

# MASTER OF ARTS PUBLIC ADMINISTRATION SPECIALIZATION IN ENVIRONMENTAL SUSTAINABILITY

The School of Political Studies located in the Faculty of Social Science offers graduate programs leading to the Master of Arts (MA) and the Doctor of Philosophy (PhD) degrees in Public Administration.

The main objective of the master programs is to provide students with leading-edge theoretical and conceptual knowledge to enable them to understand and analyze public administration, as well as equipping them with the know-how and skills necessary for success in a constantly changing organizational environment. Emphasis is placed on the development of research skills.

The MA program aims to familiarize students with critical methods of knowledge production and to develop their capacity for conducting basic and applied research. Furthermore, they will develop the ability to extract from research the learning necessary for undertaking their responsibilities as public managers and policy analysts.

The PhD program aims to prepare students for academic and research careers. The various components of the doctoral program (courses, comprehensive examination, thesis proposal, thesis and defence) are all designed to develop the student's capacity for high level independent research in social sciences.

The programs offer two fields or concentrations in public administration: public management and public policy. These fields are not mutually exclusive, but constitute the two main components of public administration studies.

The MA program is offered both full- and part-time, whereas the PhD program is offered full-time only. The programs are offered in French and English and the use of both languages is encouraged. Students can choose the master's with thesis or the master's with research paper.

Public Administration is a participating unit in the collaborative programs in Women's Studies and in Environmental Sustainability (at the master's level). For more information on this program, see "Admission Requirements".

The guiding objective of the collaborative program in Environmental Sustainability is to provide graduate students with the knowledge and skills needed to identify and analyze the economic, legal, policy and scientific dimensions of environmental problems, and to employ an evidence-based approach to develop rational policy options for addressing those problems.

The programs are governed by the general regulations (<http://www.grad.uottawa.ca/Default.aspx?tabid=1807>) in effect for graduate studies.

## Admission Requirements

For the most accurate and up to date information on application deadlines, language tests and other admission requirements, please visit

the specific requirements (<https://www.uottawa.ca/graduate-studies/programs-admission/apply/specific-requirements/>) webpage.

Admission to the graduate program in Public Administration is governed by the general regulations in effect for graduate studies.

To be considered for admission, applicants must hold a bachelor's degree with specialization or a major in public administration or in a related discipline with a minimum average of 75% (B+).

## MA Program

Students can choose the MA with thesis or the MA with research paper.

## Collaborative Program in Environmental Sustainability

To be accepted into the collaborative program, the student must:

- Be admitted first into the MA program in Public Administration.
- Submit the collaborative program enrollment form (<https://www.uottawa.ca/environment/grad-programs/specialization/apply/>).
- Provide a reference letter from a professor that confirms that s/he agrees to supervise the student's major research paper or thesis in the context of the collaborative program.
- Submit a letter of intention that identifies the topic or the research question and explains why he or she wishes to pursue the collaborative program.

Students may take the collaborative program in environmental sustainability in English or in French.

## Language Requirements

An active knowledge of French and English is essential. All students must successfully complete the course PAP 6502 given in French only and must be able to read texts in French and in English.

Students whose first language is other than French or English must provide proof in their application of their level of competence in these languages. The Public Administration Program reserves the right to conduct an interview and to require a test in either language. If a student's research interests require comprehension of a language other than French or English, the Public Administration Program may require proof of such competency.

In accordance with the University of Ottawa regulation, students have a right to produce their work, their thesis, and to answer examination questions in French or in English.

## Program Requirements Master's with Thesis

Enrollment is limited to a maximum of three courses/seminars per term, not including the thesis proposal.

### Compulsory Courses:

PAP 6103	Research Methods	3 Units
PAP 6502	Gouvernance démocratique <sup>1</sup>	3 Units
3 course units from:		3 Units
PAP 6110	Theories of Public Management	
PAP 6111	Theories of Public Policy	

3 elective units in public administration (PAP) or in other programs at the graduate level 3 Units

#### Thesis Proposal:

PAP 6998 Thesis Proposal

#### Thesis:

THM 7999 Master's Thesis<sup>2</sup>

#### Note(s)

- <sup>1</sup> PAP 6502, offered only in French, is compulsory for all students. Language support is available to those who might need it.
- <sup>2</sup> Presentation and defense of a thesis (THM 7999) based on an original research carried out under the direct supervision of a faculty member of the Department.

## Thesis Proposal

Enrollment in the thesis proposal (PAP 6998) should take place as early as possible, ideally in the first term but by the third term at the latest. Students should begin the process of selecting a thesis topic and potential supervisor immediately upon commencing the program. The topic and supervisor are selected in consultation with an adviser and must be registered no later than the end of the second term in the program. Once the topic and supervisor have been chosen, the thesis proposal is prepared with the help of the supervisor.

The defence of the topic, which is the only requirement of PAP 6998, must be completed before the end of the third term of enrollment (preferably earlier). Once the topic has been defended, students are allowed to enroll for the thesis (THM 7999).

The thesis proposal is assessed by a committee, composed of the thesis supervisor and another professor chosen by the professor in charge of graduate studies in public administration in consultation with the student and the thesis supervisor.

## Thesis

The thesis (THM 7999) is prepared under the direction of the supervisor and evaluated following submission by a committee of professors proposed by the professor in charge of graduate studies in public administration. It is normally approximately twenty-five thousand words (between 80 and 120 pages).

The thesis must demonstrate the student's capacity for scholarly analysis of a specific subject. It does not have to be an exhaustive study of the kind expected of a doctoral dissertation, but it must display a capacity for rigorous analysis of a specific subject. It is judged as much for its methodological quality as for its contribution to knowledge.

## Master's with Research Paper

Enrollment is limited to a maximum of three courses/seminars per term, not including the thesis proposal.

#### Compulsory Courses:

PAP 6103 Research Methods 3 Units

PAP 6502 Gouvernance démocratique<sup>1</sup> 3 Units

3 course units from: 3 Units

PAP 6110 Theories of Public Management

PAP 6111 Theories of Public Policy

9 elective course units in public administration (PAP) or in other programs at the graduate level 9 Units

#### Research Paper:

PAP 7998 Research Paper<sup>2</sup> 6 Units

#### Note(s)

- <sup>1</sup> PAP 6502, offered only in French, is compulsory for all students. Language support is available to those who might need it.
- <sup>2</sup> Presentation of a research paper based on an original research carried out under the direct supervision of a faculty member of the Department. Enrollment for the research paper is permitted in the second term. The research paper is approximately 12,000 words (50 pages) in length. It is evaluated by the supervisor and by another professor appointed by the professor in charge of graduate studies. Research papers are graded alpha and the grade (the average of both evaluations) appears on the transcript.

## Collaborative Program in Environmental Sustainability

Students in the collaborative program must complete the requirements of their primary program and those of the collaborative program.

Students enrolled in the collaborative program in environmental sustainability must complete and pass the following courses:

#### Compulsory Course:

EVD 5100 Seminar in Environmental Sustainability<sup>1,2</sup> 3 Units

One elective course in environmental sustainability (EVD) at the graduate level<sup>2,3</sup> 3 Units

Thesis or Major Research Paper<sup>4</sup>

#### Note(s)

- <sup>1</sup> This course replaces the elective course in the MA with thesis option.
- <sup>2</sup> These courses replace two of the three elective courses in the MA with research paper option.
- <sup>3</sup> The elective course in environmental sustainability (EVD) is required only for the MA with research paper option.
- <sup>4</sup> Students must also write their Major Research Paper or Thesis in the area of environmental sustainability. The collaborative program committee will determine if the student's research topic conforms to this requirement.

## Co-op Option

In collaboration with the University of Ottawa's co-op office, a co-op option is offered to a limited number of students in the master's with research paper. This option gives selected students the opportunity to acquire practical work experience by completing two one-term (four months) work placements, normally in the public service.

There are two possibilities within the co-op option. One is to complete the first co-op work placement in the spring term of the first year and the second placement in the winter term of the second year. The other possibility is to complete two consecutive work placements over the spring term of the first year and the fall term of the second year. The eight-month placement enables students to engage in a longer project within the host organization and thus acquire a more valuable work experience. In both cases, students who enroll in the co-op option will obtain twelve units (six units per work placement) for their work experience and co-op reports. Each work term is graded P/F (Pass or Fail), based on the employer's report and on a written report completed

by the student. The student reports will be evaluated by a professor in the program (who also serves as the program's representative on the University's co-op Committee).

The units awarded for co-op work terms may not be used to obtain equivalences for other courses. In other words, the co-op units are additional to the minimum requirements of the MA degree.

To remain enrolled in the co-op option, students must:

- maintain full-time status;
- maintain a 7.0 grade point average;
- obtain a passing grade for each work term.

## Transfer from Master's to PhD

Students enrolled in the master's program with thesis may be allowed to transfer to the PhD program without being required to write a master's thesis. For additional information, please consult the "Admission Requirements" section of the PhD program.

## Duration of Program

Full-time students are expected to fulfill all requirements of the master's with thesis and the master's with research paper with co-op option within two years. Full-time students are expected to fulfill all requirements of the master's with research paper (without co-op) within 16 months. The maximum time permitted is four years from the date of initial enrollment in the program, whether full- or part-time.

## Minimum Standards

The passing grade in all courses is C+. Students who fail two courses (equivalent to 6 units), the thesis proposal, the research paper, the thesis or whose progress is deemed unsatisfactory are required to withdraw.

## Research

### Research Fields & Facilities

Located in the heart of Canada's capital, a few steps away from Parliament Hill, the University of Ottawa is among Canada's top 10 research universities.

uOttawa focuses research strengths and efforts in four Strategic Areas of Development in Research (SADRs):

- Canada and the World
- Health
- e-Society
- Molecular and Environmental Sciences

With cutting-edge research, our graduate students, researchers and educators strongly influence national and international priorities.

## Research at the Faculty of Social Sciences

The Faculty of Social Sciences represents a place of excellence in knowledge creation, research and training. Driven by both disciplinary and interdisciplinary perspectives, research at the Faculty is rich, innovative and varied, contributing to the depth of understanding and breadth of discussions on a variety of issues nationally and internationally. This research, whether it be fundamental, theoretical, applied or action-oriented, is generated by our renowned expertise, ultimately culminating

in applications designed to influence individual communities and the betterment of society.

We have identified five research themes which collectively represent a large proportion of the research undertaken at the Faculty of Social Sciences:

- International Studies
- Francophonie
- Public Policy
- Health, Well-Being
- Justice, Society

## Facilities, Research Centres and Institutes at the Faculty of Social Sciences

Centre for Interdisciplinary Research on Citizenship and Minorities (CIRCEM) (<http://socialsciences.uottawa.ca/circem/>), Centre for International Policy Studies (CIPS) (<http://www.cips-cepi.ca/>), Centre for Public Management and Policy (<http://socialsciences.uottawa.ca/public-management-policy/>), Centre for Research on Educational and Community Service (CRECS) (<http://crecs.uottawa.ca/>), Centre on Governance (COG) (<http://socialsciences.uottawa.ca/governance/>), Human Rights Research and Education Centre (affiliation) (<http://cdp-hrc.uottawa.ca/en/>), Institute of Feminist and Gender Studies (<http://socialsciences.uottawa.ca/feminist-gender-studies/>) and Institute for Science, Society and Policy (<https://issp.uottawa.ca/en/>).

For more information, refer to the list of faculty members and their research fields on Uniweb (<https://uniweb.uottawa.ca/#!arts/themes>).

## Courses

### PAP 6101 Globalization and Continental Integration (3 units)

Examination of the impacts of socio-economic, technological and cultural globalization on our systems of governance both internationally and domestically. Analysis of the role of the nation-state in a context of simultaneous decentralization and internationalization, with a particular focus on global institutions and North American integration.

**Course Component:** Lecture

### PAP 6102 Democratic Governance (3 units)

This seminar provides an examination of how democratic governments structure their decision-making processes for effectiveness, representation and accountability. A particular focus of this seminar is a critical evaluation of the New Public Management reforms, and an in-depth review of different models of government intervention and policy-making from a comparative perspective.

**Course Component:** Lecture

### PAP 6103 Research Methods (3 units)

Study of different methodological approaches used in public administration, conceptual tools and research methods (discourse analysis, content analysis, quantitative methods -statistics and probability

**Course Component:** Seminar

**PAP 6110 Theories of Public Management (3 units)**

(Core course for students in the field of public management).

Presentation of major components of public management (managerial roles and functions, planning, organizational cultures, leadership and motivation, human resources managements, change management, etc.). Study of the main theoretical approaches in public management, with the aim of relating them critically to one another and undertaking a critical analysis of the methodological and theoretical contributions of the various approaches.

**Course Component:** Seminar

**PAP 6111 Theories of Public Policy (3 units)**

(Core course for students in the field of public policy). Presentation of the different stages of the policy process, notably emergence, development, implementation and evaluation, as well as the influence of institutions, ideas and interests on public policy. The objective is to present the main theoretical approaches (neo-institutionalism, post-positivism, political economy, etc.) with the aim of relating them critically to one another and critically analyzing their methodological and theoretical contributions.

**Course Component:** Seminar

**PAP 6120 Ethics in the Public Sector (3 units)**

Study of the theoretical and empirical issues related to ethics in the public sector, analysis of the literature on the philosophical and political foundations of ethical reflection and the literature on ethics and public administration. Themes addressed include citizenship and democracy, responsibility and accountability, public interest, contemporary issues in ethics in the public sector and social justice in public decision-making.

**Course Component:** Lecture

**PAP 6121 Public Administration: Coordination and Consistency (3 units)**

Examination of the influence of structural and social processes on the theory and practice of public administration. The course will examine the mechanisms and issues of coordination in its multiple forms: multi-level coordination, coordination across the public, private and community sectors, horizontal and vertical coordination. The course will also address the challenges and issues of consistency in the process of public policy development and implementation and will examine a number of cases and international comparisons.

**Course Component:** Lecture

**PAP 6122 Culture and Power in Public Organisations (3 units)**

Informal dimensions of public organizations, including organizational cultures and power relations that mesh with organizational issues. Sociopolitical analysis of organizations to improve understanding of factors of inertia, resistance and blockage that influence, to different degrees, possibilities for innovation and change in public administration.

**Course Component:** Lecture

**PAP 6130 Selected Themes in Public Administration (3 units)**

**Course Component:** Seminar

**PAP 6501 Mondialisation et intégration continentale (3 crédits)**

Examen de l'impact sur la gouvernance à l'échelle internationale et nationale de la mondialisation des secteurs socio-économique, technologique et culturel. Analyse du rôle joué par l'état-nation dans un contexte de décentralisation et d'internationalisation simultanées, en mettant particulièrement l'accent sur les institutions mondiales et l'intégration nord-américaine.

**Volet :** Cours magistral

**PAP 6502 Gouvernance démocratique (3 crédits)**

Examen des mesures prises par les gouvernements démocratiques pour s'assurer que les processus de prise de décision répondent aux critères d'efficacité, de représentativité, et d'imputabilité. Accent sur l'examen critique des réformes récentes des modes de gestion à la fonction publique et étude approfondie des différents modes d'intervention gouvernementale et d'élaboration de politiques d'un point de vue comparatif.

**Volet :** Séminaire

**PAP 6503 Méthodes de recherche (3 crédits)**

Étude de différentes approches méthodologiques utilisées en administration publique, outils conceptuels et méthodes de recherche (analyse de discours, analyse de contenu, méthodes quantitatives – statistiques et probabilités

**Volet :** Séminaire

**PAP 6510 Théories en gestion publique (3 crédits)**

(Cours noyau pour les étudiants dans le champ de la gestion publique).

Présentation des grandes composantes de la gestion publique (rôles et fonctions managériels, planification, cultures organisationnelles, leadership et motivation, gestion des ressources humaines, gestion du changement, etc.). Étude des principales approches théoriques de la gestion publique, dans le but de les relier et d'entreprendre l'analyse critique des apports méthodologiques et théoriques des diverses approches.

**Volet :** Séminaire

**PAP 6511 Théories en politiques publiques (3 crédits)**

(Cours noyau pour les étudiants dans le champ des politiques publiques).

Présentation des différentes phases de l'analyse des politiques publiques, notamment celles de l'émergence, de l'élaboration, de la mise en œuvre et de l'évaluation, ainsi que de l'influence des institutions, des idées et des intérêts sur les politiques publiques. L'objectif sera de présenter les principales approches théoriques de politiques publiques (néo-institutionnalisme, post-positivisme, économie politique, etc.), de les relier de façon critique et d'entreprendre une analyse des apports méthodologiques et théoriques des diverses approches.

**Volet :** Séminaire

**PAP 6520 Éthique publique (3 crédits)**

Étude des enjeux théoriques et empiriques reliés à l'éthique publique, analyse de la littérature sur les fondements philosophiques et politiques de la réflexion éthique et de la littérature sur l'éthique et l'administration publique. Les thèmes abordés incluent la citoyenneté et la démocratie, la responsabilité et la reddition de comptes, l'intérêt public, les enjeux éthiques publics contemporains et la justice sociale dans le contexte de la prise de décision publique.

**Volet :** Cours magistral

**PAP 6521 Administration publique : Coordination et cohérence (3 crédits)**

Examen de l'influence des processus structurels et sociaux sur la théorie et la pratique de l'administration publique. Le cours traitera des mécanismes et enjeux de coordination dans ses multiples formes : coordination à niveaux multiples, coordination entre secteurs publics, privés et communautaires, coordination horizontale et verticale. Le cours abordera également les défis et enjeux de cohérence du processus de production et la mise en œuvre des politiques publiques et examinera certains cas et comparaisons internationales.

**Volet :** Cours magistral

**PAP 6522 Cultures et pouvoir dans les organisations publiques (3 crédits)**

Dimension informelle de l'organisation publique, à savoir les cultures organisationnelles et les relations de pouvoir qui se conjuguent invariablement aux enjeux organisationnels. Lecture sociopolitique de l'organisation pour mieux saisir les facteurs d'inertie, de résistance et de blocage qui pèsent, à des degrés divers, sur les possibilités d'innovation et de changement dans l'administration publique.

**Volet :** Séminaire

**PAP 6530 Thèmes choisis en administration publique (3 crédits)**

**Volet :** Séminaire

**PAP 6901 Projet / Project (3 crédits / 3 units)**

Étude approfondie d'un domaine de la gestion publique ou de la gouvernance. Étude de cas ou projet en collaboration avec une ou plusieurs agences du secteur public. Rapport écrit. Noté S (satisfaisant) ou NS (non satisfaisant) par le professeur responsable. / In-depth study of a particular area of public management on governance. Case study or project to be conducted in collaboration with one or more public sector organizations. Written report. Graded S (Satisfactory) / NS (Not satisfactory).

**Volet / Course Component:** Cours magistral / Lecture

**PAP 6980 Lecture dirigée / Directed Readings (3 crédits / 3 units)**

**Volet / Course Component:** Séminaire / Seminar

**PAP 6998 Projet de thèse / Thesis Proposal**

**Volet / Course Component:** Recherche / Research

**PAP 7998 Mémoire / Research Paper (6 crédits / 6 units)**

L'inscription au mémoire est permise dès la deuxième session d'études. Le mémoire compte environ douze mille mots (50 pages). Il est évalué par la personne qui l'a dirigé et par un autre professeur nommé par le responsable des études supérieures. Le mémoire est noté alpha et la note (la moyenne des deux évaluations) paraîtra sur le relevé de notes. / Registration for the research paper is permitted in the second session. The research paper is approximately 12,000 words (50 pages) in length. It is evaluated by the supervisor and by another professor appointed by the professor in charge of graduate studies. Research papers are graded alpha and the grade (the average of both evaluations) appears on the transcript.

**Volet / Course Component:** Recherche / Research

**PAP 8111 Research Seminar in Public Administration II (3 units)**

Preparation for writing the thesis (including the thesis proposal) in public administration. Continuation of the themes presented in the previous seminar (PAP 8510 Séminaire de recherche en administration publique I). Different stages of research in public management and public policy, notably the development of the research question, literature review, theoretical framework, methodological approach and the development of empirical data. Different strategies of knowledge diffusion (conferences, articles, book chapters, etc.) and preparation for the thesis proposal defence.

**Course Component:** Seminar

Prerequisite: PAP 8510

**PAP 8510 Séminaire de recherche en administration publique I (3 crédits)**

Préparation à la rédaction de la thèse (incluant le projet de thèse) en administration publique. Présentation des dimensions ontologiques (qu'est-ce qui compose le domaine du savoir ?) et épistémologique (comment savons-nous ce que nous savons ?) caractérisant la recherche en gestion publique et en politiques publiques. Initiation aux différentes étapes de la production de connaissances (formulation de la problématique de recherche, revue de littérature, cadre théorique, etc.).

**Volet :** Séminaire

**PAP 8511 Séminaire de recherche en administration publique II (3 crédits)**

Préparation à la rédaction de la thèse (incluant le projet de thèse) en administration publique. Poursuite de l'analyse des thèmes abordés au séminaire précédent (PAP 8510 Séminaire de recherche en administration publique I). Initiation aux différentes étapes de la production des connaissances, notamment la formulation de la problématique de recherche, la revue de littérature, le cadre théorique, la démarche méthodologique et la production des données empiriques. Initiation aux différentes stratégies de diffusion des connaissances (conférences, rédaction d'articles, de chapitres de livre, etc.), avec un souci particulier pour la préparation à la soutenance du projet de thèse.

**Volet :** Séminaire

Préalable: PAP 8510

**PAP 9310 Public Management (3 units)**

In-depth study of the field of public management. Presentation of the formal dimensions (direction, organization, budgeting, strategy, planning, control, etc.) and informal dimensions (leadership, motivation, mobilization, organizational culture, coordination, power relations, etc.) in public management. Critical analysis of the principal theoretical approaches and tendencies of public management and their theoretical and methodological contributions.

**Course Component:** Seminar

**PAP 9311 Public Policy (3 units)**

In-depth study of the field of public policy. Different stages in the policy process (emergence, development, implementation and evaluation). The objective is to present the main theoretical approaches and tendencies (neo-institutionalism, post-positivism, political economy, etc.), to relate them critically to one another and to critically analyze their methodological and theoretical contributions.

**Course Component:** Seminar

**PAP 9320 Seminar in Major Field: Public Management (3 units)**

This course deepens the knowledge acquired in the course PAP 9310 Public Management for doctoral candidates with public management as the Major Field.

**Course Component:** Seminar

**PAP 9330 Seminar in Major Field: Public Policy (3 units)**

This course deepens the knowledge acquired in the course PAP 9311 Public Policy for doctoral candidates with public policy as the Major Field.

**Course Component:** Seminar

**PAP 9710 Gestion publique (3 crédits)**

Étude approfondie du domaine de la gestion publique. Présentation des composantes formelles (direction, organisation, budgétisation, stratégie, planification, contrôle, etc.) et informelles (leadership, motivation, mobilisation, culture organisationnelle, coordination, relations de pouvoir, etc.) en gestion publique. Analyse critique des principales approches et courants théoriques de la gestion publique et de leurs apports théoriques et méthodologiques.

**Volet :** Séminaire

**PAP 9711 Politiques publiques (3 crédits)**

Étude approfondie du domaine des politiques publiques. Différentes phases de l'analyse des politiques publiques (émergence, élaboration, mise en œuvre et évaluation). L'objectif sera de présenter les principales approches et courants théoriques dans le domaine des politiques publiques (néo-institutionnalisme, post-positivisme, économie politique, etc.), de les relier de façon critique et d'entreprendre une analyse de leurs apports théoriques et méthodologiques.

**Volet :** Séminaire

**PAP 9720 Séminaire dans le champ majeur : Gestion publique (3 crédits)**

Ce cours approfondira les connaissances acquises lors du cours PAP 9710 Gestion publique pour les doctorants avec gestion publique comme champ majeur.

**Volet :** Séminaire

**PAP 9730 Séminaire dans le champ majeur : Politiques publique (3 crédits)**

Ce cours approfondira les connaissances acquises lors du cours PAP 9711 Politiques publiques pour les doctorants dont le champ majeur est politiques publiques.

**Volet :** Séminaire

**PAP 9980 Lecture dirigée / Directed Readings (3 crédits / 3 units)**

**Volet / Course Component:** Séminaire / Seminar

**PAP 9988 Examen de synthèse - champ mineur / Comprehensive Examination - Minor Field**

L'examen de synthèse a pour but de vérifier les connaissances dans le champ mineur. Il a lieu généralement vers la fin de la troisième session d'inscription au programme. / The comprehensive examination is aimed at evaluating the student's knowledge of their minor field.

**Volet / Course Component:** Cours magistral / Lecture

**PAP 9989 Examen de synthèse - champ majeur / Comprehensive Examination - Major Field**

L'examen de synthèse a pour but de vérifier les connaissances dans le champ majeur. Il a lieu généralement vers la fin de la troisième session d'inscription au programme. / The comprehensive examination is aimed at evaluating the student's knowledge of their major field.

**Volet / Course Component:** Cours magistral / Lecture

**PAP 9997 Projet de thèse de doctorat / Thesis proposal**

**Volet / Course Component:** Recherche / Research

**EVD 5100 Seminar in Environmental Sustainability (3 units)**

Overview of environmental sustainability issues using climate change as an example. Application of integrated analyses based on concepts in science, law, economics and policy to devise policy solutions. The debate about the scientific evidence for climate change and international efforts to negotiate an agreement. The economic, political and social dimensions of climate change and measures taken both nationally and internationally to mitigate its effects.

**Course Component:** Seminar

**EVD 5101 Economics of Environmental Law and Policy (3 units)**

Environmental issues and the environmental policy framework from an economics perspective. Review of the underlying theory in relation to economic concepts such as efficiency, market failure, externalities, cost-benefit, and valuation. Overview of macroeconomic topics such as economic growth and green accounting, and their relation to law and policy. Application of these theoretical concepts to various environmental challenges, from climate change and energy regulation to managing ecosystem services and conserving biodiversity. Policy options for managing environmental challenges, from traditional command and control regulation to economic instruments such as environmental taxation, and cap and trade programs. Evaluation of the environmental, social, and economic effectiveness of the various policy options, and integration of economic theory into environmental policy development.

**Course Component:** Lecture

**EVD 5109 Applied Environmental Sustainability (3 units)**

Uses an environmental sustainability case study, such as climate change, to learn how to synthesize information about a problem from multiple disciplinary perspectives, to critically evaluate such information using rigorous methodological approaches, and to design and evaluate policy or regulatory solutions.

**Course Component:** Seminar

**EVD 5111 Capstone Seminar in Environmental Sustainability (3 units)**

Involves partnering with organization(s) working on a sustainability issue. Students work in interdisciplinary teams to identify the scientific, economic, legal and social dimensions of a particular environmental problem, evaluate a set of candidate solutions, and recommend an approach.

**Course Component:** Seminar

**EVD 5113 Foundations of Environmental Policy (3 units)**

Study of the key political and administrative factors affecting the formulation and implementation of environmental policy, including democratic institutions, various methods for citizen and stakeholder engagement and their influence on the decision-making process in government, public opinion and the framing of policy problems, values and the use of scientific evidence in policy-making, lobbying and the role of interest representation, federalism and multi-level environmental governance, and the international governance of environmental problems. Case studies will place Canada in a comparative context and explore the importance of political factors across areas of environmental policy.

**Course Component:** Seminar

**EVD 5114 Professional Skills for Environmental Sustainability (1.5 unit)**

Oral and written communications skills, including presenting to parliamentary committees, preparing memos to cabinet, writing editorials, doing media interviews, and producing interdisciplinary public policy reports. Project and process management skills, including multi-stakeholder processes.

**Course Component:** Seminar

**EVD 5121 Foundations of Environmental Science (3 units)**

Provides students with a thematic understanding of the current state of environmental science. Major themes include: the set of environmental issues that are currently of major concern in Canada and abroad; the range of scientific approaches currently employed to understand and predict the effects of human activities on ecosystems; the nature of environmental science evidence; and how environmental sustainability is characterized from the perspective of environmental science.

**Course Component:** Seminar

**EVD 5122 Foundations of Environmental Economics (3 units)**

Key elements of economics including formal models and their underlying assumptions as they relate to the development of sustainability policy. Covers concepts such as public goods, market failure, non-market valuation, incentives, welfare economics, regulation, the equity-efficiency trade-off and market-based instruments. The course explains how fundamental economic concepts, particularly their advantages and limitations, are used to analyze issues at the interface of the economy and the environment. Examines renewable (e.g., fisheries, forests) and non-renewable (e.g., oil, gas, minerals) resource management and other topics (e.g., climate change, ozone depletion, cap and trade) in applied environmental economics. Explores the institutions and trade-offs that individuals and governments face in the context of sustainability policy.

**Course Component:** Seminar

**EVD 5123 Evidence Synthesis and Evaluation (3 units)**

Reviews different understandings of what constitutes research, both as it pertains to the production of evidence and to the evaluation of existing evidence relating to policy, to regulatory and statutory interventions and to identifying evidence gaps. Students learn research methodologies to design research so as to maximize its evidentiary value (given existing constraints); they will also learn to synthesize and assess the evidentiary value of existing research.

**Course Component:** Seminar

**EVD 5124 Foundations of Environmental Law (3 units)**

Foundations of environmental law, including theory of sustainability, constitutional division of powers, approaches to regulation of environmental issues, including examples of legal frameworks for different environmental problems, and access to justice.

**Course Component:** Seminar

**EVD 5500 Séminaire en durabilité de l'environnement (3 crédits)**

Survolt des enjeux en durabilité de l'environnement en se servant du changement climatique comme exemple. Application d'analyses intégrant des concepts en sciences, en droit, en science économique et en études politiques. Le débat au sujet de la preuve scientifique du changement climatique et les efforts sur le plan international pour négocier une entente. Les dimensions économiques, sociales et politiques du changement climatique et les mesures à ce jour pour atténuer ses effets, au niveau international et au niveau national.

**Volet :** Séminaire

**EVD 5501 Approche économique et le droit de l'environnement (3 crédits)**

Les enjeux environnementaux et le système de réglementation du point de vue de la science économique. Étude de la théorie qui sous-tend certains concepts économiques, tels l'efficacité, la défaillance du marché, les externalités et la valuation. Survolt des concepts macroéconomiques, tels la croissance économique et la comptabilité environnementale. Application de ces concepts théoriques aux défis environnementaux tels le changement climatique, la réglementation de l'énergie, la gestion des services écologiques et la conservation de la biodiversité. Les divers outils de réglementation pour la gestion des défis liés à l'environnement, incluant la réglementation traditionnelle de type « commande et contrôle », les moyens économiques tels que la taxation environnementale et les systèmes de droits d'échanges. Évaluation de l'efficacité environnementale, sociale et économique des diverses approches, et intégration de la théorie économique dans le développement de la réglementation environnementale.

**Volet :** Cours magistral

**EVD 5509 Développement durable appliqué (3 crédits)**

Étude de cas en développement durable (changements climatiques, par exemple) pour apprendre à synthétiser l'information sur un problème à partir de plusieurs perspectives disciplinaires, pour évaluer l'information selon un schéma critique, en faisant usage de méthodes rigoureuses, et pour concevoir et évaluer des politiques ou règlements.

**Volet :** Séminaire

**EVD 5511 Séminaire d'intégration sur le développement durable (3 crédits)**

Partenariat avec des organisations travaillant en développement durable. Les étudiants forment des équipes multidisciplinaires pour étudier les dimensions scientifiques, économiques, juridiques et sociales d'un problème environnemental particulier, pour évaluer un éventail de solutions possibles et pour recommander les mesures à prendre.

**Volet :** Cours magistral

**EVD 5513 Rudiments des politiques environnementales (3 crédits)**

Étude des principaux facteurs politiques et administratifs influençant la formulation et la mise en oeuvre des politiques environnementales, y compris les institutions démocratiques, les méthodes de participation des citoyens et des parties prenantes et leur influence sur les processus décisionnels des gouvernements, l'opinion publique et la définition des problèmes, le rôle des valeurs et de la science dans la formulation des politiques, le lobbying et la représentation des intérêts, le fédéralisme et la gouvernance multi-niveaux des enjeux environnementaux, et la politique internationale de l'environnement. Des études de cas situeront le Canada dans une perspective comparée et exploreront l'importance de ces facteurs politiques dans divers secteurs des politiques environnementales.

**Volet :** Cours magistral

**EVD 5514 Compétences professionnelles pour le développement durable (1.5 crédit)**

Compétences orales et écrites en communication, notamment les présentations aux comités parlementaires, la préparation de mémoires au cabinet, la rédaction d'éditoriaux, les entrevues médiatiques et la production de rapports multidisciplinaires sur les politiques publiques. Gestion de projet et de processus faisant intervenir de nombreux joueurs.

**Volet :** Cours magistral

**EVD 5521 Rudiments des sciences de l'environnement (3 crédits)**

Donne aux étudiants une compréhension thématique de l'état actuel des sciences environnementales. Principaux thèmes : éventail des enjeux environnementaux d'importance au Canada et à l'étranger; les démarches scientifiques déployées pour comprendre et prédire les conséquences des activités humaines pour les écosystèmes; la nature des preuves apportées par les sciences de l'environnement; la perspective des sciences de l'environnement sur le développement durable.

**Volet :** Cours magistral

**EVD 5522 Rudiments de l'économie de l'environnement (3 crédits)**

Principaux éléments de l'économie, y compris les modèles économiques officiels et les présuppositions afférentes à l'élaboration de politiques de développement durable. Étude de divers concepts : patrimoine commun; échec des marchés; non évaluation des valeurs courantes; mesures incitatives; économie du bien-être; réglementation; équilibre entre équité et efficacité; instruments reposant sur les mécanismes de marché. On examinera plus en détail les concepts fondamentaux de l'économie et leurs avantages et inconvénients pour l'examen des enjeux au carrefour de l'économie et de l'environnement. Étude de la gestion des ressources renouvelables (pêches, forêts, etc.) et non renouvelables (pétrole, gaz, minerai, etc.) et d'autres sujets en économie de l'environnement appliquée (ex. changements climatiques, destruction de la couche d'ozone, programmes de plafonnement et d'échange). Étude des institutions et programmes de compensation auxquels sont confrontés les individus et les gouvernements dans le contexte des politiques de développement durable.

**Volet :** Cours magistral

**EVD 5523 Synthèse et évaluation de données probantes (3 crédits)**

La recherche vise soit à produire des données probantes, soit à évaluer les données probantes existantes en ce qu'elles ont trait à des interventions politiques, réglementaires et étatiques, y compris les lacunes en la matière. Ainsi, les étudiants acquièrent les compétences nécessaires qui leur permettent de concevoir un programme de recherche de façon à en optimiser la valeur probante (en fonction des contraintes existantes) et de synthétiser les résultats de recherches existantes et d'évaluer leur valeur probante.

**Volet :** Cours magistral

**EVD 5524 Rudiments du droit de l'environnement (3 crédits)**

Rudiments du droit de l'environnement, y compris la théorie du développement durable, la division constitutionnelle des pouvoirs, les démarches visant à réglementer les questions environnementales, avec exemples de cadres légaux pour différents problèmes environnementaux et accès à la justice.

**Volet :** Séminaire

**EVD 6001 Stage coop I / Co-Op Work Term I (6 crédits / 6 units)**

Expérience en milieu de travail. Évalué P (réussite) / F (échec) par un professeur du programme selon les résultats du rapport écrit et l'évaluation du superviseur de stage. Préalable : permission du responsable des études supérieures. / Experience in a workplace setting. Evaluated P (Pass) / F (Fail) by a professor in the program based on the written report and the evaluation of the internship supervisor.

**Volet / Course Component:** Stage / Work Term

**EVD 6002 Stage coop II / Co-Op Work II (6 crédits / 6 units)**

Expérience en milieu de travail. Évalué P (réussite) / F (échec) par un professeur du programme selon les résultats du rapport écrit et l'évaluation du superviseur de stage. Préalable : permission du responsable des études supérieures. / Experience in a workplace setting. Evaluated P (Pass) / F (Fail) by a professor in the program based on the written report and the evaluation of the internship supervisor.

**Volet / Course Component:** Stage / Work Term

**EVD 6112 Selected Topics in Environmental Sustainability (3 units)**

In-depth examination of a question or topic linked to new trends or research areas in environmental sustainability.

**Course Component:** Lecture

**EVD 6512 Thèmes choisis en durabilité de l'environnement (3 crédits)**

Analyse approfondie d'une problématique ou d'une question liée aux nouvelles tendances en recherche ou aux nouveaux thèmes de recherche en durabilité de l'environnement.

**Volet :** Cours magistral

**EVD 6912 Thèmes choisis en durabilité de l'environnement / Selected Topics in Environmental Sustainability (3 crédits / 3 units)**

Analyse approfondie d'une problématique ou d'une question liée aux nouvelles tendances en recherche ou aux nouveaux thèmes de recherche en durabilité de l'environnement. / In-depth examination of a question or topic linked to new trends or research areas in environmental sustainability.

**Volet / Course Component:** Cours magistral / Lecture

Préalable : connaissance passive de l'anglais. / Prerequisite: passive knowledge of French

**EVD 6932 Lectures dirigées en durabilité de l'environnement / Directed Readings in Environmental Sustainability (3 crédits / 3 units)**

Cours individuel ayant pour objectif d'approfondir les connaissances de l'étudiant dans un domaine particulier ou de lui permettre de se familiariser avec un nouveau domaine. Le sujet est déterminé et développé en consultation avec le professeur responsable et en conformité avec les directives de l'Institut de l'environnement. Le travail remis dans ce cours doit être différent de ce qui a pu être soumis dans d'autres cours, y compris le projet de recherche, la thèse ou le mémoire. On permet un maximum d'un cours de lectures dirigées par étudiant et la permission n'est accordée que dans des circonstances exceptionnelles. / Individual course aimed at deepening a student's knowledge of a particular area or at gaining knowledge of a new area. The topic is selected and developed in consultation with the supervising professor in accordance with institute guidelines. The work submitted for this course must be different from that submitted for other courses, including the research proposal, the thesis or the research paper. Maximum of one directed readings course per student, and permission is granted only under exceptional circumstances.

**Volet / Course Component:** Recherche / Research

Préalable: Connaissance passive de l'anglais. / Prerequisite: Passive knowledge of French.

**EVD 6999 Mémoire / Research Paper (6 crédits / 6 units)**

**Volet / Course Component:** Recherche / Research

**EVD 7997 Projet de thèse / Thesis Proposal**

**Volet / Course Component:** Recherche / Research

**EVD 8100 Theory and Practice in Environmental Sustainability (3 units)**

Characterization of environmental sustainability from the perspective of economics, political science, environmental science, and law. Demonstration of how often-divergent perspectives and values of stakeholders from various backgrounds frame both sustainability problems themselves, and acceptable solutions.

**Course Component:** Seminar

**EVD 8500 Théorie et pratique en durabilité environnementale (3 crédits)**

La caractérisation de la durabilité environnementale du point de vue de la science économique, de la science politique, de la science environnementale et du droit. Démonstration de comment les perspectives et les valeurs divergentes des parties prenantes de divers horizons définissent à la fois les problèmes et les solutions acceptables en durabilité.

**Volet :** Séminaire

**EVD 8901 Conception de recherche et méthodologie pour la recherche en durabilité de l'environnement / Research Design and Methods for Environmental Sustainability (3 crédits / 3 units)**

Vue d'ensemble des méthodes de recherche employées dans les quatre domaines principaux de la durabilité (science de l'environnement, droit, politique et économie). À l'aide d'études de cas, examen des types d'inférences causales que l'on peut ou ne peut pas tirer d'un plan de recherche, les menaces à la déduction valable et les plans de recherche pouvant atténuer ces menaces. Accent particulier sera mis sur la relation entre les conceptions de recherche et la force de l'inférence causale. / Overview of research methods employed in the four main subject areas underlying sustainability (environmental science, law, policy and economics). Through case studies, examination of the kinds of causal inferences one can and cannot draw from a research design, threats to valid inference, and research designs that can mitigate those threats. Particular emphasis placed on the relationship between research designs and strength of causal inference.

**Volet / Course Component:** Séminaire / Seminar



**EVD 9997 Examen d'entrée / Qualifying Examination**

Examen d'entrée / Qualifying Examination

**Volet / Course Component:** Recherche / Research

**EVD 9998 Projet de thèse / PhD Thesis Proposal**

Projet de thèse / PhD Thesis Proposal

**Volet / Course Component:** Recherche / Research