MASTER OF ENGINEERING (M.Eng.) PROGRAM

Note: On-line registration is available to M.Eng. students only. For Program Requirements, see Section 2 and 3 below.

1. ADVISING INFORMATION FOR ON-LINE REGISTRATION

- Go to MyConcordia Portal and make a link to Registration. Follow the instructions.
- Link to School of Graduate Studies On-Line Registration Advising.

M.Eng. Students Registering On-Line are allowed to:

- Register for courses in CIISE ONLY
- Register for 6000 & 7000 Level Courses Only
- Register for a Maximum of 3 Courses (12 credits) per term (NOTE: It is recommended that new international students register for a maximum of 2 courses in their first semester.)
- Full-time students may register for 8 to 12 credits per semester. Part-time students may register for 4 to 8 credits per semester.

Prior Departmental Permission is required for:

Silvie Pasquarelli - EV7.641 or Mireille Wahba - EV7.639

- Registering for courses without the listed pre-requisites.
- 1 Credit Seminar (INSE 6961) – when you are ready to submit your final work.
- Registering for the M. Eng. Projects –ENGR 6991.
- Registering for ENCS 6931, Industrial Training (9 Credit Elective Option).
- Registering for Courses Outside of the Department.
- Register a course for Audit.

You will be BLOCKED from registering if you have:

- An Academic Block – GPA is below 3.00, F grade on record, more than one C grade on record. Permission to Register is required, Go to EV7.641 or EV7.639
- An Accounts Block – outstanding balance of fees due. Go to Birk's Student Service Centre, LB-185
- A CAQ Block – expired Study Permit. Go to the International Students Office, H-653

Contact: Silvie Pasquarelli, Graduate Program Coordinator, Room EV7.641, 514-848-2424 ext. 5367 (graduate@ciise.concordia.ca)

Contact: Mireille Wahba, Graduate Program Coordinator, Room EV7.639, 514-848-2424 ext. 2418 (graduate@ciise.concordia.ca)
2. PROGRAM REQUIREMENTS

Requirements for Completion (M. Eng ISS)

- **Credits.** A fully qualified candidate is required to successfully complete a minimum of 45 credits. Additional credits may be required in some cases.
- **Courses.** Students must take a total of 45 credits of course work at the 6000 or 7000 level. The breakdown of the 45 credits is as follows:
  
  - Twenty credits of **CORE** courses (INSE 6110, 6120, 6130, 6140, 6150) from topic area E69.
  
  - Twenty-five credits of 6000 or 7000 numbered courses from Topic Areas in the Engineering Courses section. Returning students shall only take one of the courses (ENGR 6991 (5-credit), INSE 6961 (1-credit), ENCS 6931 (9-credit)) from Topic Area E63.

**E69 - Topic Area: Information Systems Security - Please consult the Graduate Calendar for a full list of these courses** (Course Description)

Requirements for Completion (M. Eng - QSE)

- **Credits.** A fully qualified candidate is required to successfully complete a minimum of 45 credits. Additional credits may be required in some cases.
- **Courses.** Students must take a total of 45 credits of course work at the 6000 or 7000 level, including a minimum of 36 credits chosen from the Concordia Institute for Information Systems Engineering graduate courses.

The breakdown of the 45 credits is as follows:

- Twelve credits of CORE courses (INSE 6210, INSE 6220, and INSE 6230) from Topic Area E68.

- A minimum of twenty-four credits of program elective courses from Topic Areas E66, E67, E68, E69 and E70.

- A maximum of nine credits of courses from other Topic Areas in the Engineering Courses section. Returning students shall only take one of the courses (ENGR 6991 (5-credit), INSE 6961 (1-credit), ENCS 6931 (9-credit)) from Topic Area E63, or INSE 6240 (1-credit) from Topic Area E68.

**E68 - Topic Area: Quality Systems Engineering - Please consult the Graduate Calendar for a full list of these courses** (Course Description)

***For information on the Industrial Experience go to the program website:***

***Link to Engineering Courses section of the Graduate Calendar***
3. **TOPIC AREAS** Concordia Institute for Information Systems Engineering

**E63 - PROJECT, REPORT AND INDUSTRIAL TRAINING**
INSE 6961 Graduate Seminar in Information and Systems Engineering
ENGR 6991 Project and Report III
ENCS 6931 Industrial Stage and Training

**E66 - SYSTEMS ENGINEERING**
INSE 6311 Sustainable Infrastructure Planning and Management Systems
INSE 6400 Principles of Systems Engineering
INSE 6411 Product Design Theory and Methodology
INSE 6421 Systems Integration and Testing
INSE 6431 Ad Hoc Wireless Networks: Architectures and Protocols

**E67 - 3D GRAPHICS AND INTELLIGENT SYSTEMS**
INSE 6510 Video Game Technology and Development
INSE 6530 3D Graphics and Computer Animation for Game Design

**E68 - QUALITY SYSTEMS ENGINEERING**
INSE 6210 Total Quality Methodologies in Engineering
INSE 6220 Advanced Statistical Approaches to Quality
INSE 6230 Total Quality Project Management
INSE 6240 Executive Communication
INSE 6250 Quality Methodologies for Software
INSE 6260 Software Quality Assurance
INSE 6270 Quality-Based Systems Engineering
INSE 6280 Quality Assurance for Systems Engineering
INSE 6290 Quality in Supply Chain Design
INSE 6300 Quality Assurance in Supply Chain Management
INSE 6310 Systems Engineering Maintenance Management

**E69 - INFORMATION SYSTEMS SECURITY**
INSE 6110 Foundation of Cryptography
INSE 6120 Crypto-Protocol and Network Security
INSE 6130 Operating Systems Security
INSE 6140 Malware Defenses and Application Security
INSE 6150 Security Evaluation Methodologies
INSE 6160 Database Security and Privacy
INSE 6170 Network Security Architecture and Management
INSE 6180 Security and Privacy Implications of Data Mining
INSE 6190 Wireless Network Security
INSE 6610 Cybercrime Investigations
INSE 6620 Cloud Computing Security and Privacy
INSE 6630 Recent Developments in Information Systems Security
INSE 6640 Smart Grids and Control System Security
INSE 6650 Trusted Computing

**E70 - INFORMATION SYSTEMS ENGINEERING**
INSE 6100 Advanced Java Platforms
INSE 6320 Risk Analysis for Information and Systems Engineering
INSE 6441 Applied Game Theory and Mechanism Design
INSE 7100 Design and Analysis of Security Protocols
INSE 7110 Value Added Service Engineering in Next Generation Networks
INSE 7120 Advanced Network Management