

Université de **M**ontréal

at a glance

MONTRÉAL...

Named **best city in the world** for foreign students
and considered the cultural capital of Canada

- **4 UNIVERSITIES**
- **UdeM AMONGST THE TOP 100 IN THE WORLD, ALONGSIDE MCGILL**
- **BILINGUALISM (FRENCH-ENGLISH)**
- **MULTICULTURALISM (MORE THAN 120 CULTURAL COMMUNITIES)**
- **ARTISTIC VITALITY**
- **AFFORDABLE COST OF LIVING**
- **REMARKABLE QUALITY OF LIFE**
- **SAFE ENVIRONMENT**





1st

IN QUÉBEC
LARGEST UNIVERSITY
IN THE PROVINCE

2nd

IN CANADA
IN TERMS OF NUMBER OF PROFESSORS

4th

IN CANADA
IN TERMS OF RESEARCH

84th

IN THE WORLD
ACCORDING TO *TIMES HIGHER EDUCATION*
AND WITHIN THE TOP 150 OF ANY
INTERNATIONAL UNIVERSITIES RANKINGS

600

INTERNATIONAL PARTNERS
AGREEMENTS WITH UNIVERSITIES in 90
COUNTRIES

16 FACULTIES AND SCHOOLS



- Arts and Sciences
- Education
- Environmental Design (architecture/urbanism)
- Law
- Music
- Theology and Religious Sciences
- Continuing Education
- Graduate and Postdoctoral Studies
- Dentistry
- Medicine
- Nursing
- Pharmacy
- Veterinary Medicine
- Department of Kinesiology
- School of Optometry
- Public Health

2 AFFILIATED SCHOOLS :

Polytechnique Montréal and HEC Montréal

FACULTY OF ARTS AND SCIENCE



ASPIRE – ACT – ACHIEVE

The Faculty of Arts and Science in numbers

TEACHING

- 600 professors (including First Researcher in Canada in the field of Political science/public policy¹)
- More than 100 graduate programs
- More than 4 000 graduate students
- More than 150 undergraduate programs
- More than 15 000 undergraduate students

RESEARCH

- More than 150 research chairs and centers
- Between 50 to 100 million dollars in research funds
- First ranked in Canada for research output in: Communication, Criminology and Physics¹.



¹ According to Jarvey, P., Usher, A. and McElroy, L. 2012. Making Research Count: Analyzing Canadian Academic Publishing Cultures. Toronto: Higher Education Strategy Associates.

Faculté des arts et des sciences

The Faculty of Arts and Science (FAS): 26 departments and schools, six multidisciplinary sectors of study, research and intervention

Humanities

- Art History and Film Studies
- Comparative Literature
- English Studies
- French Language Literatures
- History
- Linguistics and Translation
- Literature and Modern Languages
- Philosophy

Social Sciences and Psychology

- Anthropology
- Communications
- Criminology
- Demography
- Economics
- Industrial Relations
- Library and Information Sciences
- Political Science
- Psycho-education
- Psychology
- Social Work
- Sociology

Science

- Biological Sciences
- Chemistry
- Computer Science and Operations Research
- Geography
- Mathematics and Statistics
- Physics



The Faculty of Arts and Science: An important player in the knowledge society...

Leader, in Québec and in Canada, in the fields of knowledge production and promotion:

- by being on the cutting edge of research and training in all disciplines in the fields of Science, Humanities and Social Sciences.

But also...

- by answering the needs of a knowledge society by grasping issues with an **innovative interdisciplinary approach**.
 - Sample of our interdisciplinary programs:
 - Applied Human Sciences (graduate level)
 - Arts, Creation and Technologies (graduate level)
 - Communications and Politics (undergraduate/graduate levels)
 - Environment and Sustainable Development (graduate level)
 - International Studies (undergraduate/graduate levels)
 - Journalism (graduate level)
 - Museology (graduate level)
 - Social Administration (graduate level)



Faculté des arts et des sciences

Our four research axes : **CULTURE**

Anthropology and Archeology – biological anthropology, prehistorical and classical archeology, ethnology and ethnomusicology, paleontology and prehistory

Arts – Native arts and arts of the Americas, arts and globalization, art history and museology

Culture and Media – media art and video games, arts and technology, organizational communication, digital humanities, cinematographic institutions, intermediality, social media, cultural mobility, digital heritage and culture

History – health history, international history and globalization, male–female relationships, societies and cultures in the Atlantic World

Identities, Alterity and Differences – identity building and gender, minority and majority cultures, interculturality, plurilinguism

Literature and Languages – Québec studies, history of literature, lexicology and lexicography, terminography, literary theory and epistemology, specialized translation, automated language–processing

Philosophy and Ethics – ethics and political philosophy, philosophy of science

Faculté des arts et des sciences

Our four research axes : **NATURE**

Astronomy, Astrophysics and Cosmology – galactic and extragalactic astronomy, solar and stellar astronomy, exoplanetology, instrumentation, dark matter, elementary particles

Scientific Computing and Data Processing – applications, bioinformatics, data mining, artificial intelligence, genomics, operations research, data science

Synthetic Chemistry and Green Chemistry – molecular and polymeric materials, “natural” synthesis processes, catalytic reactions, ecological solvents, green molecular synthesis

Environment and Sustainable Development – watersheds and hydrological processes, climate change, contaminants, terrestrial and aquatic ecosystems, ecophysiological and biogeochemical processes, remediation and phytotechnologies

Faculté des arts et des sciences

Our four research axes : **NATURE** (*continued*)

Digital Media and Culture, Information Technologies – mobile applications, infography, cloud computing, video games

Nanosciences and Materials – devices and applications, functional materials, self-assembly and nanostructured materials, organic and supramolecular materials, polymeric materials, microscopy, plasma, spintronics

Earth Sciences – numerical ecology, geomorphology, natural resources, geographic information science, remote sensing

Life Sciences – biodiversity, bioinformatics, animal biology, cellular biology, molecular biology, biophysics, biological chemistry, imaging

Mathematical and Computer Sciences – cryptography, quantum computing, artificial intelligence, financial mathematics and actuaries, pure and applied mathematics, statistics

Faculté des arts et des sciences

Our four research axes : **HEALTH**

Social Determinants of Health, Equity – medical anthropology, social participation, health practices and policies, occupational health, public health

Human Development – adulthood and aging, anti-social behaviours, addictions, delinquency, childhood and adolescence, social inequalities, migrations, school achievement, work and employment

Neuroscience and Psychology – music cognition, neuropsychology, cognitive neurosciences, psychology and social cognition, health psychology, industrial and organizational psychology

Tools – pharmaceutical and medicinal chemistry, genomics and evolution, nanobiology and nanobiotechnology, neuroimaging

Health, Care and Interventions, Personalized Medicine – neurodegenerative diseases, cognitive and psychosocial rehabilitation, traumatism and cognition, cognitive disorders, mental health

Faculté des arts et des sciences

Our four research axes : **SOCIETY**

Ethnic and religious diversity – citizenship and governance, ethnic studies, social integration, pluriethnicity and “living together”

Organizational Dynamics – employment and globalization, human resources management, labour, work relations

Economics – econometrics, environmental economics, quantitative economics, macroeconomics, microeconomics, public policies, economic theory

International Studies – political economy, political history, globalization and international cooperation, transnational movements and migration, organizations, security and peace, international relations theory

Family, women, children – adolescence, psychosocial maladjustment, social inequalities, school achievement, victims and victimization, violence against children and women

Governance, Diversity and Public Policy – citizenship and social cohesion, corruption, electoral studies, social movements, public policy and institutions, political regimes

Norms and Delinquency – sexual assaults, anti-social behaviours, criminality, cybercrime, addictions

Populations – historical demography, families, migrations, life-course and health

HUMANITIES at the FAS: an overview

Departments: Art History and Film Studies, Comparative Literature, English Studies, French Language Literatures, History, Linguistics and Translation, Literature and Modern Languages and Philosophy

- Literatures: study of authors from the Americas, Europe, Asia and Africa, mostly in French, English, Spanish and German languages; representations of cultures and societies.
- Languages: wide variety of language courses (French, English, Spanish, German, Chinese, Arabic, Italian, Japanese, Modern Greek, Catalan, Portuguese, Russian), focused on oral and written command of language.
- Art, film and video games: film history and aesthetics (national film industries, history and film), film and media (literature, television, video games), cultural studies.

Sample of our programs in Humanities : undergraduate and graduate studies

- **Art History:** arts (Middle Age to present day); arts in the Americas and native arts; museum studies; aesthetic behavior; arts and politics in the time of globalization
- **Asian Studies:** literature, thought and spirituality; history, culture and society
- **English Studies :** English-speaking literature; genre studies; sexual identities in literature
- **Film Studies:** history and film aesthetics; film and other media; video game studies
- **History:** societies and cultures in Atlantic World; powers from local to international scales; identities, alterities, differences
- German; English; Arabic; Catalan; Chinese; Greek; Hispanic; Italian; Japanese; Latin; Neo-hellenic; Russian **languages and cultures**
- **Literature:** comparative literature; german and hispanic studies; French-speaking literature
- **Museology:** museums and management, research, preservation and display of heritage
- **Philosophy:** ancient, medieval, modern, continental, Chinese, 20th Century Anglo-American philosophies; ethics and political philosophy
- **Translation :** specialty languages ; English to French professional translation



Sample of our research units

Humanities

Culture and Film

- Centre for Research on Intermediality ([CRI](#))
- Groupe de recherche sur l'avènement et la formation des institutions cinématographique et scénique ([GRAFICS](#))

History and Art History

- Groupement interuniversitaire pour l'histoire des relations internationales (GIHRIC)

Literature

- Canada Research Chair in German and European Studies
- Centre de recherche interuniversitaire sur la littérature et la culture québécoises ([CRILCQ](#))

Philosophy and Ethics

- Centre de recherche en éthique de l'Université de Montréal ([CREUM](#))
- Canada Research Chair in Ethics and Meta-ethics

Linguistics and Translation

- Centre de recherche de l'Institut de gériatrie de Montréal ([CRIUGM](#))
- Observatoire de linguistique Sens-Texte ([OLST](#))
- Phonetic Sciences Laboratory

Faculté des arts et des sciences

SOCIAL SCIENCES at the FAS: an overview

Departments: Anthropology, Communications, Criminology, Demography, Economics, Industrial Relations, Library and Information Sciences, Political Science, Psycho-education, Psychology, Social Work, Sociology

- Societies, their dynamics and organisation: political systems; social changes and their origins; cultural, technological, economic and political dimensions of societies; population and international migration; international cooperation.
- Social wellness and intervention: practical study of individual, family and community's interactions with their environment; intervention methods (poverty, family conflicts, isolation, alcoholism, etc.); cognitive neuroscience; social psychology; work psychology; children and teenagers with social, affective, intellectual and physical issues.

Sample of our programs in Social Sciences: undergraduate and graduate studies

- Anthropology: ethnology; archeology, biological anthropology; ethnolinguistics
- Communication: ICT and society; media and *cultural studies*; organizational comm.; political comm.; international comm. and development; creation and media practices
- Criminology: forensic science and information; homeland security; intervention
- Demography: demographic phenomena; demographic methods
- Economics: econometrics; labor economics; international finance and economics
- Industrial Relations: occupational health and safety; human resources management; unionism
- International Studies: cooperation and development; globalization and economy; institutions and law; societies, identities and cultures
- Political Science: democracy and political representation; public policy; international relations
- Psychology: clinical neuro/psychology; industrial psychology
- Sociology: identities, culture and citizenship; social inequality and life course; social production of health and well-being



Increasing use of online courses

Faculté des arts et des sciences

Sample of our research units

Social Sciences

Digital Culture and Information Technologies

- Centre de recherche interdisciplinaire sur les technologies émergentes de l'UdeM ([CITÉ](#))
- Centre for Youth and Media Studies ([CYMS](#))

Criminology

- International Centre for Comparative Criminology ([ICCC](#))

Economics

- Center for Interuniversity Research and Analysis of Organizations ([CIRANO](#))
- Centre interuniversitaire de recherche en économie quantitative ([CIREQ](#))

Governance and Public Policy

- Interuniversity Research Centre on Globalization and Work ([CRIMT](#))
- Canada Research Chair in Electoral Studies ([CRCES](#))
- Canada Research Chair in Citizenship and Governance ([CCCG](#))

International Studies

- Centre d'études de l'Asie de l'Est ([CÉTASE](#))
- Canadian Centre for German and European Studies ([CCGES](#))
- Centre d'études et de recherches internationales de l'UdeM ([CÉRIUM](#))

Further information: <http://www.fas.umontreal.ca/recherche/>

SCIENCES at the FAS: an overview

6 departments: Biology, Chemistry, Computer Science and Operations Research, Geography, Mathematics and Statistics, Physics

- Materials sciences: polymers, supramolecular chemistry, self-assembly materials, nanostructures, solid surfaces, energy storage/conversion, carbon nanotubes.
- Biological processes: biological materials, protein engineering, medicinal chemistry, development of sensors, enzymatic activity, biomedical physics.
- Environmental sciences: in biology, in chemistry, in geography. Studies in the North and the Arctic areas.

Sample of our programs in Sciences : undergraduate and graduate studies

- **Biological Sciences:** integrative animal biology; cellular and molecular plant biology; ecology and environment; biodiversity
- **Chemistry:** bioorganic and medicinal chemistry; bioanalytical and environmental chemistry; materials and biomaterials chemistry; computer-assisted chemistry
- **Computer Science:** software engineering; artificial intelligence; theoretical computer science; bioinformatics; quantum computer science; operations research; infographics; stochastic simulation
- **Geography:** environmental change; sustainable development; cultural geography; natural resources management; geographic information science; applied teledetection
- **Mathematics:** actuaries and financial mathematics; algebra and number theory; biomathematics; geometry and topology; mathematical physics; probability; statistics
- **Physics:** astronomy and astrophysics; biophysics; plasma physics; medical physics; optical physics; condensed matter physics and materials physics; nuclear physics



Sample of our research units

Sciences

Materials and nanosciences

- Canada Research Chair on Supramolecular Materials
- Canada Research Chair in Stereoselective Synthesis of Bioactive Molecules

Environment and sustainable development

- Centre in Green Chemistry and Catalysis ([CGCC](#))

Life Sciences

- Institut de recherche en biologie végétale ([IRBV](#))
- Institute for Research in Immunology and Cancer ([IRIC](#))
- International Laboratory for Brain, Music and Sound Research ([BRAMS](#))

Mathematical sciences and Computer Science

- Interuniversity Research Center on Enterprise Networks, Logistics and Transportation ([CIRRELT](#))
- Centre de recherches mathématiques ([CRM](#))

Atoms and Galaxies

- Centre for Research in Astrophysics of Québec ([CRAQ](#))
- Canada's national laboratory for particle and nuclear physics ([TRIUMF](#))

INTERNATIONALIZATION OF THE FAS

Great achievements...

- Master in **Communications**; political communication – Université Libre de Bruxelles (Belgium)
 - One semester in Brussels; one semester in Montreal (students from FAS and ULB)
- Master in **Criminology**; forensic science and information – University of Lausanne (Switzerland)
 - One semester at the School of Criminal Justice of the UNIL
- Master in **Film Studies** – 12 European universities, including: Université Sorbonne Nouvelle, Université de Liège, Universitat Pompeu Fabra of Barcelona and University of Amsterdam
 - Two semesters abroad in two different countries
- Master in **Museology** – École du Louvre
 - Intensive seminar in Paris (FAS students); summer semester in Montreal (Louvre students)

... and ambitious projects!

- Participation in **University of Geneva's** Bachelor in international relations, including notably the University of Toronto, Princeton University, Fudan University and Waseda

Faculté des arts et des sciences

International mobility

The FAS encourages and supports faculty and student mobility with:

- More than 100 mobility agreements
- Foreign visiting professors and postdoctoral fellows
- Professors who obtained their diplomas outside of Québec/Canada

Collaborations around the world:

- Shanghai Jiao Tong University (China) – Arts, Literature, Social Sciences
- China University of Political Science and Law – Economics, History, Political Science, Sociology
- École du Louvre (France) – Museology
- Universidad de San Andrés (Argentina) – Political Science
- Université Paris IV – Paris-Sorbonne (France) – Communications and Philosophy
- University of California, Berkeley (United States)
- University of Kent (United Kingdom)



Studying at the Faculty of Arts and Sciences: a wealth of opportunities

- Short and long study stays
 - Participation in a student exchange program (one or two semesters in Montreal)
 - Participation in a summer school
 - Registration to a program (undergraduate and graduate studies)
 - Realization of an internship
- Many resources available, including:
 - Scholarships
 - Work opportunities on campus, including for international students: teaching assistantships, research assistantships, lecturer positions, etc.

Faculté des arts et des sciences

The FAS: Modernizing Spaces, Foreseeing the Future

Carrefour des arts et des sciences

Inaugurated in March 2011, the Carrefour features conference rooms equipped with cutting-edge technology, a screening room as well as the Marius-Barbeau Civilisations and Cultures Laboratory (*right*).



3200, Jean-Brillant

Modernization of 24 classrooms, 2 auditoriums (furniture, network hookups at student desks, etc.)

Faculté des arts et des sciences



- Thank you for your attention!
- For more information, please visit:
 - www.fas.umontreal.ca
 - www.futursetudiants.umontreal.ca