



UNIVERSITY OF  
TORONTO

# YSP

YOUTH SUMMER  
PROGRAMS  
2014



Faculty of Law | Faculty of Medicine





# DISCOVER THE YSP

This summer, step into the University of Toronto and explore the world of law and medicine.

2 UNIVERSITY OF TORONTO

4 LAW YSP

6 MED YSP

8 STUDENT LIFE

# 187 YEARS IN THE MAKING

The University of Toronto is  
Canada's largest and most prestigious  
institution of higher learning.

Over the past 187 years, the University of Toronto has established itself as a world class research institution with 17 schools and faculties, 10 fully affiliated teaching hospitals, 19 graduate institutions, and 75 PhD programs. Its accomplished alumni include four Canadian Prime Ministers and six Nobel Prize winners.

With an annual enrollment of over 70,000 students, including more than 7,000 international students, the University is Canada's largest educational institution and continues to be the nation's leader in higher learning and research.

Founded in 1827  
Canada's premier university  
Six Nobel Prize winning graduates



## FACULTY OF MEDICINE

Founded in 1843, the Faculty of Medicine catapulted onto the world stage with Sir Frederick Banting and Charles Best's discovery of insulin in the 1920s. In the 1950s, the implantable cardiac pacemaker was invented at the University. In recent years, the Faculty has led the way in the quest to link genes to disease, having identified genes responsible for muscular dystrophy, cystic fibrosis, Tay-Sachs, congenital blindness, Alzheimer's disease, and the T-cell receptor function relevant to immune disease.

Today, the Faculty of Medicine ranks among the top academic medicine institutions in the world, whether measured in peer-reviewed publications, number of PhD candidates and post-doctoral trainees, or research funding totals. The Faculty has over 5,000 faculty members and 6,000 students, and with its hospital partners, the University of Toronto is the largest research entity in Canada, and one of the largest in North America.

## FACULTY OF LAW

Established in 1887, the Faculty of Law is one of the oldest professional faculties at the University of Toronto. One of the world's great law schools, the Faculty has a dynamic academic and social community with more than 50 full-time faculty members, 15-25 distinguished short-term visiting professors from the world's leading law schools, and 600 undergraduate and graduate students.

The Faculty's rich academic programs are supplemented by its many legal clinics and public interest programs, and its close links to more than 6,000 alumni, who enjoy rewarding careers in every sector of Canadian society and remain involved in many aspects of life at the law school.

# LAW YSP

Step into the shoes of a lawyer and engage in complex legal simulations



During the Law YSP, students in grades 10–12 or their equivalent, spend between one and six weeks at the Faculty of Law discussing legal concepts, learning about the realities of the Canadian legal system, and applying their knowledge in a variety of stimulating culminating activities.

In addition to the enriching academic curriculum taught by law students and guests from the justice sector, students experience a taste of university residence life while staying at New College and participating in supervised events that showcase the city of Toronto (see page 8 for details).

The LAW YSP features six week-long modules in the areas of Criminal Law (offered twice), Corporate Law, International Law, Civil Litigation, Entertainment & Media Law, and Rights & Freedoms Law. Through lectures, interactions with leading lawyers and other professionals, fieldtrips to justice institutions, and culminating activities including mock trials and negotiations, each module delivers a thorough, balanced understanding of legal concepts and theories and an introduction to legal practise and advocacy.

## During the Law YSP, you will:

- Immerse yourself in the practice of law
- Share ideas with other high school students from around the world
- Go behind the scenes at some of Canada's largest courts and law firms
- Hone your debating and analytic skills, and start “thinking like a lawyer”
- Receive valuable academic enrichment and career guidance

## COURSE MODULES

### CRIMINAL LAW

#### *The Prosecution and Defence of Murder*

Contrary to the popular portrayal of criminal law presented in bestselling novels and Hollywood movies, in this module students learn about the realities of practicing criminal law by immersing themselves in the proceedings of a murder trial. In preparation for the culminating mock trial, students learn how to develop a legal strategy, prepare and examine witnesses, and deliver persuasive arguments in a courtroom setting.

### CORPORATE LAW

#### *Big Business, Controversy, and the Law*

What is a corporation? What are its legal responsibilities and obligations? The relationship between corporations and the law is a complex one, often surrounded by significant degrees of controversy. During this module, students engage with leading corporate lawyers and experts, as well as visit top Canadian business law firms. They immerse themselves in a complex legal simulation, while learning about mergers and acquisitions, contract drafting, negotiation and corporate social responsibility.

### RIGHTS & FREEDOMS LAW

#### *Fight for Your Rights*

The Canadian Charter of Rights and Freedoms entrenches Canadians' rights as citizens and affords protection against the state. However, the rights of individuals are limited when they infringe upon the rights of others. In order for rights to have value, citizens must know how to effectively exercise them. In this module students develop oral and written advocacy, explore landmark Charter cases, compare the Canadian Charter with rights legislation and frameworks of other countries, and gain a deeper understanding of the importance of respectful debate in a democratic society.

### CIVIL LITIGATION

#### *Taking Someone to Court...*

"I'm gonna sue you!" What does suing someone mean? Who can you sue? For what? And how? Throughout this module students explore the world of civil lawsuits, court procedure, the application of common law and case law, and the calculation of damages by working through a medical malpractice negligence claim. Engaging with legal experts and guests, students interview clients, frame their side's position in Statements of Claim or Defence, examine evidence, and advocate for their clients in a high stakes dispute resolution.

### INTERNATIONAL LAW

#### *Global Campaigns for Human Rights*

When should the international community step into an internal conflict in a sovereign nation? Are there instances where global institutions should prosecute individuals? What responsibilities do corporations have when they operate internationally? How is it possible that there is a Universal Declaration of Human Rights, but there is no formal court that hears human rights claims? Through dynamic workshops, debates, lectures, field trips and interactive activities, students learn how to frame issues in the language of international law, explore the world of international human rights, and examine institutions such as the United Nations Human Rights Council and the International Criminal Court.

### ENTERTAINMENT & MEDIA LAW

#### *Representing the Rich and Famous...*

Why do some people call the free downloading of music, movies, and television shows "stealing"? Who negotiates movie contracts and product endorsement agreements? How are films and video games rated and distributed? What photos and articles can the media publish about sport stars and other celebrities? This module provides students with a foundational understanding of the legal issues present in the film, television, music, sports, book publishing, digital media and videogame industries. A range of interactive sessions and workshops with guest legal experts will lead students through an examination of TV and music production legalities, talent agreements, merchandising of film/celebrity materials, publishing agreements, contract drafting and enforcement, and advising clients.

# MED YSP

Take an exclusive glimpse into the world of cutting-edge medical research.



From its home in the University of Toronto's Medical Sciences Building, in the heart of Toronto's "Medical Discovery District", the Faculty of Medicine Youth Summer Program (MED YSP) offers high school students five unique medical science modules.

The MED YSP features four one-week-long modules in the fields of Physiology, Molecular Biology & Genetics, Pharmacology & Toxicology, and Microbiology. Each of these modules includes lectures from world-class faculty and medical professionals, and hands-on experimentation guided by distinguished academics, in cutting-edge laboratory classroom facilities. These modules are open to students in grades 10 and 11.

Our fifth module offers students the unique opportunity to experience firsthand what it is like to do research in a scientist's lab! This three-week RESEARCH MODULE is open to students currently enrolled in grades 11 and 12. In this module, students will actively participate in experiments alongside a graduate student or researcher getting a taste of real-world medical research in the works.

In addition to the academic content, students get a taste of university residence life while staying at New College and participating in supervised events that showcase the city of Toronto.

## During the Med YSP, you will:

- Experience what it is like to be a medical researcher
- Learn from some of the world's leading doctors and research professionals
- Work in world class laboratories
- Gain a deep understanding of how the body works
- Receive valuable academic enrichment and career guidance



## COURSE MODULES

### HUMAN PHYSIOLOGY

#### *How the Body Works*

Human anatomy and physiology are the foundations of medicine. In this module, through a series of labs and lectures, students explore the main systems in human physiology including: respiratory, cardio-vascular, neuro-muscular and sensory physiology. In the laboratory, students have the opportunity to measure lung volumes, blood pressure, determine their own blood type, measure their own visual acuity and hearing, examine reaction times, and record physiological signs involved during a polygraph (Lie Detector Testing).

### MOLECULAR BIOLOGY & GENETICS

#### *Applications in Forensics & Medicine*

From personalized medicine to criminal investigations, the science of molecular biology and genetics is at the centre of many of today's most contentious issues. In this module, students learn about genomics technologies, forensic techniques such as DNA fingerprinting, and genetic transformation through a variety of hands-on laboratory activities, interactive discussions, and lectures from world-class speakers. Highlighting the program is the mock crime scene where students collect evidence while learning some of the basics of crime scene investigation from real forensic police officers. They then move into the laboratory where they utilize different experimental methods to analyze the collected evidence and work together to put all the pieces of the puzzle together to solve the case.

### PHARMACOLOGY & TOXICOLOGY

#### *Medications, Drugs and the Body*

For any student planning a career in the medical sciences, pharmacology and toxicology—which examines the interactions between chemical substances and the body—is an essential field of study. In this intensive hands-on module, students are introduced to pharmacogenetics, pharmacodynamics, and pharmacokinetics. In the laboratory, students examine their own phenotype-genotype relationship after consuming caffeine, learn why inheritance may cause the same drug/medication to help one person and elicit an adverse reaction in another, observe how medication can affect alertness and reaction rates, and investigate the effects of chemicals in the environment on the rate of drug metabolism.

### MICROBIOLOGY

#### *Microbes and the Body*

The recent global outbreak of H1N1 was the first official pandemic declared by the World Health Organization since 1968. In this module, students learn about the causes and effects of outbreaks like H1N1 and SARS from world-renowned physicians and researchers and gain a fundamental understanding of how a simple transmission method together with a potent microorganism can lead to devastating effects. In the laboratory, students will conduct clinical microbiological tests such as analyzing the sensitivity of selected bacteria to antibiotics and common disinfectants, and also learn about food-borne illnesses and the organisms that cause them.

### RESEARCH IN THE MEDICAL SCIENCES

#### *Three Weeks in a Scientist's Lab*

One of the most exciting aspects of science is discoveries that impact and improve the world we live in. A discovery is fundamentally rooted in the process of systematic evaluation, experimentation and deductive reasoning. In this module, students will have an unparalleled opportunity to work in a research laboratory and contribute to ongoing life science projects, under the supervision of a researcher in the Faculty of Medicine. Students will gain invaluable insight and a cohesive understanding of experimentation while carrying out real-world, hands-on scientific research.

# STUDENT LIFE

AT THE UNIVERSITY  
OF TORONTO

The Youth Summer Programs are only offered as an “All-Inclusive Package” which includes the following:

- 3 Meals/Day
- Academic Courses and Materials
- Accommodation
- Supervision
- Evening Events

For program fees, visit [www.ysp.utoronto.ca](http://www.ysp.utoronto.ca).

## Evening Events and Weekend Trips

The extracurricular itinerary includes evening events that allow students to visit many of Toronto’s most popular destinations including the Rogers Centre for a professional baseball game, Queen Street, the Art Gallery of Ontario, and Toronto’s famous Eaton Centre. For an additional fee, students enrolled in multiple weeks can stay on campus over the weekend and take part in a variety of exciting trips to places such as Toronto’s Centre Island, Canada’s Wonderland (the country’s largest amusement park), Wasaga Beach, and Niagara Falls.

## New College Residence and Cafeteria

During the YSP, students live in the safe and secure environment of the New College Residences on the University of Toronto’s downtown campus. These dormitory style living facilities provide students with comfortable, air-conditioned rooms with high-speed internet. While living at New College, students gain firsthand experience of life in on-campus residential accommodation.

The Audrey Taylor Dining Hall at New College provides students with a comfortable dining area to enjoy the “all you can eat” menu. Students can watch as chefs prepare their delicious daily entrees in a unique “display-style cooking” kitchen.

## Supervision

All events and trips are led by enthusiastic Canadian university students who act as counsellors and mentors to ensure the safety of all students. These counsellors are responsible for supervising the students during all evening and weekend activities. Counsellors live in the residence with the students and have “on call” duties to ensure that students obey curfew times and have someone to contact in case of overnight emergencies.



## READY TO APPLY?

Begin your journey by  
downloading an application  
at [www.ysp.utoronto.ca](http://www.ysp.utoronto.ca).



UNIVERSITY OF  
**TORONTO**

Youth Summer Programs  
University of Toronto, New College  
300 Huron Street  
Toronto, Ontario, M5S 3J6

T: 416.946.0944 F: 416.946.8050  
summer.programs@utoronto.ca  
[www.ysp.utoronto.ca](http://www.ysp.utoronto.ca)