

Programs	Description	Level	Url
Biochemistry	Open to current issues in the fields of health, the environment, pharmaceuticals and agrifood, the master's degree in biochemistry from UQAM is interested in the study of the functioning of living organisms at the molecular scale. It trains students in fundamental and applied research while preparing them for the job market or for a doctorate. Students carry out a research project with professors active in research and committed to the community. Projects can be carried out in collaboration with specialized, private or governmental institutions. At the end of their studies, graduates work in particular in the pharmaceutical, biotechnological or agrifood industries, in patent agencies, in laboratories or in the fields of communication or college education.	Master	https://etudier.uqam.ca/programme/maitrise-biochimie
Biology	The master's degree in biology brings together all the subjects of this discipline, from the molecule to the ecosystem, including the cell, tissues, organism, population and community. This multidisciplinary structure allows students to develop a global vision of biology and to give rise to original research subjects, such as molecular ecology and the production of vaccines by plants. Through solid research training, this program prepares students for postgraduate studies and the workplace. Graduates pursue careers in the fields of the environment, ecology, pharmaceuticals, biotechnology and biomedical research.	Master	https://etudier.uqam.ca/programme/maitrise-biologie
Chemistry	Oriented towards environmental protection, health improvement and technological efficiency, the master's degree in chemistry offers a solid general education in science in addition to bringing students at the cutting edge of knowledge in a field of specialization. . Practical activities and applied research projects develop students' scientific autonomy and prepare them for doctoral studies or careers in the field of research. From the first year of the master's degree, students join teams of interdisciplinary researchers working on nanomaterials, electrochemistry, organic synthesis, preventive vaccines and green energy. Theoretical and practical training leads, among other things, to the pharmaceutical and industrial field, college education and the transformation of materials.	Master	https://etudier.uqam.ca/programme/maitrise-chimie
Environment design	This program provides in-depth training in the field of environmental design. It aims to train researchers, researcher-practitioners and practitioners capable of meeting the new challenges posed by material culture design of objects, built places, interior and exterior spaces at a time when the urgent need to take into account is needed. take into account the needs of communities and integrate the constraints of sustainable development. Focused on societal issues and the subjects of study rather than on the specific disciplines or scales of the project, the program is structured around three structuring axes: sustainable culture, proximity and transversality. Sustainable culture, or the sustainability of environmental solutions, as a design project development approach, reconciling the social, economic and ecological aspects of human activity; Proximity, to which are commonly associated values relating to the community and collective dimensions of our living environment for which design, as a quality factor, constitutes a valuable lever; Transversality, based on a recognition of the complexity of the issues advocating an integrated and global design approach, marked by the disciplinary contribution of different practices and scales in design, based on work within interdisciplinary teams, and promoting mediation between the various actors of the project.	Master	https://etudier.uqam.ca/programme/maitrise-design-environnement

Environmental education	<p>This program aims to develop skills in education and training relating to the environment in formal and non-formal intervention settings: at school, in the community, in business, in the media, museums, etc. interpretation centers, etc. These skills concern both educational action and environmental action, closely associated with each other in projects aimed at stimulating the critical analysis of socio-ecological realities and contributing to the changes suggested by such an analysis. The main skills are as follows: design and implement education or training projects relating to the environment appropriate to the context, taking into account the different philosophical, epistemological, ethical, pedagogical, cultural, institutional and political issues that raise such initiatives; associate educational action with the development of environmental action projects aimed at solving socio-ecological problems, environmental management or eco-development; integrate a reflective dimension into educational action, so as to take advantage of the latter to progressively contribute to the development of the theoretical and practical field of environmental education.</p>	Short program	https://etudier.uqam.ca/programme/education-relative-environnement
Geography	<p>Integrating the multidisciplinary dimensions of geography, this program leads students to meet challenges of a spatial and territorial nature, as much at the local, regional, national and international levels. The training brings together several methodological tools such as geographic information systems, remote sensing and spatial analysis, while offering solutions that take into account human and physical geography. Two paths are offered to students. From a perspective that joins the questioning of social sciences, the path with memory trains researchers in geography able to analyze the natural space in the spheres of geomorphology, hydrology, biogeography and climatology, or the territory in its cultural, economic, political or social dimensions. As for the professional development, it trains specialists in applied geography in order to find solutions to the problems of land use planning and spatial planning of physical and human resources and who develop the tools associated with geographic information systems.</p>	Master	https://etudier.uqam.ca/programme?code=3268
Sustainable management of forest ecosystems	<p>The general objective of this professional program is to train highly qualified professionals in the sustainable management of forest ecosystems. The graduates of the program will be able to propose and manage sustainable forest development projects for all the resources of forest ecosystems, develop strategies consistent with ecosystem management, participate in the management of a forest territory by introducing approaches integrated resource development and participatory management, quantify the services offered by forest ecosystems, conduct public consultations and collaborate in the establishment of a forest certification process.</p>	Master	https://etudier.uqam.ca/programme?code=1517
Meteorology	<p>This program aims to provide training allowing the application of knowledge and skills acquired in various fields related to atmospheric sciences. This program provides the student with the knowledge in physics of climate and atmosphere to meet the standards of the World</p>	DESS	https://etudier.uqam.ca/programme/dess-meteorologie

Meteorological Organization and the requirements of the certification "Professional Meteorologist" (Met. P) established by the Organization for careers in environment (ECO Canada). The program aims to train professionals to work in weather forecasting operations, as well as in sectors using atmospheric sciences such: weather forecasting, air quality, climatological databases, atmospheric structure, wind power, etc.

Territorial planning and local development	<p>The general objective of this program is to train professionals, specialists in territorial planning and local development, in a perspective of humanistic and sustainable development. It aims to reintroduce the human dimension into the logic of development, while promoting the development of people. Approaches, techniques and working methods are taught in order to work in concert with public, parapublic and community organizations that intervene in the development of communities. Taking into account the social and cultural dimensions, the graduates draw up diagnoses and formulate strategic action plans to support the actors in their development projects.</p>	DESS	https://etudier.uqam.ca/programme?code=3616
Resilience, risks and disasters	<p>The DESS in resilience, risks and disasters aims to deepen knowledge, skills and know-how applicable to a range of dedicated positions in resilience, risks and disasters. Those enrolled in this program will learn how to develop and apply disaster planning, preparedness, response and recovery strategies. They will develop their ability to act as a professional in the field. By virtue of the active teaching strategies favored in this program, students will be exposed to realistic, even real cases, simulations or problems, and called upon to reflect in a transversal, intersectoral and multi-scalar manner on the human, organizational and societal dimensions specific to every event. This will enable them to grasp the challenges related to knowledge and practices in disaster risk management and to acquire a range of knowledge and skills applicable both in the public or parapublic sector as well as in the private sector.</p>	DESS	https://etudier.uqam.ca/programme?code=2112
Resilience, risks and disasters	<p>The activities of the short program aim to develop fundamental skills in disaster risk reduction so that they can be integrated into professional practice. By virtue of the active pedagogical strategies favored in this program, students will be exposed to realistic, even real cases, situations and problems, and called upon to reflect in a transversal, intersectoral and multi-scalar manner on the human, organizational and societal dimensions specific to every event. This will allow them to appropriate the knowledge and practices relating to the development of resilience in the face of disasters applicable in their professional field, whether in the public, parapublic or private sector. Graduates will be able to reinvest in their professional career, whatever it may be, the skills contributing to risk management, vulnerability reduction and resilience building in the face of disasters.</p>	Short program	https://etudier.uqam.ca/programme?code=9112

Social responsibility of organizations	<p>This program trains specialists able to design, plan, implement, manage and evaluate a social responsibility program in various types of organizations, from a broader perspective of sustainable development. Its purpose is the acquisition of management and communication skills with regard to the social responsibility of organizations, according to a vision that recognizes the accountability of organizations for the consequences of their decisions and their activities (economic, environmental and social), about the world around them.</p>	Short program	https://etudier.uqam.ca/programme?code=0485
Atmospheric Sciences	<p>The objective of the master's program in atmospheric sciences is the initiation into scientific research. The research leading to the writing of the master's thesis aims to introduce the student to the research work, while deepening his knowledge on a specific subject. This program provides the student with the knowledge in physics of climate and atmosphere to meet the standards of the World Meteorological Organization and the requirements of the certification "Professional Meteorologist" (Met.P) established by the Organization for careers in environment (ECO Canada). The program aims to provide training that will allow the application of knowledge and skills acquired in various fields related to atmospheric sciences. Thus the training offered prepares both for the pursuit of postgraduate studies, as well as for access to the job market as specialists in atmospheric sciences who will work in research and development in sectors such as forecasting, weather, air quality, climatological databases, wind energy, etc.</p>	Master	https://etudier.uqam.ca/programme?code=1812
Environmental sciences	<p>The MSc in Environmental Sciences offers a multidisciplinary vision to address the complexity of current challenges related to the environment and development. In collaboration with the Institute of Environmental Sciences, the program offers several avenues of research such as forest management, ecosystem dynamics, urban environments, human health and climate change. Students work alongside academic resources as well as researchers from different disciplines. Developing critical thinking, management skills and essential scientific methods, graduates participate in the search for socially acceptable and ecologically valid solutions. They work, among other things, as project managers, eco-advisers, research officers, coordinators of organizations and managers of natural environments.</p>	Master	https://etudier.uqam.ca/programme?code=1852
Management sciences	<p>The Master of Science in Management (M.Sc.) program at ESG UQAM, with its two profiles (thesis or supervised project), aims to train high-level managers interested in major issues and current challenges, organizations. This 2nd cycle program, through its innovative, theoretical and practical content, specifically meets the needs of its students and the industry. Upon leaving, several careers are possible, including those of expert in a particular area of management, analyst, independent consultant or business advisor allowing to intervene in organizations by the transfer and application of a range of advanced management knowledge. It is also essential for the pursuit of a doctorate and an academic career. In each of the nine available specializations - organizational development, operations management, international management, social innovation, management, marketing, human resources, social and environmental responsibility, strategy - students have the opportunity to collaborate with involved professors and professionals from industry in order to develop their capacities for analysis, synthesis, intervention and communication.</p>	Master	https://etudier.uqam.ca/programme?code=1761

Earth Science	<p>Interpreting terrestrial phenomena fascinates experts in Earth sciences. Favoring project-based pedagogy, critical analysis of scientific articles and field trips, the training leads to research or professional practice. The research profile integrates students into teams specializing in geochemistry, geochronology, Quaternary geology and metallogeny, while the professional profile develops practical skills in the fields of applied geology. Highly appreciated in mineral exploration, the master's degree opens up broad employment prospects in Quebec and abroad. The graduates work as geologists, geochemists, metallogenists, soil scientists or project manager in the fields of mineral exploration, environmental rehabilitation and the realization of geological or hydrogeological studies.</p>	Master	https://etudier.uqam.ca/programme?code=3405
Geographic information systems	<p>The graduate diploma in geographic information systems shines a spotlight on a booming discipline, geomatics. It integrates the technological skills necessary for processing geospatial data, and for managing and monitoring the territory. Students develop their critical thinking skills as well as sought-after expertise in this field marked by rapid technological change. Focused on professional practice, the program is aimed at graduates in geography, urban planning, environment, geology, biology, planning, forestry, computer science, engineering or marketing.</p>	DESS	https://etudier.uqam.ca/programme?code=3246
Biochemistry	<p>Biochemistry advances many causes including research on cancer, toxicological contaminants and the design of biomaterials. The doctorate in biochemistry allows students to carry out an original research project in biomedical, toxicological and biotechnological themes, while developing their scientific autonomy as well as their theoretical and applied knowledge in the discipline. Promoting synergy between disciplines, the program trains biochemists, researchers and university professors who take an active part in the advancement of scientific discoveries. Graduates also work in government agencies, patent and regulatory agencies, medical clinics, or the pharmaceutical, biotechnology and food industries.</p>	Doctorate	https://etudier.uqam.ca/programme/doctorat-biochimie
Biology	<p>Biology is characterized by subjects spanning several scales, from molecules to ecosystems, including cells, tissues, organism, population and community. While these disciplines are often found scattered in separate programs, our PhD program in Biology covers all of these subjects. This multidisciplinary structure allows students to have a global view of biology which can give rise to very original doctoral projects, such as molecular ecology and the production of vaccines by plants. The doctorate in biology examines complex questions in the medical, biotechnological and environmental spheres such as prevention in human health, the processes of placental exchanges or the genetic improvement of plants. Renowned professors, multidisciplinary teams and cutting-edge research help develop student autonomy and advanced research skills. The program pursues training objectives in personnel management as well as in pedagogy in order to prepare doctoral students for their future careers in research or teaching. Depending on their research subject, graduates pursue careers in fields associated with the environment, ecology, pharmaceuticals, biotechnology and medical research.</p>	Doctorate	https://etudier.uqam.ca/programme/doctorat-biologie

Chemistry	Research in chemistry leads to innovative solutions in human health, energy and nanomaterials. Encouraging the autonomy and inventiveness of students, the doctorate trains researchers who participate in discoveries in all the disciplines to which chemistry contributes. The holder of the diploma will be able to defend a research project, supervise research activities and present its results and interpretations in the form of communications and publications.	Doctorate	https://etudier.uqam.ca/programme/doctorat-chimie
Environmental sciences	Experts in environmental science face complex problems that transcend disciplinary boundaries. Favoring a systems approach, the program establishes links with professors from several fields such as social sciences, chemistry, geography, biological sciences and earth and atmospheric sciences. In addition to taking courses in the field in privileged places such as the Amazon or northern Quebec, students participate in seminars on the major debates of the day and carry out their research project in an autonomous and original way. At the end of their studies, they work as a researcher, professor or consultant in international organizations, private companies, non-governmental organizations or public bodies like ministries and municipalities.	Doctorate	https://etudier.uqam.ca/programme?code=3583
Earth and Atmospheric Sciences	The understanding of the Earth system and the interaction between the geosphere, the hydrosphere and the atmosphere fascinate researchers in this discipline. Designed to develop autonomy and originality in research, the doctorate in Earth and Atmospheric Sciences leads to cutting-edge expertise in strategic sectors in this field. Thanks to multidisciplinary approaches, the program develops the essential systemic vision for the study of planetary geoscientific issues. It trains high-caliber graduates who work in particular as a researcher, professor or consultant in the fields of natural resources, land use planning, global changes and the forecasting of natural risks.	Doctorate	https://etudier.uqam.ca/programme?code=3141

21 programs