac Eng year 1
- LEAP enables students with similar interests to interact and learn together
- Develop valuable skills for your first summer ENG job

LEAP SESSIONS

- **Session 1: July 5- July 16**
- **Session 2: July 19-July 30**
- **Session 3: August 3- August 13**

HEADSTART OPTION

Earn advanced course standings and valuable experience for Mac Eng year 1 by combining LEAP sessions with the HEADSTART option. See the information below and the web site for more details.

BENEFITS

- First year engineering course load is reduced by earning advanced standing in Mac Eng year 1
- Develop skills which can be immediately applied to excel in year 1
- Establish advanced problem-solving and presentation skills
 - High faculty-to-student ratio

- Meet engineering peers, professors and teaching assistants
- Learn about all that the McMaster campus has to offer

ENG 1P03

(Headstart session one, July 5-July 23)

- Apply the engineering design process to analyze and solve challenging problems both individually and in groups
- Learn how to communicate the results both verbally and in writing with the help of professors, teaching assistants, and peers
- Understand the role of the professional engineer and their responsibilities within society

ENG 1C03

(Headstart session two, July 26- August 13)

- Learn creative sketching skills to draw two and three dimensional objects by hand
- Convert simple sketches into two and three dimensional CAD drawings
- Create realistic CAD models of functioning systems

“LEAP is a great way to learn about engineering and socialize with students of various age groups that have similar interests.”

Arpit Bhandari, LEAP Headstart Student, 2009

If you have any questions please contact
905-525-9140 x 24906 or
vespi@mcmaster.ca

The registration form is available at
leap.mcmaster.ca

