9:30  Introduction (Richard Wildes and Franck van Breugel)
10:15 Administrative matters (Stefanie Lamonaca Caputo)
10:30 Library resources (John Dupuis)
11:30 Computer account set up (Ulya Yigit)
12:00 Teaching commons (Uzma Nadeem)
12:30 CUPE
13:00 Lunch
14:00 YUGSA (Evan Johnston)
14:15 EECSGSA (Markus Solbach)
14:30 Course presentations
16:30 EECSGSA
Graduate Program in Electrical Engineering & Computer Science

Franck van Breugel

Department of Electrical Engineering and Computer Science
York University, Toronto

September 6, 2016
Welcome to …

- the Department of Electrical Engineering and Computer Science (EECS),
- the Lassonde School of Engineering (LSE),
- York University,
- Toronto, and
- Canada.
the Graduate Program in Electrical Engineering & Computer Science.

The graduate program consists of

- 53 faculty members,
- 58 PhD candidates, and
- 65 MSc/MASc candidates.
Franck van Breugel
Room 1012U of the Lassonde Building
gpd@eeecs.yorku.ca
Requirements for
- MSc (thesis option)
- MSc (project option)
- MASc
- PhD

Supervisory committee
Courses
Financial support
Academic honesty
Health and safety training
MSc Requirements (thesis option)

You need to complete five courses.

At least four courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated graduate course (course number starts with a 5).

At least one course from the theory of computing and scientific computing groups (the second digit of the course number is a 1 or 2).

At least one course from the AI and interactive systems group (the second digit of the course number is a 3).

At least one course from the software systems and hardware systems groups (the second digit of the course number is a 4 or 5).

You need to defend a thesis.
MSc Requirements (thesis option)

You need to complete five courses.

At least four courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated graduate course (course number starts with a 5).
You need to complete five courses.

At least four courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated graduate course (course number starts with a 5).

- At least one course from the theory of computing and scientific computing groups (the second digit of the course number is a 1 or 2).
- At least one course from the AI and interactive systems group (the second digit of the course number is a 3).
- At least one course from the software systems and hardware systems groups (the second digit of the course number is a 4 or 5).
MSc Requirements (thesis option)

You need to complete five courses.

At least four courses must be **non-integrated graduate courses** (course number starts with a 6) and at most one may be an integrated graduate course (course number starts with a 5).

- At least one course from the **theory of computing and scientific computing groups** (the second digit of the course number is a 1 or 2).
- At least one course from the **AI and interactive systems group** (the second digit of the course number is a 3).
- At least one course from the **software systems and hardware systems groups** (the second digit of the course number is a 4 or 5).

You need to defend a thesis.
Question

John completes the courses

- EECS 5111: Automata, Computability and Complexity
- EECS 6117: Distributed Computing
- EECS 6324: From Control to Actuators
- EECS 6412: Data Mining

Has he satisfied his course requirements? If not, explain why not.

Answer

No, because John only completed four courses.
Question

John completes the courses
- EECS 5111: Automata, Computability and Complexity
- EECS 6117: Distributed Computing
- EECS 6324: From Control to Actuators
- EECS 6412: Data Mining

Has he satisfied his course requirements? If not, explain why not.

Answer

No, because John only completed four courses.
Question

Julia completes the courses

- EECS 5111: Automata, Computability and Complexity
- EECS 6117: Distributed Computing
- EECS 6324: From Control to Actuators
- EECS 5324: Introduction to Robotics
- EECS 6412: Data Mining

Has she satisfied her course requirements? If not, explain why not.
Question

Julia completes the courses
- EECS 5111: Automata, Computability and Complexity
- EECS 6117: Distributed Computing
- EECS 6324: From Control to Actuators
- EECS 5324: Introduction to Robotics
- EECS 6412: Data Mining

Has she satisfied her course requirements? If not, explain why not.

Answer

No, because Julia may take at most one integrated graduate course (course number starts with a 5).
Question
Franck completes the courses
- EECS 6111: Advanced Algorithm Design and Analysis
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6324: From Control to Actuators
- EECS 6340: Embodied Intelligence
Has he satisfied his course requirements? If not, explain why not.
Question

Franck completes the courses

- EECS 6111: Advanced Algorithm Design and Analysis
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6324: From Control to Actuators
- EECS 6340: Embodied Intelligence

Has he satisfied his course requirements? If not, explain why not.

Answer

No, because Franck did not take one course from the software systems and hardware systems groups (the second digit of the course number is a 4 or 5).
Question

Stefanie completes the courses

- EECS 6111: Advanced Algorithm Design and Analysis
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6340: Embodied Intelligence
- EECS 6412: Data Mining

Has she satisfied her course requirements? If not, explain why not.
Question

Stefanie completes the courses

- EECS 6111: Advanced Algorithm Design and Analysis
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6340: Embodied Intelligence
- EECS 6412: Data Mining

Has she satisfied her course requirements? If not, explain why not.

Answer

Yes.
MSc Requirements (project option)

You need to complete **seven** courses.
You need to complete seven courses.

At least five courses must be non-integrated graduate courses (course number starts with a 6) and at most two may be integrated courses (course number starts with a 5).
MSc Requirements (project option)

You need to complete seven courses.

At least five courses must be non-integrated graduate courses (course number starts with a 6) and at most two may be integrated courses (course number starts with a 5).

- At least one course from the theory of computing and scientific computing groups (the second digit of the course number is a 1 or 2).
- At least one course from the AI and interactive systems group (the second digit of the course number is a 3).
- At least one course from the software systems and hardware systems groups (the second digit of the course number is a 4 or 5).

For our PhD program, we require a MSc with thesis.
You need to complete seven courses.

At least five courses must be non-integrated graduate courses (course number starts with a 6) and at most two may be integrated courses (course number starts with a 5).

- At least one course from the theory of computing and scientific computing groups (the second digit of the course number is a 1 or 2).
- At least one course from the AI and interactive systems group (the second digit of the course number is a 3).
- At least one course from the software systems and hardware systems groups (the second digit of the course number is a 4 or 5).

You need to complete a project.
You need to complete seven courses.

At least five courses must be non-integrated graduate courses (course number starts with a 6) and at most two may be integrated courses (course number starts with a 5).

- At least one course from the theory of computing and scientific computing groups (the second digit of the course number is a 1 or 2).
- At least one course from the AI and interactive systems group (the second digit of the course number is a 3).
- At least one course from the software systems and hardware systems groups (the second digit of the course number is a 4 or 5).

You need to complete a project.

For our PhD program, we require a MSc with thesis.
You need to complete the course EECS 6400.

You need to complete three other courses.

At least two of those three courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

At least one course from the computer systems engineering group and at least one course from the interactive systems engineering group, or at least one course from the computer systems engineering group and at least one course from the electrical engineering group, or at least one course from the interactive systems engineering group and at least one course from the electrical engineering group.

You need to defend a thesis.
You need to complete the course EECS 6400.
You need to complete three other courses.

At least two of those three courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

At least one course from the computer systems engineering group and at least one course from the interactive systems engineering group, or
at least one course from the computer systems engineering group and at least one course from the electrical engineering group, or
at least one course from the interactive systems engineering group and at least one course from the electrical engineering group.

You need to defend a thesis.
You need to complete the course EECS 6400.

You need to complete three other courses.

At least two of those three courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).
MASc Requirements

You need to complete the course EECS 6400.
You need to complete three other courses.
At least two of those three courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

- At least one course from the computer systems engineering group and at least one course from the interactive systems engineering group, or
- At least one course from the computer systems engineering group and at least one course from the electrical engineering group, or
- At least one course from the interactive systems engineering group and at least one course from the electrical engineering group.

You need to defend a thesis.
You need to complete the course EECS 6400.
You need to complete three other courses.
At least two of those three courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

- At least one course from the computer systems engineering group and at least one course from the interactive systems engineering group, or
- At least one course from the computer systems engineering group and at least one course from the electrical engineering group, or
- At least one course from the interactive systems engineering group and at least one course from the electrical engineering group.

You need to defend a thesis.
This project course spans two terms.

The topic of the project must be distinct from any assignments in any of the other courses.

The topic of the project must be distinct from the thesis.
Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters
Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

EECS 6400
Student completes the courses
- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

EECS 6400 ✔
Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

At least two those three courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).
Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

At least two of those three courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5). ✓
Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

At least one course from the computer systems engineering group.
Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

At least one course from the computer systems engineering group. ✔️
Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

At least one course from the interactive systems engineering group.
MASc Requirements

Student completes the courses

- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

At least one course from the interactive systems engineering group.
Student completes the courses
  - EECS 6400: Computer Engineering Research Project
  - EECS 6117: Distributed Computing
  - EECS 5324: Introduction to Robotics
  - EECS 6701: High Frequency Power Electronic Converters

At least one course from the electrical engineering group.
Student completes the courses
- EECS 6400: Computer Engineering Research Project
- EECS 6117: Distributed Computing
- EECS 5324: Introduction to Robotics
- EECS 6701: High Frequency Power Electronic Converters

At least one course from the electrical engineering group. ✓
<table>
<thead>
<tr>
<th>course</th>
<th>title</th>
<th>instructor</th>
<th>day</th>
<th>start time</th>
<th>duration</th>
<th>location</th>
<th>group</th>
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<tbody>
<tr>
<td>EECS 5111</td>
<td>Automata, Computability and Complexity</td>
<td>Patrick Dymond</td>
<td>MW</td>
<td>11:30</td>
<td>90</td>
<td>PSE 321</td>
<td>1</td>
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<tr>
<td>EECS 5326</td>
<td>Artificial Intelligence</td>
<td>Zbigniew Stachniak</td>
<td>TR</td>
<td>11:30</td>
<td>90</td>
<td>LSB 101</td>
<td>2</td>
</tr>
<tr>
<td>EECS 5421</td>
<td>Operating Systems Design</td>
<td>Jia Xu</td>
<td>W</td>
<td>19:00</td>
<td>180</td>
<td>RS 127</td>
<td>3, 4</td>
</tr>
<tr>
<td>EECS 5501</td>
<td>Computer Architecture</td>
<td>Mokthar Aboelaze</td>
<td>TR</td>
<td>10:00</td>
<td>90</td>
<td>CB 122</td>
<td>3, 4</td>
</tr>
<tr>
<td>EECS 6117</td>
<td>Distributed Computing</td>
<td>Eric Ruppert</td>
<td>TR</td>
<td>13:00</td>
<td>90</td>
<td>RS 536</td>
<td>1, 4</td>
</tr>
<tr>
<td>EECS 6324</td>
<td>From Control to Actuators</td>
<td>Michael Jenkin</td>
<td>TR</td>
<td>14:30</td>
<td>90</td>
<td>BC 225</td>
<td>2, 4</td>
</tr>
<tr>
<td>EECS 6326</td>
<td>Principles of Human Perception and Performance</td>
<td>Robert Allison</td>
<td>WF</td>
<td>14:30</td>
<td>90</td>
<td>BSB 207</td>
<td>2, 5</td>
</tr>
<tr>
<td>EECS 6327</td>
<td>Probabilistic Models &amp; Machine Learning</td>
<td>Hui Jiang</td>
<td>WF</td>
<td>13:00</td>
<td>90</td>
<td>RS 536</td>
<td>2, 5</td>
</tr>
</tbody>
</table>
MSc/MASc Requirements

- Complete program in five terms (20 months).
- Complete course requirements in first two terms (four terms if doing the project option).
- Decide on the thesis or project option by March 15.
- Complete progress report #1 by April 15.
- Complete progress report #2 by August 15.
- Maintain an average of at least B+ in the courses and satisfy the Faculty of Graduate Studies (FGS) grades regulations.\(^1\)
- Get the thesis proposal approved at least three months before the thesis oral examination.
- Complete the thesis four weeks before the thesis oral examination.

\(^1\)See [http://gradstudies.yorku.ca/current-students/regulations/courses-grading/](http://gradstudies.yorku.ca/current-students/regulations/courses-grading/).
You need to complete three courses.
You need to complete three courses.

At least two of the courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).
You need to complete three courses.

At least two of the courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

You need to pass a qualifying examination.
You need to complete three courses.

At least two of the courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

You need to pass a qualifying examination.

You need to prepare a dissertation proposal.
You need to complete three courses.

At least two of the courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

You need to pass a qualifying examination.

You need to prepare a dissertation proposal.

You need to complete an industrial internship (3 to 6 months) or a teaching practicum.
You need to complete three courses.

At least two of the courses must be non-integrated graduate courses (course number starts with a 6) and at most one may be an integrated course (course number starts with a 5).

You need to pass a qualifying examination.

You need to prepare a dissertation proposal.

You need to complete an industrial internship (3 to 6 months) or a teaching practicum.

You need to defend a dissertation.
PhD Requirements

- Maintain an average of at least B+ in the courses and satisfy the FGS grades regulations.\(^2\)
- Get the dissertation proposal approved at least six months before the dissertation oral examination.
- Complete the dissertation four weeks before the dissertation oral examination.

\(^2\)See [http://gradstudies.yorku.ca/current-students/regulations/courses-grading/](http://gradstudies.yorku.ca/current-students/regulations/courses-grading/).
Question

In his five courses, Franck received one A, three Bs and one C. Is his average sufficient?
Question
In his five courses, Franck received one A, three Bs and one C. Is his average sufficient?

Answer
No.
In her five courses, Stefanie received two A+s, two As and one B. Is her average sufficient?
Question
In her five courses, Stefanie received two A+s, two As and one B. Is her average sufficient?

Answer
Yes.
If your letter of admission contains additional requirements, then these need to be satisfied on top of all the requirements mentioned earlier.
According to the FGS regulations

“A dissertation supervisory committee shall meet annually with the student, normally in the spring, to evaluate the Report on Progress submitted by the student and submit a completed copy of the Report on Progress to the graduate program director after the meeting”
According to the FGS regulations

“Reports to the graduate program director of unsatisfactory progress may require a student to withdraw.”
- **Topic**
  - that does not overlap with any other course taken, and
  - for which no course is currently being offered.

- Faculty member, appointed to the graduate program, who wants to supervise the course.

- Directed reading form.

- Permission of graduate program director.
Consult with supervisor on course choices.

http://www.cse.yorku.ca/grad/schedule.html

Enroll in courses by September 21
(October 5 with permission of the instructor).

Feel free to audit first lectures to decide on courses.
Financial Support

- **Master’s domestic**: $25,000 per year for 20 months (up to $33,000 per year for students with external financial support).

- **PhD domestic**: $27,000 per year for 4 years (up to $35,000 per year for students with external financial support).\(^3\)

- **Must meet progress guidelines to continue receiving financial support.**

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\(^3\) For year 5 and 6, the Canadian Union of Public Employees (CUPE) minimum guarantee.
Teaching Assistantships

- The numbers of teaching assistant (TA) hours and the courses will be assigned based on availability and TAs’ background.
  - We do not take requests from TAs.
  - We only take requests from course instructors.
- If you decline (part of) your TAship, your funding will be reduced accordingly (approximately $55 per hour).
- If you plan to go on leave, let us know at least one to two months before the leave if possible.
- TA orientation: Lassonde Building, room 3033, Monday September 12, 14:00-15:00
Familiarize yourself with http://gradstudies.yorku.ca/current-students/regulations/academic-honesty/ and the links provided on the URL.

Complete York’s academic integrity tutorial at http://www.yorku.ca/tutorial/academic_integrity/.

Submit the completion certificate to Stefanie by September 16, 2016.

Behave academically honest (not doing so may have serious consequences).
Students in Computer Science

Complete the first module (Health & Safety Orientation for Faculty & Staff) at https://moodle.yorku.ca/moodle/course/view.php?id=36422 by September 16.

For better tracking of your training record, you should use an Employee ID based Passport York account (different from a Student ID based Passport York account). If you do not have an Employee based Passport York account, go to: http://staff.computing.yorku.ca/faculty-staff/passwords-passport-york-access/
Students in Computer Science

Complete WHMIS I (online).

Register at https://dohs.apps01.yorku.ca/machform/view.php?id=48801 for WHMIS I (online). Access information is sent to your email.

Print and submit completion confirmation to Stefanie by September 16.
Health and Safety Training

Students in Electrical and Computer Engineering

Complete the first module (Health & Safety Orientation for Faculty & Staff) at https://moodle.yorku.ca/moodle/course/view.php?id=36422 by September 16.

For better tracking of your training record, you should use an Employee ID based Passport York account (different from a Student ID based Passport York account). If you do not have an Employee based Passport York account, go to: http://staff.computing.yorku.ca/faculty-staff/passwords-password-york-access/
Health and Safety Training

Students in Electrical and Computer Engineering

Complete WHMIS II (in class).

Register at https://dohs.apps01.yorku.ca/machform/view.php?id=48801 for WHMIS II.

It will be offered Tuesday September 6, 1-4pm in CB 129 and Thursday September 8, 1-4pm in CB 115.
Students in Electrical and Computer Engineering

Depending on the type of TAing and research, the following may also need to be completed:

- **Biosafety (in class)**

  This training is mandatory for anyone who will be working with biological materials and/or supervising workers with biological materials (e.g., viruses, bacteria, cell culture, etc.) in a certified containment level laboratory.

  **Register at** [https://dohs.apps01.yorku.ca/machform/view.php?id=48801](https://dohs.apps01.yorku.ca/machform/view.php?id=48801) **for Biosafety: Full Training.**

  It will be offered Wednesday September 7, 9am-noon in PSE 321 and Friday September 9, 9am-noon in CB 115.
Health and Safety Training

Students in Electrical and Computer Engineering

Depending on the type of TAing and research, the following may also need to be completed:

- Chemical Handling & Volatile Rooms (in class)

  This training is mandatory for lab employees in Chemistry and Biology.

  Register at [https://dohs.apps01.yorku.ca/machform/view.php?id=48801](https://dohs.apps01.yorku.ca/machform/view.php?id=48801) for Chemical Handling & Volatile Rooms.

  It will be offered Thursday September 8, 9-10am in LSB 106 and Friday September 9, 1-2pm in LSB 107.
If you have any questions, please contact Ed Secnik at edward.secnik@lassonde.yorku.ca.
For More Information

- http://eecs.lassonde.yorku.ca/
- http://gradstudies.yorku.ca/