

the trace to understand, prevent and manage security problems

| le savoir vivant |

master of science (Msc) in crime data analysis and traceology

GENERAL OUTLINE

Objectives

The Master of Science in Crime Data Analysis and Traceology provides cross-disciplinary training in the criminological sciences and data analysis. You will develop a unique skillset, combining complementary approaches and areas of expertise to analyse crime and security issues at a time when society is increasingly driven by digital technology.

The Master of Science is organised in partnership with the School of Criminology of the University of Montreal which is the leading department of criminology in the Frenchspeaking world. Programmes offered by the School cover all three university cycles and are recognised at an international level. Some are unique to Canada and all stand out by their exceptional quality of teaching which gives equal weight to European and American influences.

Career prospects

You will develop theoretical and applied knowledge that will allow you to identify security issues and problems in an international and multicultural context through a degree course divided between Switzerland and Canada.

In addition to these specific skills, university studies develop a great many transverse skills: oral and written communication, critical, analytical and summarising faculties, abilities in research, and so on.

These panoply of skills prepares to careers in different fields of public and private security related to intervention, analysis and prevention, in particular with:

- police and law enforcement agencies;
- public administrative bodies, authorities and private data collection and analysis organisations:
- companies, particularly in security, anticounterfeiting and anti-fraud departments;
- international (non-) governmental organisa-

Alumni move into a wide variety of roles, for example as an analyst in an insurance

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GENERAL INFORMATION

Organisers

School of Criminal Justice, Faculty of Law, Criminal Justice and Public Administration: www.unil.ch/esc

University of Montreal, School of Criminology: crim.umontreal.ca/accueil

Degree awarded

Master of Science (MSc) in Crime Data Analysis and Traceology

ECTS credits

120

Duration

4 semesters, one of them at the University of Montreal (UdeM)

Teaching language

French. Recommended level: C1. A very good understanding of English is necessary, since most criminology literature is published in English and a few block courses are given in English.

Contact

Secretariat

School of Criminal Sciences Quartier UNIL-Sorge Batochime CH - 1015 Lausanne

Tél. +41 (0)21 692 46 00 info.esc@unil.ch

More information

www.unil.ch/esc

EDUCATIONAL CONTENT

Description

In the first semester, you will travel, in principle, to the University of Montreal, where you choose four courses in criminology from among a wide range on offer.

In the ensuing semesters you complete your training in forensic science and criminal analysis. You will develop expertise in gathering, processing and analysing mass data in physical and digital environments.

Finally you complete a project consisting of personal interdisciplinary research work. The degree course includes two integration seminars which prepare you for the dissertation with guided reading, conferences, and preparation and presentation of your research

This course will thus lead you to:

- · Detect, describe and interpret criminal phenomena by means of traces and in the light of criminological theories.
- Exploit the informational value of traces in processes of prevention, intervention and problem reduction.
- Understand data processing, organisation and visualisation principles and methods.
- Implement tools and methodological approaches used in criminal justice and information sciences.

Examinations

To obtain the Master of Science degree, you must pass the examinations and validations laid down for each component of the programme, in accordance with provisions outlined in the study plan and regulations.

Mobility

Study grants may be awarded to students to cover travel and accommodation costs arising from the semester spent at the University of Montreal.

Some Master's theses may sometimes be done in a professional environment thanks to partnerships.

Skills development

The Master of Science in Traceology and Crime Analysis Lastly, the international dimension of the course allows you to identify security problems and challenges from a multicultural and international perspective.

This panoply of skills, combined with specialist knowledge acquired in the course of studies, is excellent preparation for a wide range of employment opportunities such as those mentioned in the «Career prospects» section.

SYLLABUS

1st semester

Courses followed at the University of Montreal subject to availability under the exchange agreement.

Module Criminology

- 4 optional courses, including:
- 1course in Methodology
- 3 courses in Analysis of Criminal Phenomena
- 28 ECTS credits

2nd and 3rd semesters

Courses followed at the University of Lausanne

Module Data and Security

- Criminal Policy
- Policing
- Security Data and Intelligence Analysis • Operational Criminal Analysis
- Advanced Practice in Criminal Analysis
- Choice of Options (6 ECTS)
- 32 ECTS credits

Module Forensic Science

- Investigation and Monitoring on the
- Optional Courses in Forensic Science 30 ECTS credits

4th semester

Module Master's Thesis

• Personal Interdisciplinary Work 30 ECTS credits

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GENERAL INFORMATION

Applicants must be the holders of a Bachelor of

Science in Forensic Science or a Master of Law

in Criminology and Security. A different degree

or university qualification may be deemed

equivalent and allow access to the Master of

Science with or without conditions. Equivalence

is determined by the School (info.esc@ unil.ch),

subject to the candidate's formal admissibility

Applications must be submitted to the

Admissions Department (www.unil.ch/

Candidates needing a visa to study in

Autumn semester: mid-September or according

to the calendar of the Université de Montréal.

Under certain conditions, a Master programme

www.unil.ch/formations/master-temps-partiel.

See also the Master's degree regulations:

General information on studies, guidance

Admission requirements

for the Master of Science.

immat) before 30 April.

Switzerland: 28 February

UNIL academic calendar:

www.unil.ch/central/calendar

Part-time Master's degree

can be followed part-time.

www.unil.ch/esc

Timetables

Start of courses

Enrolment and final date

Accomodation and financial assistance www.unil.ch/sasme

International

www.unil.ch/international



Unil

Faculté de droit, des sciences criminelles et d'administration publique





Faculté de droit, des sciences criminelles et d'administration publique