

FORENSIC CHEMISTRY (HBSc)

Forensic Science Program

Forensic Science is the study of physical evidence in a modern legal context. It is best defined as “science in service to the courts.” UTM’s Forensic Science program, the first of its kind in Canada, is designed to provide the student with an understanding of scientific analyses, theories, laboratory skills, applications, and field techniques — while allowing the student to emphasize one particular area in greater detail.

We have developed well-established partnerships with organizations such as the Centre of Forensic Sciences, the Office of the Chief Coroner for the Province of Ontario, the Ontario Provincial Police, the RCMP, and numerous other police services and agencies worldwide.

MAKE THE MOST OF YOUR TIME AT UTM!

We want to help you maximize your university experience, so we’ve pulled together information and interesting suggestions to get you started, although there are many more! As you review the chart on the inside pages, note that many of the suggestions need not be restricted to the year they are mentioned. In fact, activities such as joining an academic society, engaging with faculty and seeking opportunities to gain experience should occur in each year of your study at UTM. Read through the chart and create your own plan using **My Program Plan** found at www.utm.utoronto.ca/program-plans

Programs of Study (POSt)

- Specialist Program ERSPE1009 Forensic Chemistry (Science)
- Major Program ERMAJ0205 Forensic Science (Science)
- Minor Program ERMINO205 Forensic Science

Check out...

How is analytical chemistry used for the analysis of physical evidence? Take FSC311H5 to learn about chemical and instrumental techniques used for analysis of drugs and alcohol, gunshot residue, explosives and paint.

What can I do with my degree?

Careers for Graduates: Forensic laboratory analyst; Hazardous waste management technologist; Criminologist; Quality controller; Biochemistry technologist; Coroner; Medical lab technologist; Toxicologist; Ballistics analyst; Regulatory / government affairs specialist; Medico-legal investigator.

Workplaces: Government; Forensic laboratories; Medical examiners/coroner offices; Toxicology laboratories; Police agencies; Pharmaceutical companies; Scientific R&D companies.



FORENSIC CHEMISTRY

SPECIALIST Program Plan

HOW TO USE THIS PROGRAM PLAN

Read through each year. Investigate what appeals to you here and in any other Program Plans that apply to you.

Visit www.utm.utoronto.ca/program-plans to create your own plan using [My Program Plan](#). Update your plan yearly.



	1 ST YEAR	2 ND YEAR
PLAN YOUR ACADEMICS*	<p>Enrol in courses CHM110H5, 120H5; BIO152H5, FSC239Y5; MAT134Y5/135Y5/137Y5/157Y5; PHY136H5 and 137H5.</p> <p>Choose a program of study (Subject POST) once you complete 4.0 credits. Use the Degree Explorer Planner and the Academic Calendar to plan your degree.</p> <p>Start strong and get informed with utmONE and LAUNCH through the Centre for Student Engagement (CSE). Join a RGASC Peer Facilitated Study Group.</p>	<p>Enrol in courses BIO200H5, 206H5, 207H5; CHM211H5; JCP221H5; CHM231H5, 242H5, 243H5; FSC271H5; and STA220H5;</p> <p>Consider applying for Research Opportunity Program (ROP) courses CHM299Y5, FSC399Y and CHM399Y5. Visit the EEU website for ROP Course Prerequisites. Attend the RGASC's P.A.R.T. to enhance your research skills.</p>
BUILD SKILLS	<p>Use the Co-Curricular Record (CCR). Search for opportunities beyond the classroom, and keep track of your accomplishments.</p> <p>Attend the Get Experience Fair through the Career Centre (CC) to learn about on- and off-campus opportunities.</p>	<p>Use the Career Learning Network (CLN) to find postings for on- and off-campus work and volunteer opportunities.</p> <p>Work on-campus through the Work-Study program. View position descriptions on the CLN.</p>
BUILD A NETWORK	<p>Networking simply means talking to people and developing relationships with them. Start by joining the UTM Forensics Society (IVNVI). Find them on Facebook and follow them @utmforensics on Twitter. Go to IVNVI's Meet the Prof Night.</p> <p>Visit the UTM Library Reference Desk.</p>	<p>Do you have a professor you really like or connect with? Ask them a question during office hours. Discuss an assignment. Go over lecture material. Don't be shy! Learn Tips On How to Approach a Professor available through the Experiential Education Unit (EEU).</p>
BUILD A GLOBAL MINDSET	<p>Attend events held by the International Education Centre (IEC), whether you are an international or domestic student. Explore different cultures through food, music, and sport or through sight-seeing around the GTA.</p> <p>Start with the International Education Week events and learn about the diversity, culture, and international opportunities on campus!</p>	<p>Embark on a UTM Abroad Global Impact Project through the IEC. Take advantage of this opportunity to travel with a faculty member and learn about a topic of interest in a unique location.</p> <p>Interested in deepening your global perspective? Register for the Global Citizenship Certificate offered by the IEC.</p>
PLAN FOR YOUR FUTURE	<p>Attend the Program Selection & Career Options workshop offered by the Office of the Registrar and the CC.</p> <p>Check out Careers by Major at the CC to see potential career options.</p>	<p>Explore careers through the CC's Extern Job Shadowing Program.</p> <p>Considering further education? Attend the CC's Graduate and Professional Schools Fair. Talk to professors – they are potential mentors and references.</p>

*Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.

3 RD YEAR	4 TH OR FINAL YEAR
<p>Enrol in courses CHM311H5, 331H5/ 333H5, 341H5/ 345H5, 361H5, 372H5/ 396H5, 394H5; FSC300H5, 302H5, 360H5, and 311H5.</p> <p>Throughout your undergraduate degree:</p> <ul style="list-style-type: none"> use the Degree Explorer to ensure you complete your degree and program requirements. see the Office of the Registrar and the Forensic Science Academic Advisor for assistance. 	<p>Enrol in courses CHM414H5, 416H5; FSC402H5 and 481Y5 (with chemistry focus). Conduct an internship research project under the supervision of a professional mentor and faculty member through FSC481Y5</p> <p>Log on to ACORN and request graduation.</p>
<p>Explore your interests. Why not pass on your passion for science? Be a UTM Let's Talk Science Outreach volunteer to support educators and help youth form positive attitudes towards the role that STEM plays in their lives and futures.</p>	<p>Skills are transferrable to any job regardless of where you develop them. Learn techniques forensic scientists use in the field! Collect, process, and analyze evidence found at a "crime scene" through FSC407H5. Speak to the Forensic Science Academic Advisor.</p>
<p>Establish a professional presence on social media (e.g., LinkedIn).</p> <p>Attend the E.A. Robinson Science Education Lectureship through the CPS department.</p> <p>Thinking about life after UTM? Connect with a UTM alumnus through the CSE's Alumni Mentorship Program!</p>	<p>Join a professional association. Check out the Canadian Society of Forensic Science.</p> <p>Attend the Southern Ontario Undergraduate Student Chemistry Conference or the Forensic Training Conference.</p>
<p>Earn credits overseas! Study for a summer, term or year at one of 120 universities. The Forensic Science department has identified 4 partners who are most relevant to their students. Speak to the IEC for details about Course Based Exchange and funding.</p>	<p>Why not work abroad? Read up on worldwide employment trends and industry outlooks through GoInGlobal. Attend the Go Global Expo to learn about opportunities. See if you are eligible for International Experience Canada.</p>
<p>What's your next step after undergrad?</p> <p>Entering the workforce? Evaluate your career options through a CC Career Counselling appointment. Create a job search strategy - book a CC Employment Strategies appointment.</p> <p>Considering further education? Research application requirements, prepare for admission tests (LSAT, MCAT), and research funding options (OGS, SSHRC)</p>	<p>Market your skills to employers. Get your resume critiqued at the CC. Attend the CC workshop Now That I'm Graduating What's Next?</p> <p>Write a strong application for further education. Attend the CC's Mastering the Personal Statement workshop.</p>

Revised on: 9/18/2018

Visit www.utm.utoronto.ca/program-plans for the online version and links.

FORENSIC CHEMISTRY

Skills developed in Forensic Chemistry

To be competitive in the job market, it is essential that you can explain your skills to an employer. Visit the Career Centre to learn how to articulate and market the following skills:

Technical: toxicology methods; chemical processing; make and record accurate measurements; make observations, draw diagrams and take photographs; crime scene investigation; and use statistical tests.

Communication: report writing; verbal testimony; understanding of cultural diversity; translate scientific evidence; and analyze and present data.

Organizational: casework; teamwork; and understanding legal issues related to evidence.

Problem-solving: identify alternative solutions and interpret lab findings.

Research: draw conclusions based on the evidence obtained and communicate results of investigative work through proper channels based on the conclusions drawn.

Get involved

Check out the 100+ student organizations on campus. Here are a few:

- UTM Forensics Society (IVNVI)
- Erindale Chemical and Physical Sciences Society (ECPS)
- UTM Student Union (UTMSU)
- UTM Athletics Council (UTMAC)

For a listing of clubs on campus visit www.utm.utoronto.ca/clubs.

Services that support you

- Accessibility Services (AS)
- Career Centre (CC)
- Centre for Student Engagement (CSE)
- Experiential Education Unit (EEU)
- Health & Counselling Centre (HCC)
- Indigenous Centre (IC)
- International Education Centre (IEC)
- Office of the Registrar (OR)
- Recreation, Athletics and Wellness Centre (RAWC)
- Robert Gillespie Academic Skills Centre (RGASC)
- UTM Library, Hazel McCallion Academic Learning Centre (HMALC)

Forensic Science Program

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www.utm.utoronto.ca/forensic

FUTURE STUDENTS

Admission to UTM

All program areas require an Ontario Secondary School Diploma, or equivalent, with six Grade 12 U/M courses, or equivalent, including English. The admission average is calculated with English plus the next best five courses. The Grade 12 prerequisites for this program are Advanced Functions, Biology, Chemistry and Physics. The approximate average required for admission is mid- to high-70s. More information is available at utm.utoronto.ca/viewbook.

NOTE: During the application process, applicants will select the Forensic Science admissions category but will not officially be admitted to a formal program of study (Specialist, Major, and/or Minor) until after first year.

Sneak Peek

Curious about pharmacology? Take BIO200H5 to learn about the absorption and calculation of dosages as well as the variability in drug response and adverse drug reactions. What is the role of a coroner? Enrol in FSC239Y to find out about crime scene investigation, forensic chemistry and toxicology. Get excited for FSC481Y5! You'll spend 200 hours collaborating with a professional forensic specialist on an original project.

Our courses provide students the opportunity to learn about all aspects of forensic science in the classroom and to apply their knowledge to practical assignments using state-of-the-art technology and instruments. Courses are taught by professionals who bring their own expertise and unique field experience to the classroom.

Student Recruitment & Admissions

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905-828-5400

www.utm.utoronto.ca/future-students

