ELECTRONIC BUSINESS (EBC)

EBC 5100 Introductory Seminar (1.5 unit)
Course Component: Lecture

EBC 5125 Data Science Applications (3 units)
Analysis and design of various data cleaning, wrangling, blending, and visualization, statistical inference, classification, clustering, regression, and content analysis methods. Use of machine learning algorithms to extract meaningful information from data to make decisions. Formulating analytics problems for business and developing, evaluating, and maintaining machine learning models. Analyzing, generating, and communicating insights on the models. Hands-on experience with an integrated set of current data analytics, data mining, and machine learning tools.
Course Component: Lecture
Exclusion: CSI 5155, CSI 5387, GNG 5125.

EBC 5175 Mobile Commerce Technologies (3 units)
Course Component: Lecture
Exclusion: CSI 5175.

EBC 5380 Systems and Architectures for Electronic Commerce (3 units)
Course Component: Lecture
Exclusion: CSI 5380.

EBC 5389 Electronic Commerce Technologies (3 units)
Course Component: Lecture
Exclusion: CSI 5389.

EBC 5500 Séminaire d’introduction (1.5 crédit)
Volet : Cours magistral

EBC 5501 Fondements de gestion pour les affaires électroniques (3 crédits)
Volet : Cours magistral
Permission du Département est requise.

EBC 5502 Fondements des technologies de l’information pour les affaires électroniques (3 crédits)
Volet : Cours magistral
Permission du Département est requise.

EBC 5503 Fondements des statistiques pour les affaires électroniques (3 crédits)
Volet : Cours magistral
Permission du Département est requise.

EBC 5990 Étude dirigée / Directed Readings (1.5 crédit / 1.5 unit)
Étude indépendante, sous la direction d'un professeur membre du programme. Le sujet et les exigences doivent être approuvés par le comité du programme. / Independent study under the supervision of a faculty member in the program. The topic and requirements must be approved by the program committee.
Volet / Course Component: Recherche / Research
Préalable : MPC d’au moins 7. / Prerequisite: CGPA of at least 7.

EBC 5991 Étude dirigée / Directed Readings (1.5 crédit / 1.5 unit)
Étude indépendante, sous la direction d'un professeur membre du programme. Le sujet et les exigences doivent être approuvés par le comité du programme. / Independent study under the supervision of a faculty member in the program. The topic and requirements must be approved by the program committee.
Volet / Course Component: Recherche / Research
Préalable : MPC d’au moins 7 / Préalable : MPC d’au moins 7

EBC 6130 Web Services (1.5 unit)
Web services business models and strategies. Enterprise Application Integration and Service Oriented Architectures. Web services technology standards. Consumer and enterprise adoption of web service technologies and platforms such as Mashups and Cloud Computing.
Course Component: Lecture

EBC 6170 Cyber Security Systems and Strategies (1.5 unit)
Course Component: Lecture

EBC 6180 Strategic Knowledge Management (1.5 unit)
Leveraging a firm’s intellectual capital to enhance organizational performance. Business analysis frameworks, strategy roadmaps and enterprise architectures relevant to the planning and execution of knowledge management initiatives in organizations. Using the web to maximize knowledge acquisition and sharing among employees.
Course Component: Lecture

EBC 6210 Electronic Commerce Architecture (1.5 unit)
Course Component: Lecture

EBC 6220 Data Mining for Business Applications (1.5 unit)
Introduction to business data collection, data pre-processing, data warehouses, data marts, and online analytical processing. Data mining tasks including classification, clustering and association rules. Data mining model building, tools and techniques including decision trees, neural networks, and regression analysis. Application of these techniques in business including CRM, target marketing, credit scoring, churn, survival analysis, and fraud detection.
Course Component: Lecture

EBC 6230 Business Process Management and Performance Measurement (3 units)
Hands on introduction to Business Process Management Technologies. Review of the latest concepts for using technology to improve performance of business processes. Analysis of advances in Internet-enabled B2B and enterprise business models with emphasis on service-oriented and event-driven architecture. Introduction to current performance measurement tools and the role of data science in business process management. Example applications such as supply chain management, order processing, and health care process management will be studied.
Course Component: Laboratory, Lecture

EBC 6240 Mobile Commerce (1.5 unit)
Course Component: Lecture

EBC 6250 Document Engineering for E-Business (1.5 unit)
Course Component: Lecture

EBC 6260 Integrated Networks for the Enterprise (1.5 unit)
Course Component: Lecture

EBC 6300 Topics in Electronic Business (3 units)
Recent and advanced topics in the field of Electronic Business and its related areas. Topics vary from year to year.
Course Component: Lecture

EBC 6301 Topics in Electronic Business (1.5 unit)
Recent and advanced topics in the field of Electronic Business and its related areas. Topics vary from year to year.
Course Component: Lecture

EBC 6700 Thèmes choisis en affaires électroniques (3 crédits)
Sujets actuels et avancés en affaires électroniques et disciplines connexes. Les sujets varient d'une année à l'autre.
Volet : Cours magistral

EBC 6701 Thèmes choisis en affaires électroniques (1.5 crédit)
Sujets actuels et avancés en affaires électroniques et disciplines connexes. Les sujets varient d'une année à l'autre.
Volet : Cours magistral

EBC 6900 Stage international / International Work Term (3 crédits / 3 units)
Expérience pratique dans un milieu de travail international. Noté S (satisfaisant) / NS (non satisfaisant) selon les résultats de rapport écrit et l'évaluation de l'employeur. Les cours EBC 6900, CSI 5903, CSI 5904 ne peuvent être combinés pour l'obtention de crédits. / Practical international experience. Graded S (Satisfactory) / NS (Not satisfactory), based on the written report as well as on the evaluations of the employer. Courses EBC 6900, CSI 5903, CSI 5904 cannot be combined for units.
Volet / Course Component: Cours magistral / Lecture

EBC 6900 Stage international / International Work Term (3 crédits / 3 units)

EBC 6950 Lectures dirigées / Directed Readings (1.5 crédit / 1.5 unit)
Volet / Course Component: Cours magistral / Lecture

EBC 6997 Projet de recherche / Research project (6 crédits / 6 units)
Le sujet de recherche, ainsi que le professeur qui va le diriger, doivent être approuvés par la direction du programme avant l'inscription à la troisième session. Le sujet peut être de nature théorique (par exemple, une évaluation de la documentation ou une étude de la littérature scientifique) ou appliquée (par exemple, des études de cas). Un mémoire, d'une cinquantaine de pages, doit être rédigé et approuvé par le professeur qui le dirige ainsi qu'un autre professeur. / The research topic and the professor who will direct it must be approved by the program director prior to registration in the third session. The topic can be theoretical (for instance, based on a documentation assessment or a review of the scientific literature) or applied (based on case studies). A research paper, about 50 pages long, must be written and approved by the project director and another professor.
Volet / Course Component: Recherche / Research

EBC 7100 Research Methods in Electronic Business Technologies (3 units)
Course Component: Lecture

EBC 7101 Research Workshop in Electronic Business Technologies (1.5 unit)
Writing a Research Project proposal including problem formulation and work plan. Essentials of graduate report writing, information management, literature search techniques and reference management. Research ethics including academic integrity and avoiding academic fraud.
Course Component: Lecture

EBC 7102 Interdisciplinary Research Methods in E-Business (1.5 unit)
Writing a Thesis Proposal. Research design. Introduction to positivist and interpretive approaches, behavioural and design science research, qualitative and quantitative research methods, and sampling strategies and techniques.
Course Component: Lecture
Prerequisite: EBC 7101

EBC 7990 Proposition de thèse / Thesis proposal
Volet / Course Component: Recherche / Research
EBC 8101 Interdisciplinary Doctoral Seminar in E-Business I (3 units)
Recent developments in e-Business applications and research. Critical analysis of theories, models, and methods. Critical synthesis of the field literature from different perspectives. Students will write a systematic survey paper of the literature relevant to their research in one of the three fields of the program. The paper must be in a different field from that selected for the paper in EBC 8102. Course reserved for students in the EBC PhD program.

Course Component: Seminar

EBC 8102 Interdisciplinary Doctoral Seminar in E-Business II (3 units)
Recent developments in e-Business applications and research. Critical analysis of theories, models, and methods. Critical synthesis of the field literature from different perspectives. Students will write a systematic survey paper of the literature relevant to their research in one of the three fields of the program. The paper must be in a different field from that selected for the paper in EBC 8101. Course reserved for students in the EBC PhD program.

Course Component: Lecture
Prerequisite: EBC 8101.

EBC 9997 Projet de thèse / Thesis proposal
Projet de thèse / Thesis proposal
Volet / Course Component: Recherche / Research
Préalable : EBC 9998 / Prerequisite: EBC 9998

EBC 9998 Examen général de doctorat / Comprehensive Exam
Volet / Course Component: Recherche / Research