

Program

- 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@eecs.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.

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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).

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- 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).

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- 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.

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.

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).

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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).

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).

You need to complete a project.

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).

You need to complete a project.

For our PhD program, we require a MSc with thesis.

MASc Requirements

You need to complete the course EECS 6400.

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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**.

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.

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 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.

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. ✓

Course Schedule

course	title	instructor	day	start time	duration	location	group
EECS 5111	Automata, Computability and Complexity	Patrick Dymond	MW	11:30	90	PSE 321	1
EECS 5326	Artificial Intelligence	Zbigniew Stachniak	TR	11:30	90	LSB 101	2
EECS 5421	Operating Systems Design	Jia Xu	W	19:00	180	R S127	3, 4
EECS 5501	Computer Architecture	Mokhtar Aboelaze	TR	10:00	90	CB 122	3, 4
EECS 6117	Distributed Computing	Eric Ruppert	TR	13:00	90	R S536	1, 4
EECS 6324	From Control to Actuators	Michael Jenkin	TR	14:30	90	BC 225	2, 4
EECS 6326	Principles of Human Perception and Performance	Robert Allison	WF	14:30	90	BSB 207	2, 5
EECS 6327	Probabilistic Models & Machine Learning	Hui Jiang	WF	13:00	90	R S536	2, 5

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/>.

You need to complete three courses.

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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).

PhD Requirements

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.

PhD Requirements

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.

PhD Requirements

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.

- 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.

²See <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.

Question

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.

Requirements in Admission Letter

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.

- 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.

³For 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

Academic Honesty

- 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.

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-passport-york-access/>

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> 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.

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> 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/>