Academic Program Reviews
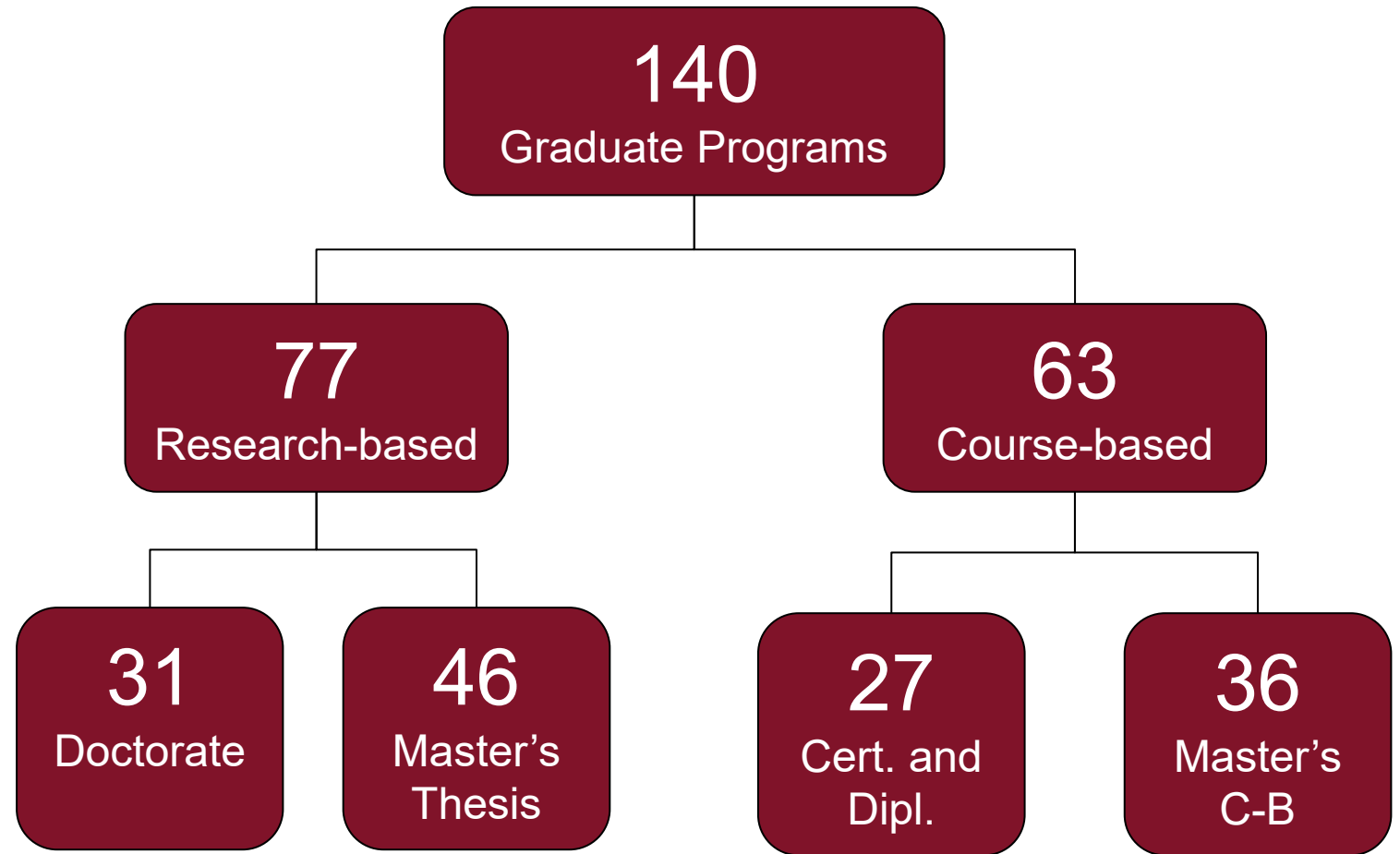
Faye Diamantoudi
Dean of Graduate Studies
Concordia University

Graduate Programs at Concordia

140
Graduate Programs

77
Research-based

63
Course-based

31
Doctorate

46
Master's Thesis

27
Cert. and Dipl.
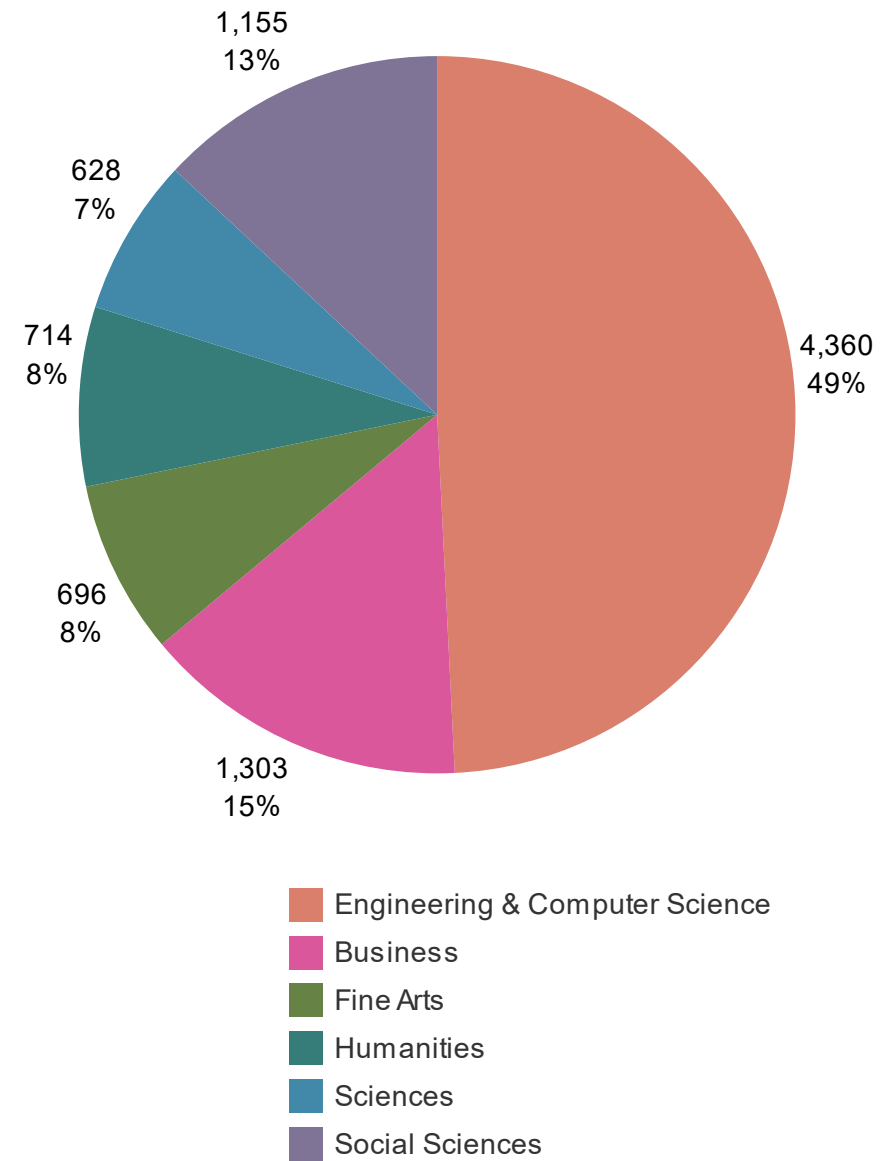
36
Master's C-B

Graduate Students at Concordia

8,856 graduate students

1,983 doctoral students
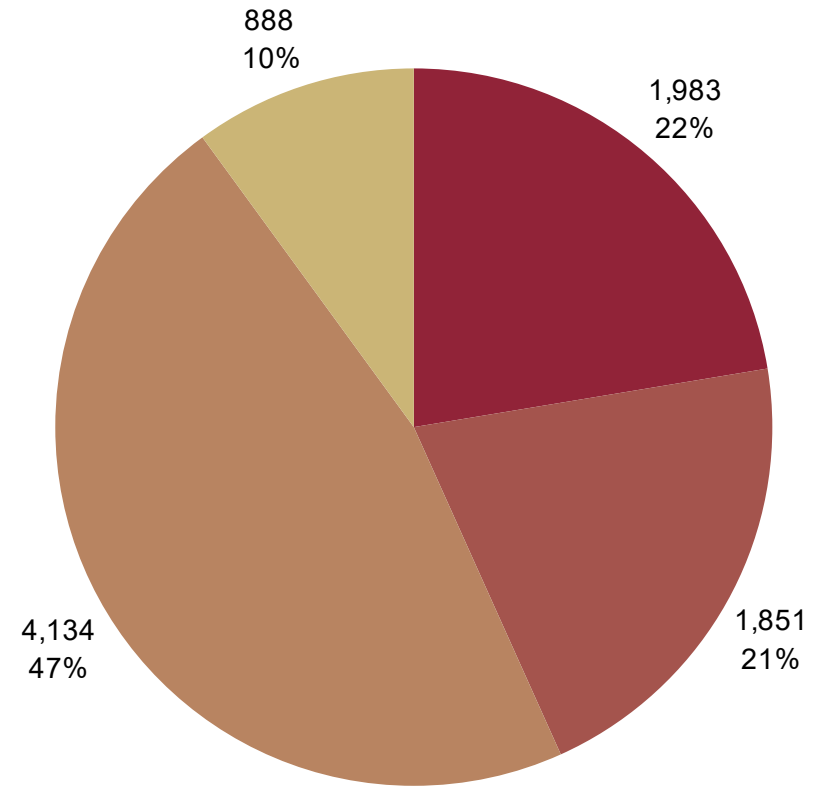
- PhD
- Thesis Master
- Course-Based Master
- Certificate & Diploma

Graduate Students at Concordia - Sector

Pie chart: Graduate students by sector

- 4,360 — 49% — Engineering & Computer Science
- 1,303 — 15% — Business
- 696 — 8% — Fine Arts
- 714 — 8% — Humanities
- 628 — 7% — Sciences
- 1,155 — 13% — Social Sciences

Graduate Students at Concordia - Status

4,074
46%

4,782
54%

Canadian & Permanent resident

International
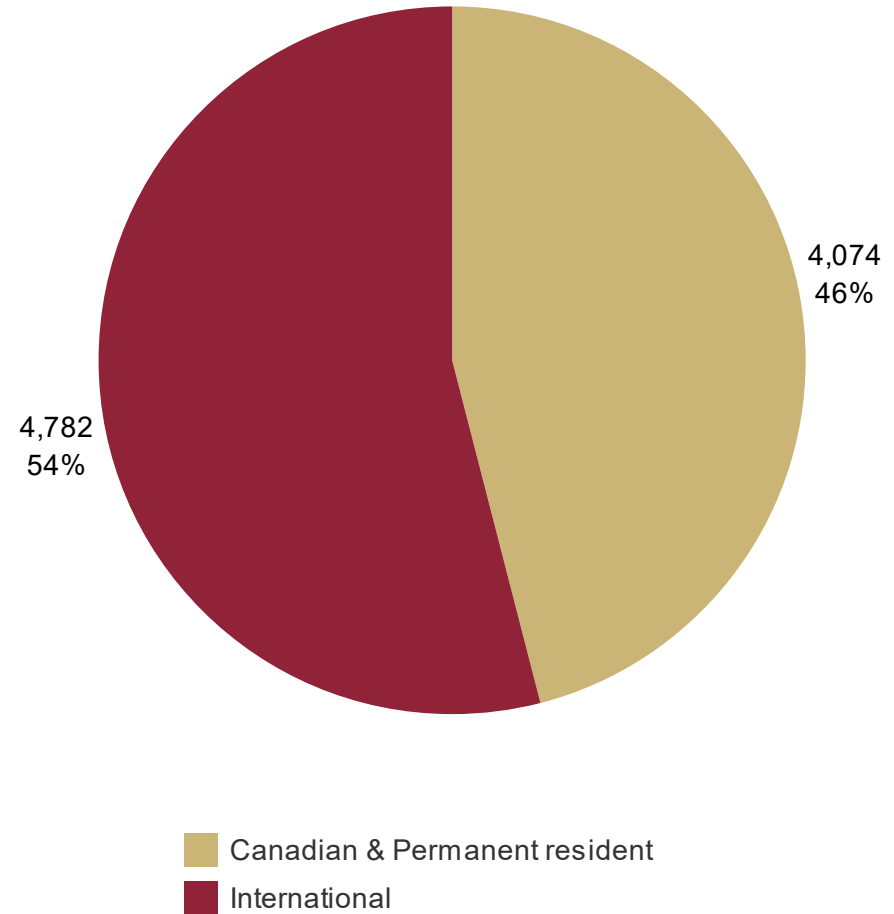
Graduate Students at Concordia - Gender

3,944
45%

4,912
55%

Male
Female
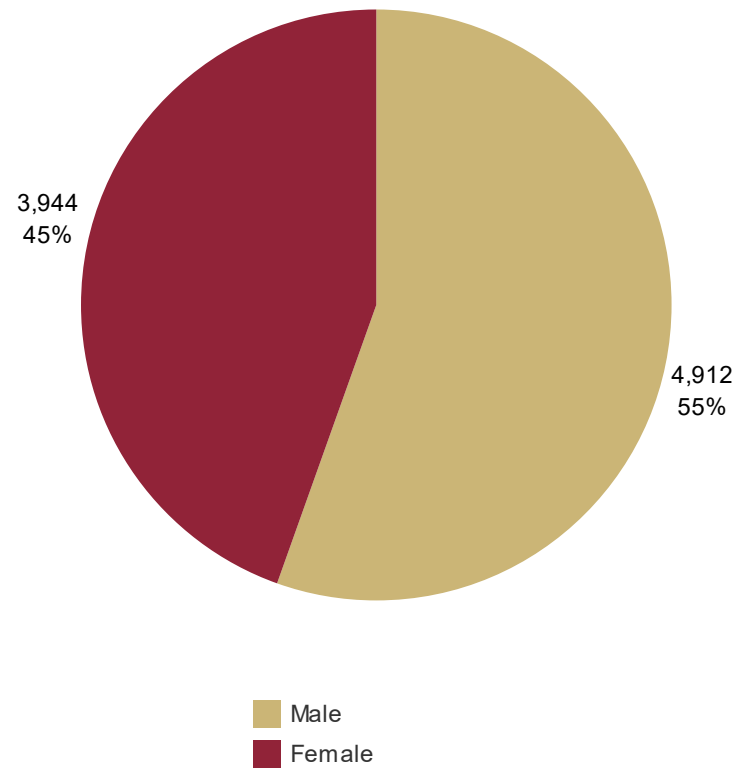
Report Cards

➢ Bi-annual exercise

➢ Over 6 metrics:
   1. Acceptance rate
   2. Capture rate
   3. Time to completion
   4. Attrition rate
   5. External awards
   6. Research intensity

➢ Results influence the graduate funding formula
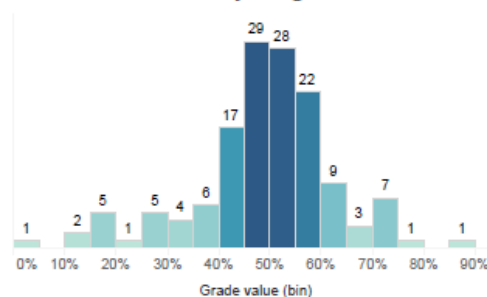
Department Report Card

UNIVERSITÉ
Concordia
UNIVERSITY
SCHOOL OF GRADUATE STUDIES

Notorious Squad

Grade by Program

| | Above avg |
| | Below avg |

Program		
Doctor of Philosophy	●	47%
Master - Course Based	●	43%
Master - Thesis	●	46%
Master - Co-op Course Based	●	34%
Master - Co-op Thesis	●	18%

Grade Distribution by Program

| Bin values | 1 | 2 | 5 | 1 | 5 | 4 | 6 | 17 | 29 | 28 | 22 | 9 | 3 | 7 | 1 | 1 |

0% 10% 20% 30% 40% 50% 60% 70% 80% 90%
Grade value (bin)

Aggregate Results (across all programs)

	Average	Median	Min.	Max.
Grade	49%	50%	3%	85%
Acceptance Rate	49%	59%	0%	100%
Capture Rate	42%	39%	0%	100%
Time To Completion	75%	83%	0%	100%
Withdrawals	89%	92%	0%	100%
External Bursaries and Awa..	14%	4%	0%	100%
Research Intensity	31%	27%	0%	100%

Criteria values

Program	Criteria		
Doctor of Philosophy	Acceptance Rate	●	73%
	Capture Rate	●	22%
	Time To Completion	●	82%
	Withdrawals	●	76%
	External Bursaries and Awards	●	10%
	Research Intensity	●	20%
Master - Course Based	Acceptance Rate	●	59%
	Capture Rate	●	0%
	Time To Completion	●	95%
	Withdrawals	●	90%
	External Bursaries and Awards	●	0%
	Research Intensity	●	20%
Master - Thesis	Acceptance Rate	●	55%
	Capture Rate	●	18%
	Time To Completion	●	95%
	Withdrawals	●	93%
	External Bursaries and Awards	●	0%
	Research Intensity	●	20%
Master - Co-op Course Based	Acceptance Rate	●	0%
	Capture Rate	●	0%
	Time To Completion	●	91%
	Withdrawals	●	100%
	External Bursaries and Awards	●	0%
	Research Intensity	●	20%
Master - Co-op Thesis	Acceptance Rate	●	0%
	Capture Rate	●	0%
	Time To Completion	●	0%
	Withdrawals	●	100%
	External Bursaries and Awards	●	0%
	Research Intensity	●	20%

Acceptance Rate

- ➤ *Demonstrates demand for a program of study.*

- ➤ *Highlights positive recruitment efforts made by the unit.*

- ❖ *Due to lack of (sector specific) national data the measure is favorable towards popular disciplines.*

$$\frac{\textit{Number of Students Accepted}}{\textit{Number of Students Applied}}$$

CONCORDIA

Capture Rate

➢ *Ability of a program to be a top choice among those interested.*

➢ *Ability of a program to engage its applicants with appropriate recruitment efforts.*

❖ *Lack of discipline specific information and inability to normalize.*

$$\frac{Number\ of\ Students\ Registered}{Number\ of\ Students\ Accepted}$$

CONCORDIA

Time to Completion (TTC) Rate

➤ *TTC varies significantly across sectors.*

➤ *We normalized by national sector averages (as per CAGS) and looked at % above and below*

➤ *E.g. (18 terms- 15 terms)/15 terms=20% (above sector average)*

$$\frac{TTC - Sector\ Average}{Sector\ average}$$

CONCORDIA

Attrition Rate

➢ *Disincentive to lowering admission standards.*

➢ *Incentive to engage and guide students properly within the program.*

$$\frac{\textit{Number of Students Withdrawn}}{\textit{Number of Students Registered}}$$

CONCORDIA

External Awards per non-visa students

➢ *Indicator of quality of students by external unbiased standards.*

➢ *Vast majority of Canadian external awards are open only to Canadian Citizens.*

➢ *To avoid "penalizing" programs with a large international population we concentrated our per capita ratio to non-visa students.*

❖ *The use of any internal assessment of student quality would create undesirable incentive (eg GPA/grade inflation).*

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Research Intensity

- *Most diverse criterion.*
- *Concentrated only on mainstream operating funding (eg. excluded infrastructure grants).*

- *Grand $$$ per capita*

- *Normalized by tri-council ratios:*

$$\text{NSERC total envelop} \Big/ \text{SSHRC total envelop} = x$$

$$\text{CIHR total envelop} \Big/ \text{SSHRC total envelop} = y$$

NSERC $$$ awarded / x

CIHR $$$ awarded / y

CONCORDIA

Conversion to Grades

The best raw performance (score) becomes a 100%

Grade= 100 x score / best score

In the case of negative indicators (i.e. TTC, attrition) the best score is the lowest number.

Overall grade of a program is the average over all the criteria grades.

Example

Assume Psychology is the "richest" department with $80,000 per capita. Then Psychology gets a 100.

If Economics gathered $55,000 per capita, the grade is
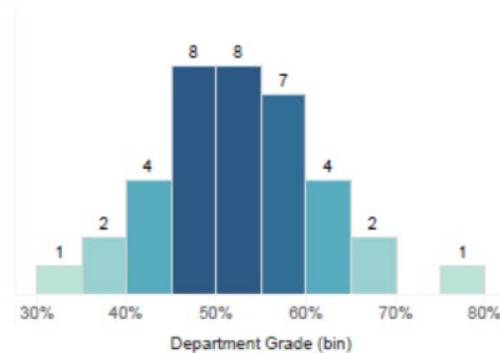
100 x 55,000/80,000=68.75%

Dean's Summary

Department Results

Faculty A – Sector X

Sector Grade (weighted average) **51%**

Grade by Dept. (weighted average*)

Department	
Intelligent Sonics	61%
Perfect Unit	55%
Unbelievable Jargon	34%
Loud Royals	48%
Legendary Set	45%
Amped Ultras	50%
Quiet Band	39%

Grade by Program

Above avg
Below avg

Department	Program	
Intelligent Sonics	Doctor of Philosophy	73%
	Doctor of Philosophy -Joint Program	43%
	Master -Research Paper Option	60%
	Master -Thesis	56%
	Master -Thesis Option B	64%
Perfect Unit	Doctor of Philosophy	70%
	Master - Thesis Opt A	56%
	Master - Thesis Opt B	45%
	Master - Course Based	52%
Unbelievable Jargon	INACTIVE	10%
	Master - Course Based	11%
	Master - Thesis	34%
Loud Royals	Doctor of Philosophy	54%
	Master of Arts	46%
Legendary Set	Master - Essay Option	45%
	Master - Thesis Option A	47%
	Master - Thesis Option B	49%
	Master - Course Based	19%
Amped Ultras	Master - Research Paper	50%
	Master - Thesis	37%
Quiet Band	Master - Research Paper	35%
	Master -Thesis	40%

Grade Distribution by Department

Department Grade (bin)

Provost Summary

UNIVERSITÉ **Concordia** UNIVERSITY

SCHOOL OF GRADUATE STUDIES

Criteria by Sector (weighted average*)

🟦 Row max   🟥 Row min

Criteria	Faculty A Sector X	Faculty A Sector Y	Faculty A Sector Z	Faculty B	Faculty C	Faculty D	Interdisciplinary Prpgrams
Grade	51%	61%	52%	44%	49%	60%	51%
Acceptance Rate	48%	65%	57%	61%	63%	57%	14%
Capture Rate	46%	65%	29%	13%	30%	52%	69%
Time To Completion	79%	82%	84%	81%	85%	82%	81%
Withdrawals	88%	90%	90%	88%	91%	94%	93%
External Bursaries an..	18%	32%	16%	3%	7%	17%	45%
Research Intensity	30%	35%	41%	21%	24%	60%	9%

Aggregate Results (across all programs)

	Average	Median	Min.	Max.
Grade	49%	50%	3%	85%
Acceptance Rate	49%	59%	0%	100%
Capture Rate	42%	39%	0%	100%
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Research Intensity	31%	27%	0%	100%

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Program Fact Sheets

PROGRAM ANALYTICS → PROGRAM FACTS → CURRICULUM REFORM
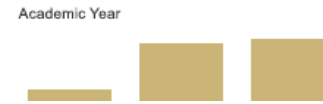
Department Fact Sheet

Mechanical Engineering (MEng)
Program Fact Sheet

Enrolment

Academic Year

	2015	2016	2017	2018	2019
International	361	471	537	682	714
Canadian and PR	115	105	84	64	46

Recruitment

Admission Year

	2015	2016	2017	2018	2019
Applications	518	741	814	909	943
Accept. rate	70%	63%	55%	59%	52%
Capture rate	42%	42%	38%	40%	33%

Competitive landscape

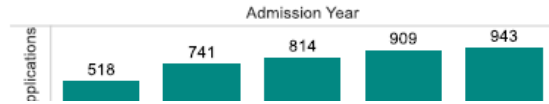| University	Program name	Credits	Type	Courses (credits)	Duration	Deadlines F	W	S	Experiential learning
ETS	Génie Mécanique (MIng)	45	C-B P	10-15 (39) 9-10 (30)	2	1-Aug	1-Dec	1-Apr	Stage
McGill University	Mechanical Engineering (MEng)	45	C-B TH	8(32) 5(17)	1.5	15-Sep	15-Feb		
Queen's University	Mechanical Engineering (MEng)		C-B	8	1	No deadline	No deadline	No deadline	
Polytechnique	Génie Mécanique (MIng)	45	C-B	5(15)	4–6 trimesters	1-Mar	1-Jun	15-Nov	Stage
UBC	Mechanical Engineering (MEng)	30	C-B	8(24)	1	1-Mar			Co-op
University of Calgary	Mechanical Engineering (MEng)		C-B TH	10(30) 5(15)	1 2	15-Jan	1-May		
University of Ottawa	Mechanical Engineering (MEng)	30 units	C-B	10(30) 8(24)	2	31-Jan	30-Apr		Co-op
Waterloo University	Mechanical Engineering (MEng)		C-B	8(4)	3-4 terms				
Concordia University	Mechanical Engineering (MEng)	45	C-B	~11(45)	2	1-Feb	1-Jul		Internship

Opportunities

●	Program length	Concordia's MEng in Mechanical Engineering is a two-year course-based program. Other universities across the country offer a one-year course-based program.
●	Experiential learning	Concordia's MEng in Mechanical Engineering is among the programs that offers students opportunities for experiential learning.
●	Curriculum	Concordia offers a 45-credit program with one of the highest numbers of courses and the total number of credits associated to those courses.

Department Fact Sheet

Mechanical Engineering (MEng)
Program Fact Sheet

Insight on program enrolment and comparable programs across Canada

Enrolment

Academic Year

Recruitment

Admission Year

518 741 814 909 943

Competitive landscape

University	Program name	Credits	Type	Courses (credits)	Duration	Deadlines F	Deadlines W	Deadlines S	Experiential learning
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