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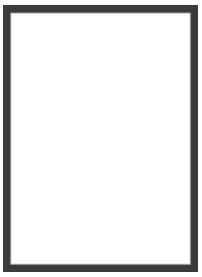
2017 Canadian Engineers for Tomorrow

Trends in Engineering Enrolment and Degrees Awarded 2017

Trends in Engineering Enrolment and Degrees Awarded 2013-2017

Message from the Chief Executive Officer



Engineers Canada is pleased to publish this year's enrolment and degrees awarded report highlighting trends in post-secondary engineering education in Canada. This document comprises information on all academic terms from the calendar years 2013 through 2017.

Canadian post-secondary institutions continue to report a strong growth in undergraduate degrees awarded, presenting 23.3 per cent more engineering degrees in 2017 than in 2013. It is reassuring to see that every engineering discipline awarded more degrees in 2017 than in 2013, and that most engineering disciplines have experienced a growth in undergraduate enrolment numbers in the same period.

We are excited to report that the proportion of female students established new records in the categories of undergraduate and post-graduate enrolment, as well as undergraduate degrees awarded. As of 2017, women accounted for 21.8 per cent of undergraduate students and 25.7 per cent of post-graduate students, as well as 20.6 per cent of undergraduate engineering degrees awarded. We hope that these achievements will inspire engineering education and the engineering profession to break new records in the years to come.

Canadian engineering programs remain a popular choice for international students. In 2017, the number of undergraduate students reached 13,474 or 16.3 per cent of the total.

For the third consecutive year, Engineers Canada collected data regarding Indigenous students' enrolment and degrees awarded. Similar to the female population in engineering programs, Indigenous peoples are still greatly underrepresented, accounting for just over 1.2 per cent of reported undergraduate students. This is around four times lower than the 4.9 per cent of Canadians who identify as Indigenous peoples (Statistics Canada, 2017).

Engineers Canada will continue to track this information in the coming years to identify trends and to further encourage enrolment and achievement by post-secondary engineering programs that reflect Canada's diversity.

Gerard McDonald, MBA, P.Eng.
Chief Executive Officer

Acknowledgements

Engineers Canada gratefully acknowledges the contribution of data and information from the deans and associate deans of the engineering and applied science faculties at Canadian higher education institutions.

Cover Image Credit: Mikael Kristenson
Report By: Vinicius Rossi

Introduction

The Engineering Enrolment and Degrees Awarded Report is an annual examination of Canada's undergraduate and post-graduate engineering programs that evaluates trends in part- and full-time student enrolment and degrees awarded over a five-year period. In 2017, 51 universities provided information on their enrolment, programs, and degrees awarded.

The results highlight enrolment trends by discipline and institution, as well as the number of undergraduate and post-graduate degrees awarded each year. These results reveal trends specific to discipline, education, and gender, as well as the number of engineering graduates available to enter the labour market, international students' participation in Canadian engineering education, and students studying in co-op programs. Enrolment trends in undergraduate, master's, and doctorate levels are compared, along with men and women studying and graduating from engineering programs. For the third consecutive year, data regarding Indigenous peoples' enrolment and graduation from engineering programs is presented in this report. Engineers Canada plans to continue this data collection in coming years to be able to identify emerging trends.

Data is provided by higher education institutions to Engineers Canada. Engineers Canada compiles the information in this report. Findings are then shared with Engineers Canada's stakeholders and with the public. Engineers Canada greatly appreciates the contribution of these higher education institutions.

NOTE: When comparing data between years, only those higher education institutions who consistently responded to the survey year after year are included in the comparison. If an institution did not provide data in one or more of those years, they were not included in the comparison. This was done to ensure that the comparisons are fair and are as accurate as possible.

Undergraduate students

Total undergraduate student enrolment

Undergraduate student enrolment in accredited engineering programs totalled 82,480 in 2017. This is an increase of 14.4 per cent from 2013 and no significant change from 2016 was observed.

If engineering programs seeking accreditation—but not yet accredited—are included in the sum, total undergraduate enrolment rises to 83,953 students. Chart 1.1 illustrates undergraduate enrolment numbers for engineering institutions that consecutively replied to this survey since 2013.

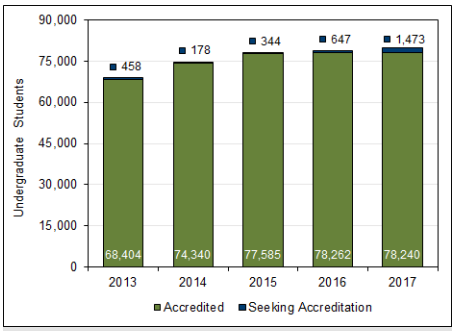


Chart 1.1 - Undergraduate enrolment (2013-2017, full-time equivalent)

Total undergraduate student enrolment by discipline

The most popular undergraduate engineering disciplines in 2017 were mechanical engineering, civil engineering, and electrical engineering, representing 22.1 per cent, 14.1 per cent, and 13.6 per cent of total undergraduate enrolment, respectively. On the other hand, the fields that accounted for the smallest proportion of undergraduate enrolment were geological engineering (0.8 per cent), materials or metallurgical engineering (1.1 per cent), and mining or mineral engineering (1.2 per cent).

Computer engineering (12.1 per cent), environmental engineering (11.2 per cent), and software engineering (8.9 per cent), presented the highest growth rate over the previous year. Likewise, the disciplines that experienced the largest cumulative growth from 2013 were software engineering (67.8 per cent), biosystems engineering (67.1 per cent), and computer engineering (56.7 per cent). Conversely, mining or mineral engineering (-22.5 per cent), geological engineering (-12.4 per cent), and materials or metallurgical engineering (-7.3 per cent) had the greatest rate of decline from the previous year. Additionally, only three disciplines presented a decline in enrolment since 2013: mining or mineral engineering (-25.8 per cent), geological engineering (-10.5 per cent), and materials or metallurgical engineering (-3.6 per cent). Once again, these comparisons were made between institutions that consecutively replied to the enrolment and degrees awarded survey since 2013.

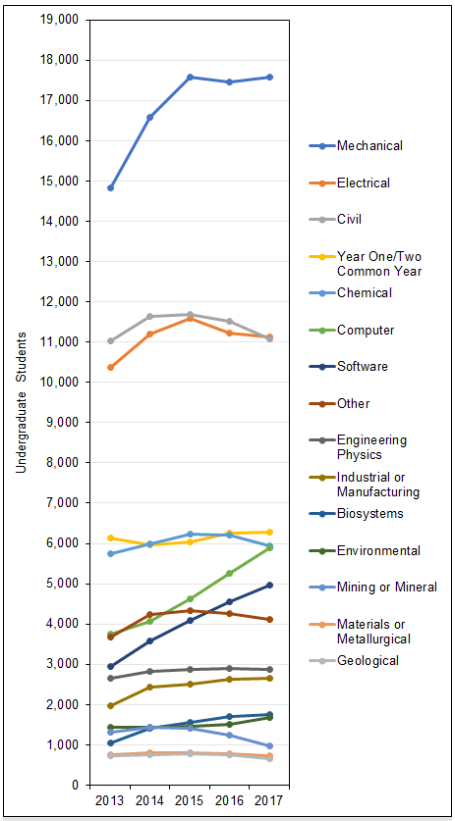


Chart 1.2 - Undergraduate enrolment by program (2013-2017, full-time equivalent)

Total undergraduate student enrolment by province

The highest proportion of undergraduate enrolment continues to belong to the provinces of Ontario and Quebec. In 2017, they accounted for 44.2 per cent and 25.6 per cent of total enrolment, respectively. Furthermore, Nova Scotia and Alberta underwent the largest percentage increase in enrolment from the previous year, with growths of 3.9 per cent and 2.6 per cent, respectively, over 2016.

The highest cumulative enrolment growths from 2013 were seen in Nova Scotia (28.7 per cent) and Ontario (22.9 per cent). On the other hand, New Brunswick (-15.0 per cent) and Alberta (-1.8 per cent) were the only provinces to experience a decrease in enrolment since 2013, while New Brunswick (-7.6 per cent), Saskatchewan (-3.0 per cent), and Quebec (-2.4 per cent) were the only ones to experience a decrease from the previous year.

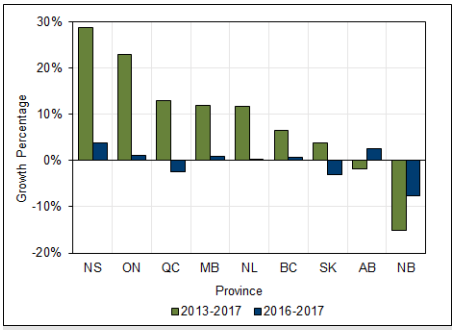


Chart 1.3 - Average rate of change in undergraduate enrolment by province (2013-2017, 2016-2017, full-time equivalent)

Total undergraduate degrees awarded

The number of undergraduate degrees awarded totalled 15,782 in 2017. The number of undergraduate degrees awarded increased by 7.3 per cent from the previous year, characterizing a faster growth when compared to the average annual increase of 5.4 per cent for the period of 2013 to 2017. Cumulatively, the number of degrees awarded has increased 23.3 per cent from 2013. Once again, these comparisons were made between institutions

that consecutively replied to the enrolment and degrees awarded survey since 2013.

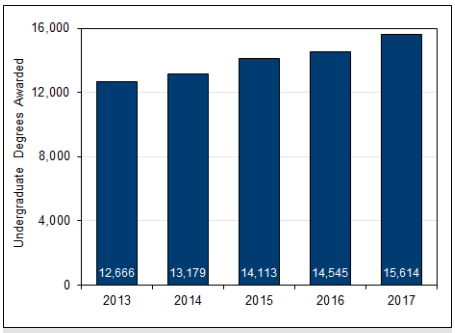


Chart 1.4 - Undergraduate degrees awarded (2013-2017)

Chart 1.5 shows that Manitoba, Ontario, and Saskatchewan witnessed the highest increases in undergraduate degrees awarded from 2016, with growths of 22.4 per cent, 11.2 per cent, and 10.8 per cent, respectively. Similarly, Manitoba, Ontario, and British Columbia experienced the highest increases in undergraduate degrees awarded from 2013, with growths of 66.8 per cent, 30.3 per cent, and 22.5 per cent, respectively.

No provinces experienced decreases in undergraduate degrees awarded from the previous year, while Newfoundland and Labrador was the only province to experience a cumulative decrease in undergraduate degrees awarded from 2013 (-22.2 per cent).

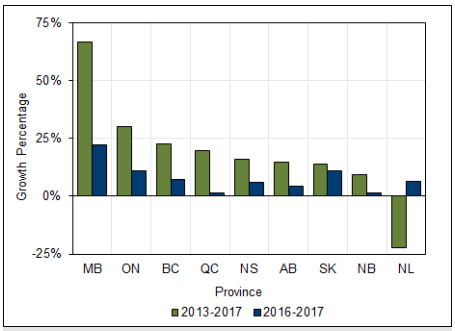


Chart 1.5 - Average rate of change in undergraduate degrees awarded by province (2013-2017, 2016-2017)

Mechanical engineering, civil engineering, and electrical engineering were awarded the greatest number of degrees in 2017, representing 25.3 per cent, 18.0 per cent, and 16.3 per cent of the total, respectively. Furthermore, biosystems engineering exhibited the largest growth in degrees awarded from both 2016 (22.4 per cent) and 2013 (83.6 per cent).

Even though environmental engineering (-16.8 per cent), materials or metallurgical engineering (-8.9 per cent), and mining or mineral engineering (-0.9 per cent) were the only disciplines to display decreases since 2016 in the number of undergraduate degrees awarded, every discipline saw an increase from 2013.

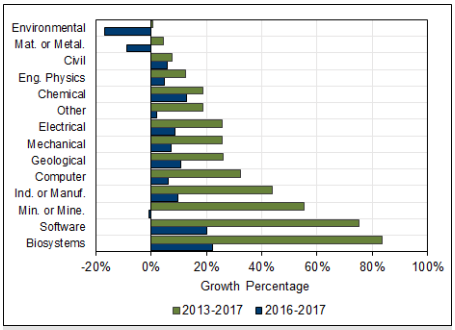


Chart 1.6 - Average rate of change in undergraduate degrees awarded by discipline (2013-2017, 2016-2017)

Graduate students

Total graduate student enrolment

Graduate student enrolment totalled 23,992 in 2017. When comparing institutions that consecutively replied to this survey since 2013, graduate student enrolment increased by 5.0 per cent from 2016 and 13.5 per cent from 2013, averaging a 3.3 per cent annual growth rate.

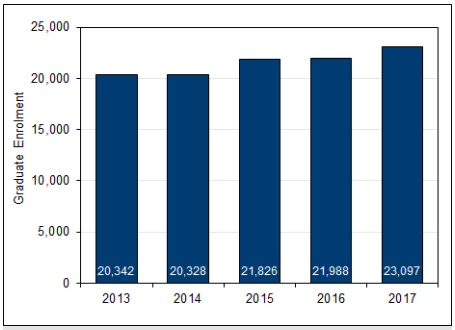


Chart 1.7 - Graduate Student Enrolment (2013-2017, full-time equivalent)

The province that displayed the highest growth in graduate enrolment over the previous year was Saskatchewan (15.2 per cent), while the one that displayed the highest cumulative growth since 2013 was Newfoundland and Labrador (51.8 per cent). The greatest decrease from both 2016 and 2013 was observed in New Brunswick at -13.6 per cent and -26.5 per cent, respectively.

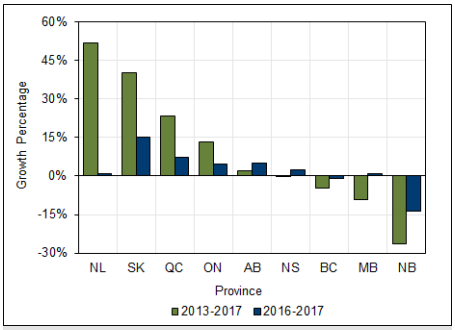


Chart 1.8 - Average rate of change in graduate student enrolment by province (2013-2017, 2016-2017, full-time equivalent)

Total post-graduate degrees awarded

A total of 6,844 master's and 1,713 doctorate of engineering degrees were awarded in 2017, for a combined sum of 8,557 post-graduate degrees awarded. This corresponds to a growth of 3.0 per cent in master's degrees awarded and 7.8 per cent in doctoral degrees awarded from 2016. Similarly, a cumulative growth of 22.6 per cent in master’s degrees awarded and 24.6 per cent in doctoral degrees awarded was seen from 2013.

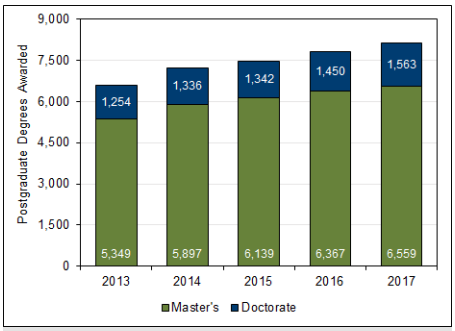


Chart 1.9 - Postgraduate degrees awarded (2013-2017)

New Brunswick displayed the fastest growth in the number of post-graduate degrees awarded from both 2016 (21.6 per cent) and 2013 (36.8 per cent).

Chart 1.10 indicates the average growth in master's degrees awarded by province for the periods of 2013 to 2017 and 2016 to 2017, while chart 1.11 indicates the same trends for doctoral degrees.

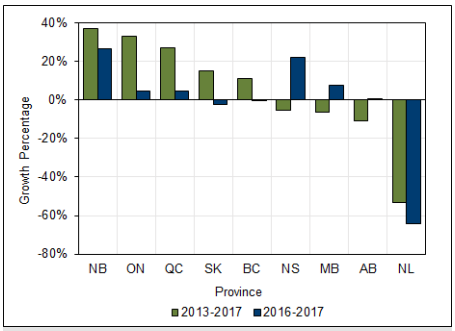


Chart 1.10 - Average rate of change in master's degrees awarded by province (2013-2017, 2016-2017)

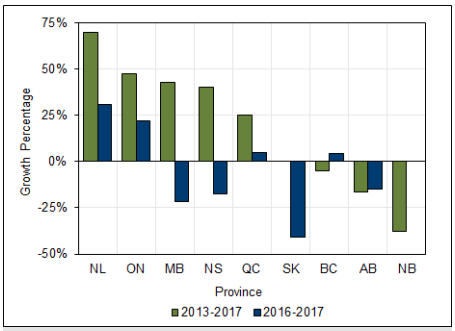


Chart 1.11 - Average rate of change in doctoral degrees awarded by province (2013-2017, 2016-2017)

Female students

Female undergraduate enrolment

Female enrolment remained above 20 per cent in 2017, with a 0.9 percentage point increase from 20.9 per cent in 2016 to 21.8 per cent in 2017. This is the highest proportion of females enrolled in undergraduate engineering programs ever recorded by this report. The total number of females enrolled in undergraduate-level engineering programs has increased by 3.7 per cent since 2016 and 32.2 per cent since 2013.

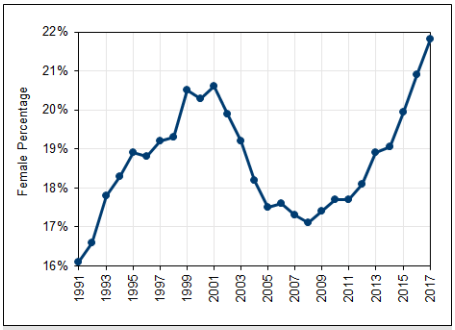


Chart 2.1 - Female undergraduate enrolment (1991-2017, full-time equivalent)

Female undergraduate enrolment by discipline

The disciplines that presented the highest percentages of female undergraduate enrolment in 2017 were biosystems engineering, environmental engineering, and chemical engineering, with 47.5 per cent, 41.2 per cent, and 39.3 per cent of total enrolment, respectively. Four out of the five disciplines with the highest percentage of females enrolled were also four out of the five disciplines with the least number of undergraduate students enrolled (see Chart 2.2).

The disciplines with the lowest percentages of female undergraduate enrolment were mechanical engineering (14.2 per cent), software engineering (14.6 per cent), and computer engineering (14.8 per cent). While these three disciplines account for 55.1 per cent of the total number of undergraduate students, they only account for 23.5 per cent of the total number of female undergraduate students.

Furthermore, the disciplines that presented the highest growth in the proportion of females from 2016 were chemical engineering and materials or metallurgical engineering, which rose from 36.8 per cent and 31.6 per cent in 2016, to 39.3 per cent and 33.1 per cent in 2017, respectively. Similarly, the disciplines that presented the highest growth in the proportion of females from 2013 were again materials and metallurgical engineering and chemical engineering, which went from 24.5 per cent and 32.8 per cent in 2013, to 33.1 per cent and 39.3 per cent in 2017, respectively.

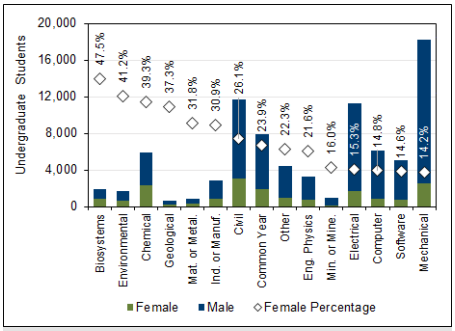


Chart 2.2 - Female undergraduate enrolment by discipline (2017, full-time equivalent)

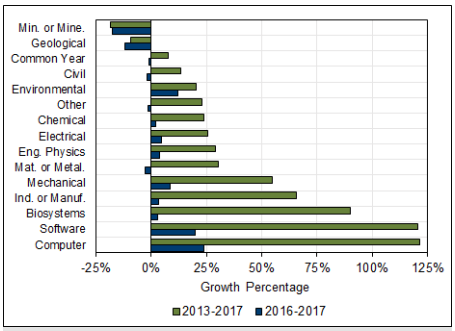


Chart 2.3 - Average rate of change in female undergraduate enrolment by discipline (2013-2017, 2016-2017, full-time equivalent)

Female undergraduate enrolment by province

Newfoundland and Labrador had the highest percentage of female undergraduates (28.2 per cent), while Saskatchewan displayed the lowest percentage of female enrolment in 2017, with only 18.5 per cent in the undergraduate engineering student population. Seven out of the nine provinces considered experienced increases in female undergraduate enrolment from 2016, while eight out of these same nine provinces experienced increases from 2013.

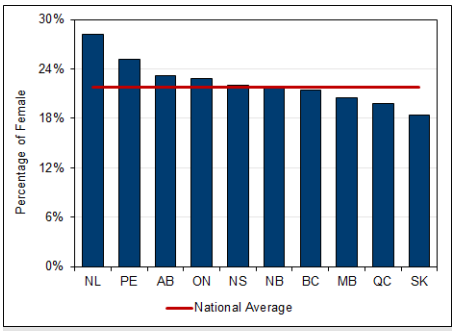


Chart 2.4 - Female undergraduate enrolment by province (2017, full-time equivalent)

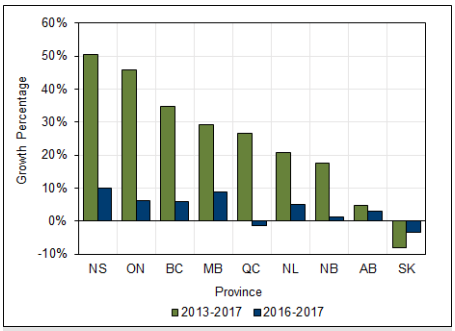


Chart 2.5 - Average rate of change in female undergraduate enrolment by province (2013-2017, 2016-2017, full-time equivalent)

Female undergraduate degrees awarded

Of the 15,782 engineering degrees awarded in 2017, 3,244 were awarded to women, accounting for 20.6 per cent of the sampled population. When comparing engineering programs that consecutively replied to this survey, increases of 11.9 per cent from 2016 and 34.7 per cent from 2013 were observed. Furthermore, this proportion is not suggestive of any significant gender differences in completion rates when compared to the 20.1 per cent average proportion of women in undergraduate enrolment over the past five years.

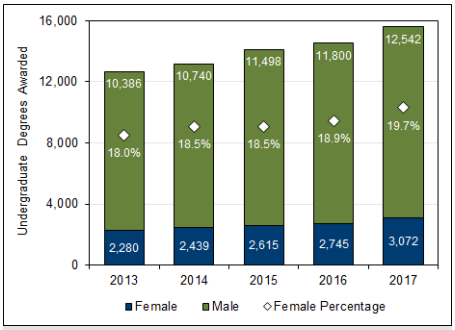


Chart 2.6 - Undergraduate degrees awarded to female students (2013-2017)

The province with the highest proportion of female undergraduate degrees awarded was Newfoundland and Labrador (27.6 per cent), followed by Nova Scotia (22.3 per cent), and Alberta (21.9 per cent). Moreover, Newfoundland and Labrador had the greatest increase in the proportion of female undergraduate degrees awarded when compared to 2016, with a growth of 10.4 percentage points overall.

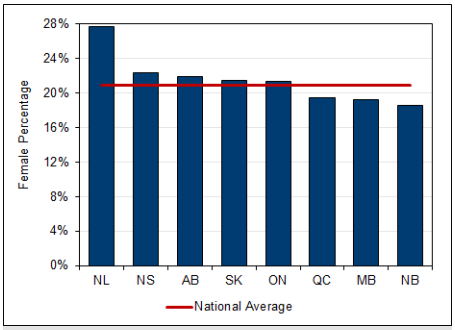


Chart 2.7 - Undergraduate degrees awarded to female students by province (2017)

The disciplines that had the highest growth over the previous year in the proportion of female undergraduate degrees awarded were that of environmental engineering (8.7 percentage points, going from 39.7 per cent in 2016 to 48.3 per cent in 2017) and biosystems engineering (3.3 percentage points, going from 42.5 per cent in 2016 to 45.8 per cent in 2017). Likewise, the categories that presented the highest growth from 2013 were that of environmental engineering (8.0 percentage points, going from 40.3 per cent in 2013 to 48.3 per cent in 2017) and industrial or manufacturing engineering (7.5 percentage points, going from 20.3 per cent in 2013 to 27.8 per cent in 2017).

The proportion of female undergraduate degrees awarded should experience a consistent growth in the coming years to the cumulative increase in the proportion of female undergraduate enrolment in many disciplines, as illustrated in Chart 2.3. This should be especially reflected in the disciplines of environmental engineering, industrial or manufacturing engineering, and chemical engineering.

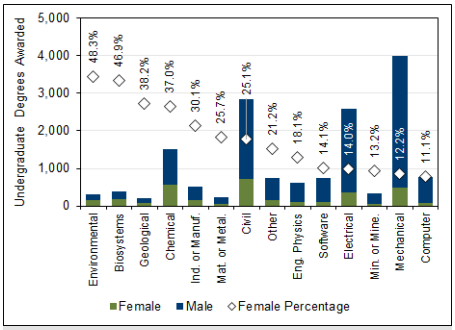


Chart 2.8 - Undergraduate degrees awarded to female students by discipline (2017)

Female graduate student enrolment

The proportion of females enrolled in post-graduate engineering programs continues to grow, reaching 25.7 per cent in 2017. When comparing institutions that consistently replied to this survey since 2013, an increase in proportion of 0.7 percentage points from 2016 and 2.1 percentage points from 2013 was observed.

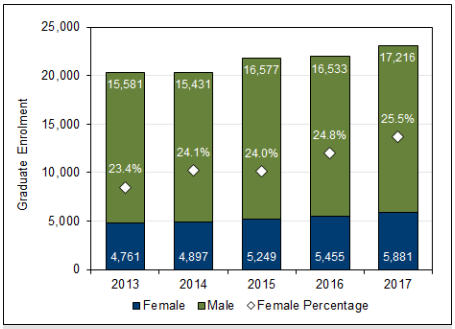


Chart 2.9 - Female graduate student enrolment (2013-2017, full-time equivalent)

The highest proportions of female post-graduate enrolment in 2017 were seen in Alberta, British Columbia, and Quebec, with values of 28.5 per cent, 26.1 per cent, and 25.8 per cent, respectively.

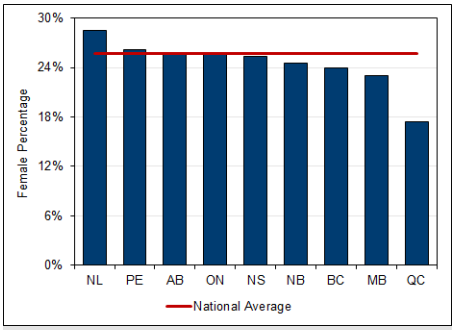


Chart 2.10 - Female graduate student enrolment by province (2017, full-time equivalent)

Female post-graduate degrees awarded

The number of post-graduate degrees awarded to women in 2017 consisted of 1,740 master's degrees and 401 doctoral degrees. When compared to 2016, this represented no significant changes in the number of master's degrees awarded or doctoral degrees awarded. However, when comparing institutions that consistently replied to this survey since 2013, the proportion of master's degrees awarded to women has decreased from 24.2 per cent in 2016 to 23.4 per cent in 2017, while the proportion of doctoral degrees awarded to women went from 17.2 per cent in 2016 to 15.7 per cent in 2017.

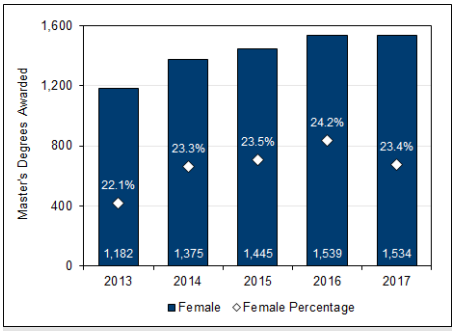


Chart 2.11 - Proportion of master's degrees awarded to female students (2013-2017

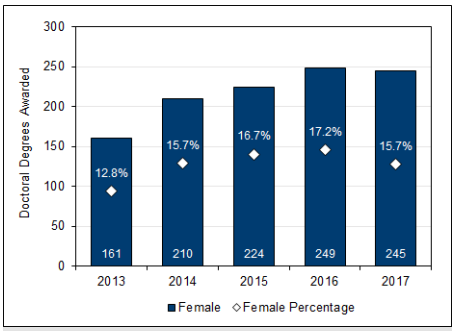


Chart 2.12 - Doctoral degrees awarded to female students (2013-2017)

In 2017, the province with the largest percentage of master's degrees awarded to women was Alberta, at 29.8 per cent, while New Brunswick had the greatest percentage of women receiving doctoral degrees, at 41.7 per cent. Conversely, Manitoba had the smallest percentage of master's degrees awarded to women (14.6 per cent), while Nova Scotia displayed the smallest proportion of women who received doctoral degrees (12.5 per cent).

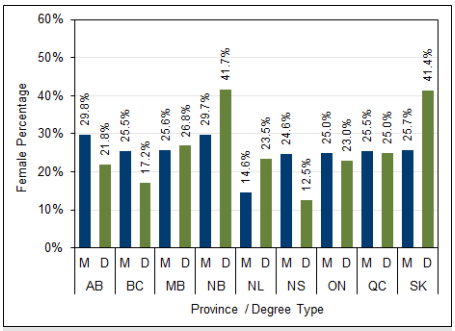


Chart 2.13 - Postgraduate degrees awarded to female students by province (2017)

Foreign students

Foreign undergraduate enrolment

There were 13,474 international students enrolled in undergraduate engineering programs in 2017, accounting for 16.3 per cent of total enrolment. When comparing institutions that consecutively replied to this survey since 2013, foreign undergraduate enrolment increased by 0.5 per cent from the previous year, when international students corresponded to 16.2 per cent of total undergraduate enrolment, and 12.4 per cent from 2013, when international students corresponded to 14.8 per cent of total undergraduate enrolment.

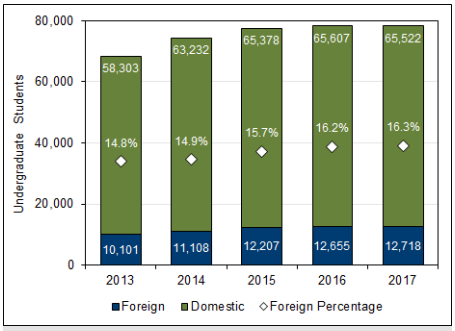


Chart 3.1 - Foreign undergraduate enrolment (2013-2017, full-time equivalent)

Foreign undergraduate enrolment by discipline

Materials or metallurgical engineering and industrial or manufacturing engineering had the highest proportion of foreign students enrolled, at 29.4 per cent and 22.8 per cent, respectively. Conversely, the programs that displayed the lowest proportion of international students were geological engineering (8.1 per cent) and biosystems engineering (9.5 per cent).

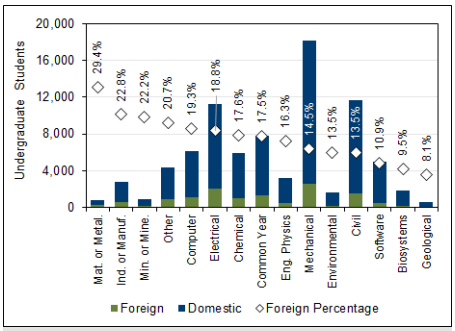


Chart 3.2 - Foreign undergraduate enrolment by discipline (2017, full-time equivalent)

Foreign undergraduate enrolment by province

Out of the 13,474 international students enrolled in undergraduate engineering programs in Canada in 2017, 42.5 per cent (5,729) studied in Ontario and 22.1 per cent (2,973) studied in Quebec. Prince Edward Island and Nova Scotia displayed the highest proportion of international students enrolled at 10.0 per cent (61 students) and 6.5 per cent (692 students), respectively. The largest growth in international student enrolment over the previous year was found in Nova Scotia (13.2 per cent) and Newfoundland and Labrador (10.6 per cent).

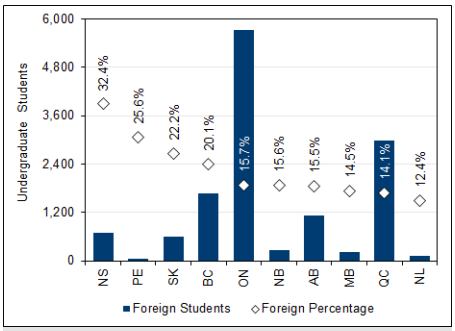


Chart 3.3 - Foreign undergraduate enrolment by province (2017, full-time equivalent)

Visa undergraduate degrees awarded

In 2017, 2,228 of the 15,774 undergraduate degrees were awarded to foreign students, representing 14.1 per cent overall. When comparing institutions that consecutively replied to this survey since 2013, the proportion of degrees awarded to international students experienced a growth of 0.9 percentage points from 2016 and 3.4 percentage points from 2013.

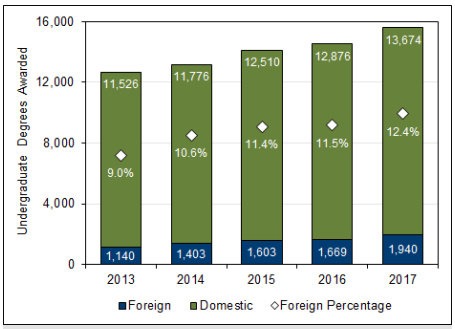


Chart 3.4 - Undergraduate degrees awarded to foreign students (2013-2017)

Foreign graduate student enrolment

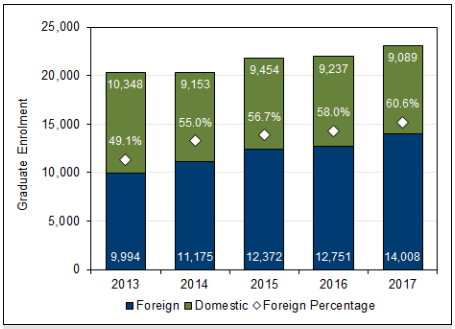


Chart 3.5 - Foreign graduate student enrolment (2013-2017, full-time equivalent)

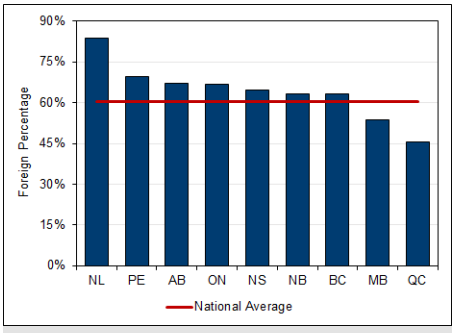


Chart 3.6 - Foreign graduate student enrolment by province (2017, full-time equivalent)

Foreign post-graduate degrees awarded

In 2017, the number of master's degrees awarded to foreign students totalled 4,059 while the number of doctoral degrees awarded totalled 861. When comparing institutions that consecutively replied to this survey, visa master's degrees awarded to foreign students increased by 2.9 per cent over the previous year and 70.5 per cent from 2013, while doctoral degrees awarded increased by 14.0 per cent over the previous year and 84.1 per cent from 2013.

The proportion of post-graduate degrees awarded to foreign students reached 59.3 per cent of all master's degrees and 50.3 per cent of all doctoral degrees in 2017. This represents a large growth from 2013, when the proportion of master's was 43.1 per cent and that of doctoral degrees was 27.2 per cent.

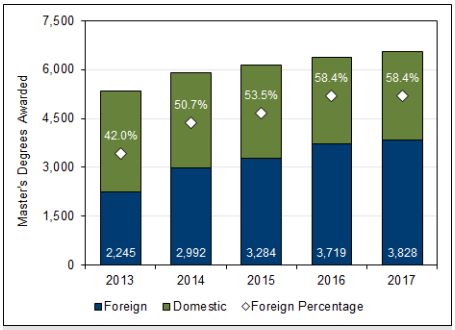


Chart 3.7 - Master's degrees awarded to foreign students (2013-2017)

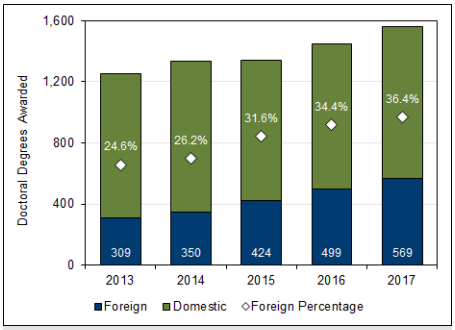


Chart 3.8 - Doctoral degrees awarded to foreign students (2013-2017)

In 2017, Newfoundland and Labrador, Nova Scotia, and Saskatchewan had the greatest proportion of master's degrees awarded to visa students (79.2 per cent, 76.0 per cent, and 67.6 per cent, respectively). Similarly, Newfoundland and Labrador, Quebec, and Alberta awarded the greatest proportion of their doctoral degrees to visa students at 76.5 per cent, 59.5 per cent, and 55.3 per cent, respectively.

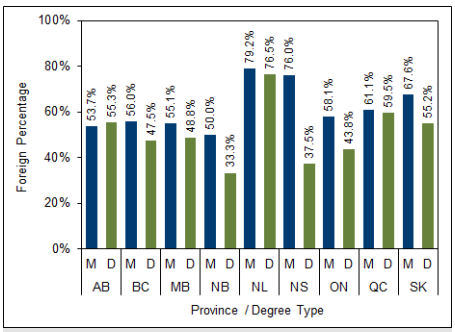


Chart 3.9 - Postgraduate degrees awarded to foreign students by province (2017)

Indigenous peoples’ enrolment and degrees awarded

Out of the 23 post-secondary institutions that responded to this survey about Indigenous peoples, 22 institutions were able to provide information on Indigenous peoples' undergraduate enrolment, while only 20 were able to provide information on undergraduate degrees awarded. The 22 institutions represent 44.2 per cent of undergraduate students enrolled in engineering programs across Canada, while the 20 post-secondary institutions represent 44.1 per cent of undergraduate degrees awarded. Furthermore, 20 institutions were able to present data on Indigenous enrolment in graduate programs, with only 18 of them presenting data on post-graduate degrees awarded. These 20 institutions represent 44.7 per cent of post-graduate students in Canada, whereas the 18 post-secondary institutions represent 41.8 per cent of post-graduate degrees awarded. As the reported numbers are of small magnitude, the data on Indigenous student enrolment is presented in a cumulative form to assure anonymity. While not all institutions are able to report the Indigenous identity of their students, Engineers Canada believes this data allows the engineering community to pursue conversations on increasing the representation of Indigenous peoples in engineering. Even if we cannot currently achieve a comprehensive and true representation of Indigenous peoples' enrolment and degrees awarded, this provides us with an important starting point.

While Indigenous peoples make up 4.9 per cent of the Canadian population (Statistics Canada, 2017), they only account for 1.2 per cent of total undergraduate enrolment in engineering programs and 1.2 per cent of undergraduate degrees awarded. Graduate student enrolment demonstrated lower enrolment of Indigenous peoples, at 0.4 per cent of total enrolment, while graduate degrees awarded represented 0.2 per cent of surveyed students.

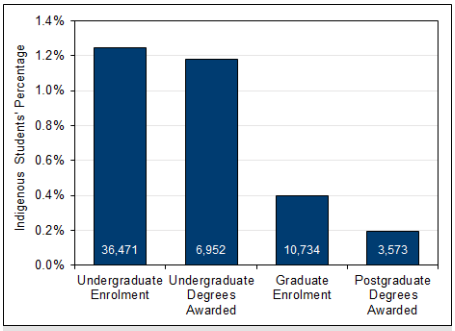


Chart 4.1 - Indigenous Peoples’ undergraduate enrolment and degrees awarded

Faculty members

There was a total of 3,990 full-time equivalent engineering faculty members in 2017. When comparing institutions that consecutively replied to this survey since 2013, the number of full-time equivalent faculty members remained nearly constant from 2016 and increased by 5.9 per cent from 2013.

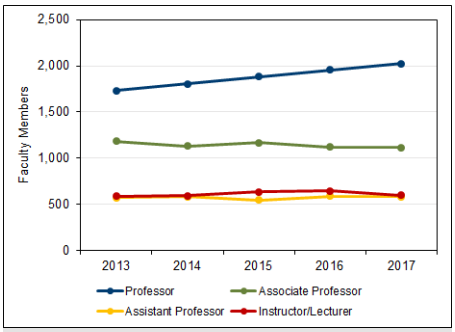


Chart 5.1 - Faculty members by position and gender (2017, full-time equivalent)

The percentage of female faculty members has increased from 13.4 per cent in 2013 and 14.9 per cent in 2016, to 15.5 per cent in 2017. The faculty position with the highest percentage of females was that of assistant professors (23.0 per cent), whereas the position with the lowest percentage was that of professor (11.2 per cent).

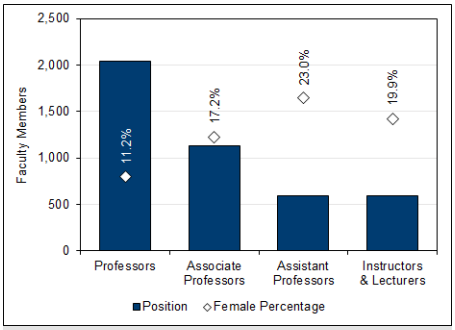


Chart 5.2 - Female faculty members (2017, full-time equivalent)

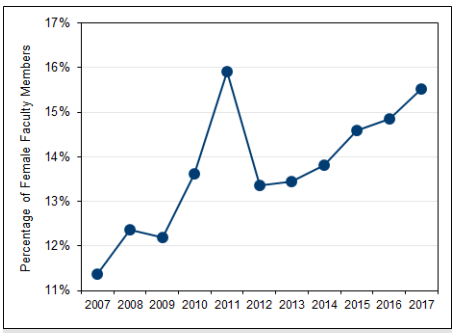


Chart 5.3 - Proportion of female faculty members (2007-2017, full-time equivalent)

As the number of female faculty members remains a small proportion of all faculties, Engineers Canada advises readers to use caution when drawing conclusions from year-to-year variation. Small inaccuracies in the reported data as well as changes in programming will affect the percentage presented in Chart 5.3.

Appendix A

Data found in the following tables can also be downloaded in Excel format.

Undergraduate Enrolment (U)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

Undergraduate Degrees Awarded (UD)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

Post-graduate Student Enrolment (G)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

Post-graduate Degrees Awarded (GD)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

Faculty Members by institution (F)

- »F.1. Faculty Composition

Co-op, Internship, and Professional Experience Programs (C)

- »C.1. Industry Experience Options by Institutions

Undergraduate Enrolment (U)

Table U.1.1 Total undergraduate enrolment in accredited engineering programs by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	1,080	1,402	1,558	1,787	1,855
Chemical	5,825	6,076	6,323	6,341	5,949
Civil	11,957	11,974	12,595	12,379	11,666
Computer	3,873	4,105	4,838	5,473	6,097
Electrical	10,556	11,411	11,764	11,391	11,222
Engineering Physics	3,081	3,222	2,865	3,303	3,245
Environmental	1,440	1,444	1,462	1,501	1,668
Geological	730	761	779	746	654
Industrial or Manufacturing	1,959	2,502	2,648	2,787	2,798
Materials or Metallurgical	886	793	1,004	951	869
Mechanical	15,368	17,091	18,691	18,415	18,194
Mining or Mineral	1,304	1,431	1,416	1,249	967
Software	2,974	3,616	4,114	4,649	5,020
Other	3,747	4,293	4,412	4,263	4,419
Year One/Two Common Year	7,668	7,083	7,905	8,067	7,849
TOTAL	72,449	77,203	82,375	83,302	82,473

Table U.1.2 Total female undergraduate enrolment in accredited engineering programs: 1991 to 2017

Year	Total Enrolment	Women	Percent of total
1991	36,923	5,947	16.1
1992	40,068	6,659	16.6
1993	41,329	7,348	17.8
1994	40,709	7,436	18.3
1995	39,800	7,505	18.9
1996	40,667	7,659	18.8
1997	41,675	8,006	19.2
1998	43,487	8,391	19.3
1999	44,390	9,103	20.5
2000	46,610	9,460	20.3
2001	48,929	10,089	20.6
2002	52,024	10,350	19.9
2003	53,718	10,317	19.2
2004	54,361	9,901	18.2
2005	53,901	9,435	17.5
2006	52,484	9,235	17.6
2007	55,190	9,561	17.3
2008	56,596	9,695	17.1
2009	57,970	10,062	17.4
2010	61,505	10,915	17.7
2011	65,468	11,563	17.7
2012	69,611	12,626	18.1
2013	72,449	13,686	18.9
2014	77,203	14,689	19.0
2015	82,375	16,412	19.9
2016	83,302	17,393	20.9
2017	82,473	17,985	21.8

Table U.1.3 Total female undergraduate enrolment in accredited engineering programs: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	450	603	700	840	881
Chemical	1,920	2,067	2,246	2,323	2,335
Civil	2,718	2,755	3,024	3,103	3,043
Computer	416	478	586	750	904
Electrical	1,367	1,471	1,567	1,635	1,716
Engineering Physics	555	597	590	676	701
Environmental	571	597	594	614	689
Geological	268	280	288	275	244
Industrial or Manufacturing	489	675	760	832	866
Materials or Metallurgical	219	206	272	290	276
Mechanical	1,672	1,882	2,268	2,394	2,582
Mining or Mineral	191	226	215	187	155
Software	330	413	511	618	734
Other	751	873	937	929	981
Year One/Two Common Year	1,769	1,567	1,856	1,927	1,877
TOTAL	13,686	14,689	16,412	17,393	17,985

Table U.1.4 Total 2017 undergraduate enrolment in engineering programs, which will be seeking accreditation

Institution	Program	
BCIT	Mineral and Mining Exploration Engineering	54
Concordia	Aerospace Engineering	95
Laurentian	Civil Engineering	16
McGill	Bioengineering	32
McGill	BioResource Engineering	179
McMaster	Biomedical Engineering	60
UOIT	Energy Systems Engineering	8
UOIT	Mechatronics Engineering	68
UQAT	Génie électrique	5
UQO	Génie électrique	45
Waterloo	Biomedical Engineering	147
York	Civil Engineering	152
York	Mechanical Engineering	161
York	Year One - Common	449
TOTAL		1,473

Table U.2.1 Total undergraduate enrolment in accredited engineering programs by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	7,334	5,818	7,317	6,839	7,170
BC	6,935	8,082	8,063	8,080	8,335
MB	1,412	1,483	1,521	1,565	1,580
NB	2,025	1,886	1,836	1,863	1,723
NL	937	989	1,030	1,046	1,048
NS	2,049	2,137	2,093	2,261	2,132
ON	30,314	34,113	36,344	37,208	36,434
PE	126	120	128		238
QC	18,744	19,993	21,266	21,654	21,099
SK	2,574	2,584	2,778	2,785	2,714
TOTAL	72,449	77,203	82,375	83,302	82,473

Table U.2.2 Total female undergraduate enrolment in accredited engineering programs by province: 2013 to 2017

Province	Total Enrolment	Female Enrolment	Percent Female Enrolment
AB	7,170	1,660	23.10%
BC	8,335	1,788	21.40%
MB	1,580	325	20.50%
NB	1,723	373	21.70%
NL	1,048	295	28.10%
NS	2,132	469	22.00%
ON	36,434	8,336	22.90%
PE	238	60	25.20%
QC	21,099	4,179	19.80%
SK	2,714	501	18.50%
TOTAL	82,473	17,985	21.80%

Table U.2.3 Total undergraduate foreign student enrolment in accredited engineering programs by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	795	644	929	968	1,112
BC	1,018	1,226	1,407	1,551	1,675
MB	245	276	258	245	229
NB	674	451	465	370	268
NL	95	102	109	118	131
NS	479	513	536	674	692
ON	4,201	4,843	5,449	5,729	5,729
PE	20	30	30		61
QC	2,643	2,778	3,118	3,265	2,973
SK	573	577	659	604	603
TOTAL	10,743	11,441	12,960	13,522	13,474

Table U.2.4 - Total undergraduate enrolment in accredited engineering programs by discipline and province: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK	Total
Biosystems		188	129				1,263		276	0	1,855
Chemical	832	236		226		146	3,236		1,105	169	5,949
Civil	952	941	269	380	163	159	4,349		4,242	211	11,666
Computer	278	387	125	1	59		3,793		1,230	224	6,097
Electrical	851	1,147	304	271	86	175	4,841		3,425	122	11,222
Engineering Physics	73	957				227	1,499		433	56	3,245
Environmental		253				82	985		84	264	1,668
Geological		116		39			202		233	64	654
Industrial or Manufacturing						125	823		1,465	385	2,798
Materials or Metallurgical	107	153				29	332		248		869
Mechanical	1,648	1,645	468	436	254	188	8,150		5,151	254	18,194
Mining or Mineral	102	150				74	291		351		967
Software	151	218		134			1,893		2,478	146	5,020
Other	300	167		113	185	817	1,920	238	378	301	4,419
Year One/Two Common Year	1,875	1,778	285	123	302	111	2,858			518	7,849
TOTAL	7,170	8,335	1,580	1,723	1,048	2,132	36,434	238	21,099	2,714	82,473

Table U.2.5 - Total female undergraduate enrolment in accredited engineering programs by discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK	Total
Biosystems		82	54				609		137	0	881
Chemical	296	85		84		56	1,231		528	56	2,335
Civil	321	247	71	94	58	41	1,164		997	50	3,043
Computer	42	72	17	0	12		584		157	19	904
Electrical	153	181	48	42	11	30	778		460	14	1,716
Engineering Physics	10	185				37	388		75	6	701
Environmental		108				33	400		41	107	689
Geological		45		14			84		88	13	244
Industrial or Manufacturing						39	286		491	50	866
Materials or Metallurgical	33	50				5	106		83		276
Mechanical	261	227	63	65	51	23	1,209		661	24	2,582
Mining or Mineral	13	26				9	59		49		155
Software	25	33		25			292		338	21	734
Other	59	40		25	75	170	433	60	73	47	981
Year One/Two Common Year	448	406	71	25	89	27	717			95	1,877
TOTAL	1,660	1,788	325	373	295	469	8,336	60	4,179	501	17,985

Table U.3.1 Total undergraduate enrolment in accredited engineering programs by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Acadia	171	153	153	169	
Alberta	4,145	3,277	4,222	4,207	4,352
BCIT	486	784	882	379	405
Calgary	3,189	2,541	3,095	2,632	2,818
Cape Breton	83	54	41	88	93
Carleton	3,228	3,511	4,022	4,281	4,443
Concordia	3,090	3,228	3,463	3,655	3,459
Conestoga	98	161	176	195	104
Dal	1,343	1,508	1,588	1,719	1,794
ETS	4,382	5,762	5,201	5,216	5,344
Guelph	942	1,320	1,392	1,612	1,738
Lakehead	798	849	1,006	1,087	
Laurentian	382	544	481	498	427
Laval	1,987	1,135	2,443	2,411	2,329
Manitoba	1,412	1,483	1,521	1,565	1,580
McGill	2,734	2,847	2,884	2,924	2,532
McMaster	2,737	3,330	3,473	3,601	3,633
Moncton	358	343	422	348	328
MUN	937	989	1,030	1,046	1,048
NSAC	65	72	19	28	18
Ottawa	2,340	2,661	3,009	3,130	3,260
Polytechnique	4,305	4,704	4,896	5,048	4,982
Queen's	2,745	2,811	2,974	3,066	2,986
Regina	1,157	1,166	1,389	1,406	1,376
RMC	513	418	416	379	470
Ryerson	3,193	3,632	3,913	4,071	4,222
Saskatchewan	1,418	1,417	1,390	1,378	1,338
SFU	1,120	1,245	1,215	1,162	1,090
Sherbrooke	1,339	1,358	1,459	1,469	1,569
SMU	297	281	214	258	227
StFX	90	70	79		
Toronto	4,560	4,672	4,745	4,681	4,553
UBC	3,699	3,501	3,537	3,821	3,638
UBCO	262	1,092	806	952	1,065
UNB	1,667	1,543	1,414	1,515	1,395
UNBC	84	85	89	102	190
UOIT	763	1,633	1,787	940	930
UPEI	126	120	128		238
UQAC	358	370	387	374	336
UQAM	42	47			
UQAR	89	88	114	91	83
UQAT	62	63	63	87	87
UQO	30	29	28	39	34
UQTR	327	362	329	342	344
UVic	1,284	1,374	1,534	1,664	1,948
Waterloo	5,182	5,315	5,456	5,545	5,750
Western	1,321	1,582	1,695	2,020	1,992

Windsor	1,245	1,468	1,540	1,591	1,563
York	267	207	260	513	365
TOTAL	72,449	77,203	82,375	83,302	82,473

Table U.3.2 Total female undergraduate enrolment in accredited engineering programs by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Acadia	38	31	37	44	
Alberta	827	658	893	894	948
BCIT	42	59	62	42	50
Calgary	773	645	791	677	712
Cape Breton	18	10	4	18	20
Carleton	450	504	669	712	762
Concordia	606	645	705	767	743
Conestoga	5	10	8	7	3
Dal	262	291	321	369	405
ETS	385	507	458	471	522
Guelph	228	362	388	464	493
Lakehead	88	88	130	126	
Laurentian	52	84	81	84	77
Laval	361	242	473	449	465
Manitoba	250	275	277	297	325
McGill	633	675	708	752	696
McMaster	514	587	686	726	756
Moncton	65	65	63	74	73
MUN	243	241	269	282	295
NSAC	9	17	1	5	7
Ottawa	445	527	595	622	678
Polytechnique	992	1,168	1,269	1,411	1,386
Queen's	775	815	882	918	881
Regina	266	249	251	234	239
RMC	71	51	48	34	60
Ryerson	539	638	738	782	873
Saskatchewan	279	277	272	283	263
SFU	155	187	197	185	178
Sherbrooke	213	207	214	221	234
SMU	42	42	32	42	37
StFX	26	22	27		
Toronto	1,116	1,198	1,282	1,370	1,458
UBC	783	787	863	974	952
UBCO	32	148	124	149	173
UNB	255	277	244	314	300
UNBC	38	32	35	43	84
UOIT	66	111	144	85	91
UPEI	18	10	14		60
UQAC	53	58	64	71	59
UQAM	3	4			
UQAR	13	8	6	5	3
UQAT	13	12	9	11	12
UQO	3	5	7	11	6
UQTR	50	69	62	60	52
UVic	133	151	188	242	351
Waterloo	975	1,058	1,188	1,301	1,460
Western	261	312	343	422	421

Windsor	178	236	242	253	258
York	47	38	51	91	67
TOTAL	13,686	14,689	16,412	17,393	17,985

Table U 3.3 Total undergraduate enrolment in accredited engineering programs by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other	Year One/Two Common Year
Alberta		467	672	278	491	73				107	997	102		157	1,008
BCIT			137		127						141				
Calgary		365	280		360						651		151	143	867
Cape Breton															93
Carleton	185		869	402	1,014	110	371				542		400	550	
Concordia			854	246	383				332		974		670		
Conestoga				43							62				
Dal		146	159		175		82		125	29	188	74		817	
ETS			1,510		1,357				414		1,326		736		
Guelph	424			262			365				619				68
Laurentian		125									171	121			10
Laval	123	113	383	117	162	153	84	105	157	41	466	113	200	112	
Manitoba	129		269	125	304						468				285
McGill		316	346	159	482					207	642	82	273	24	
McMaster		363	382	186	467	124				144	662		333		972
Moncton			148		72						108				
MUN			163	59	86						254			185	302
NSAC															18
Ottawa	293	396	603	395	573						739		261		
Polytechnique	153	421	750	368	488	280		95	472		991	156	599	210	
Queen's		315	308	274	205	442		105			520	87			730
Regina				164			223		385				146	301	156
RMC		27	63	52	33						64			70	161
Ryerson	360	401	722	447	679				256		823			461	73
Saskatchewan		169	211	59	122	56	41	64			254				363
SFU						718					372				
Sherbrooke		252	281	280	318						438				
SMU						227									
Toronto		481	426	648	592	823			412	188	710	83			191
UBC	94	236	414	332	496	239	63	116		153	386	150		167	792
UBCO			178		128						265				494
UNB		226	232	1	199			39			328		134	113	123
UNBC							190								
UOIT					193				31		450		131	126	
UPEI														238	
UQAC			118	26	76			33			83				
UQAR					17						35			32	
UQAT					44						43				
UQO				34											

UQTR		2			99				90		153				
UVic	94		212	55	396						481		218		492
Waterloo		922	509	904	449		214	97			1,536		500	619	
Western		206	229	87	181						440		205	57	587
Windsor			237		351		36		125		748				66
York				95	105						65		63	37	
TOTAL	1,855	5,949	11,666	6,097	11,222	3,245	1,668	654	2,798	869	18,194	967	5,020	4,419	7,849

Year

Table U 3.4 Total female undergraduate enrolment in accredited engineering programs by institution and discipline: 2017

Year One/Two Common

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other	
Acadia														44	
Alberta		168	212	31	75	10				35	131	17		182	33
BCIT			24		10						8				
Calgary		111	108		70						106		18	213	51
Cape Breton														18	
Carleton	64		205	32	139	18	94				49		42		69
Concordia			259	23	70				143		159		113		
Conestoga				3							5				
Dal		42	39		20		28		32	6	23	9			172
ETS			221		124				28		66		32		
Guelph	217			31			147				59			10	
Lakehead		35	60		13						14		5		
Laurentian		38									21	23		3	
Laval	56	37	81	7	17	20	38	32	49	11	46	17	19		19
Manitoba	54		61	17	44						57			65	
McGill		165	140	25	118					80	140	20	47		17
McMaster		128	88	21	94	14				43	77		44	218	
Moncton			43		17						14				
MUN			51	9	10						43			97	72
NSAC														5	
Ottawa	143	140	123	46	61						67		43		
Polytechnique	83	229	312	49	77	52		54	223		193	28	71		41
Queen's		151	131	34	42	113		66			134	26		222	
Regina				13			83		52				16	5	65
RMC		10	2	3	1						6			12	
Ryerson	159	119	146	45	78				75		65			29	66
Saskatchewan		68	53	4	9	5	21	16			23			84	
SFU						142					42				
Sherbrooke		88	62	11	16						44				
SMU						42									
Toronto		226	157	114	146	220			163	71	162	23		89	
UBC	37	85	116	70	107	40	29	48		44	96	25		241	36
UBCO			25		12						21			149	
UNB		97	57	18	18			18			41		11	32	21
UNBC							43								
UOIT					39				5		67		24		36
UQAC			36	3	6			15			11				
UQAR					2						2				2

UQAT					6						5				
UQO				11											
UQTR					10				39		11				
UVic				2	47						51		21	93	
Waterloo		298	168	100	87		111	27			211		82		219
Western		90	65	6	29						57		33	124	20
Windsor			60		43		20		26		88			16	
York				23	17						15				10
TOTAL	812	2,323	3,103	750	1,671	676	614	275	834	290	2,428	187	621	1,950	947

Undergraduate Degrees Awarded (UD)

Table UD.1.1 Total undergraduate degrees awarded by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	194	211	235	278	384
Chemical	1,307	1,292	1,297	1,370	1,511
Civil	2,751	2,688	2,772	2,757	2,843
Computer	686	573	713	713	766
Electrical	2,137	2,202	2,375	2,435	2,578
Engineering Physics	548	532	599	588	618
Environmental	300	360	337	363	302
Geological	164	152	192	187	207
Industrial or Manufacturing	361	440	527	472	518
Materials or Metallurgical	216	213	235	248	226
Mechanical	3,255	3,338	3,634	3,791	3,987
Mining or Mineral	220	280	307	345	342
Software	434	547	632	634	751
Other	790	908	702	724	749
Year One/Two Common Year	72	0	0		
TOTAL	13,363	13,808	14,557	14,904.60	15,781.50

Table UD.1.2 Total undergraduate degrees awarded to female students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	87	101	97	115	180
Chemical	427	402	442	466	559
Civil	605	597	644	657	713
Computer	71	59	67	61	85
Electrical	283	330	335	314	361
Engineering Physics	92	93	115	120	112
Environmental	121	147	138	144	146
Geological	58	57	71	69	79
Industrial or Manufacturing	73	125	139	138	156
Materials or Metallurgical	43	53	51	66	58
Mechanical	344	357	391	428	485
Mining or Mineral	38	44	64	62	45
Software	43	57	57	64	106
Other	162	182	129	178	159
Year One/Two Common Year	17	0	0		
TOTAL	2,447	2,621	2,740	2,882	3,244

Table UD.2.1 Total undergraduate degrees awarded by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	1,282	1,346	1,373	1,408	1,467
BC	1,278	1,324	1,519	1,470	1,622
MB	188	219	218	255	312
NB	320	308	307	340	345
NL	270	194	196	197	210
NS	477	654	318	346	367
ON	5,927	5,996	6,465	6,692.60	7,126.50
PE					7
QC	3,202	3,370	3,676	3,771	3,855
SK	419	397	485	425	470
TOTAL	13,363	13,808	14,557	14,904.60	15,781.50

Table UD.2.2 Total undergraduate degrees awarded to female students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	290	277	319	299	321
BC	172	210	265	253	286
MB	29	52	42	47	60
NB	45	65	53	55	64
NL	77	44	42	34	58
NS	101	142	63	57	82
ON	1,123	1,155	1,215	1,354	1,522
PE					0
QC	518	593	656	698	750
SK	92	83	85	85	101
TOTAL	2,447	2,621	2,740	2,882	3,244

Table UD.2.3 Total undergraduate degrees awarded to foreign students by province: 2013to 2017

Province	2013	2014	2015	2016	2017
AB	107	122	114	171	169
BC	109	140	197	193	239
MB	14	34	44	41	63
NB	57	70	71	69	63
NL	16	30	22	21	21
NS	65	103	53	63	64
ON	585	640	816	833	1,020.50
PE					0
QC	353	424	421	441	514
SK	63	63	84	72	74
TOTAL	1,369	1,626	1,822	1,904	2,227.50

Table UD.2.4 Total undergraduate degrees awarded by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
Biosystems		39	37				212		96	
Chemical	245	65		56		50	799		221	75
Civil	252	278	68	108	47	62	1,006		950	72
Computer	34	106	21	1	15		409		151	29

Electrical	271	283	82	62	18	66	1,160		608	28
Engineering Physics	13	193					333.50		68	10
Environmental		60				22	147		22	51
Geological		46		15			70		49	27
Industrial or Manufacturing						41	208		251	18
Materials or Metallurgical	40	32				13	88		53	
Mechanical	387	432	104	73	69	71	1799		971	81
Mining or Mineral	69	27				42	119		85	
Software	35	32		6			378		283	17
Other	121	29		24	61		398	7	47	62
TOTAL	1,467	1,622	312	345	210	367	7,126.50	7	3,855	470

Table UD.2.5 Total undergraduate degrees awarded to women by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
Biosystems		12	14				101		53	
Chemical	76	26		20		18	295		104	20
Civil	80	54	11	24	11	15	281		216	21
Computer	6	18	5		1		43		9	3
Electrical	50	33	14	4	7	7	172		71	3
Engineering Physics		30					72		10	
Environmental		31				11	74		9	21
Geological		21		7			26		20	5
Industrial or Manufacturing						10	63		80	3
Materials or Metallurgical	11	4				4	26		13	
Mechanical	55	46	16	8	13	12	223		104	8
Mining or Mineral	3	3				5	19		15	
Software	8	3					50		38	7
Other	32	5		1	26		77		8	10
TOTAL	321	286	60	64	58	82	1,522		750	101

Table UD.3.1 Total undergraduate degrees awarded by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Acadia		0			
Alberta	760	737	792	810	827
BCIT	52	54	71	73	72
Calgary	522	609	581	598	640
Carleton	427	453	530	568	584
Concordia	462	458	491	472	500
Conestoga	11	30	26	30	42
Dal	477	582	318	346	367
ETS	828	788	898	948	1,018
Guelph	104	220	212	279	318
Lakehead	302	283	298	312	
Laurentian	249	83	78	110	106
Laval	300	300	441	502	499
Manitoba	188	219	218	255	312
McGill	487	546	574	565	586
McMaster	590	588	653	644	717
Moncton	67	71	49	45	65

MUN	270	194	196	197	210
NSAC		72	0	0	
Ottawa	286	363	374	347	444
Polytechnique	686	790	780	797	777
Queen's	641	594	595	576	625
Regina	123	158	160	153	149
RMC	93	0	89	0	0
Ryerson	514	557	567	733	837
Saskatchewan	296	239	325	272	321
SFU	142	157	189	220	244
Sherbrooke	279	276	286	299	304
SMU		0		0	0
Toronto	960	938	1,035	1,048	1,116
UBC	764	758	889	769	784
UBCO	142	145	151	157	221
UNB	253	237	258	295	280
UNBC	14	25	28	32	30
UOIT	228	239	262	289	355
UPEI					7
UQAC	65	71	72	71	84
UQAM	9	6			
UQAR	16	16	16	14	13
UQAT	7	10	14	10	14
UQO	7	5	5	5	
UQTR	56	104	99	88	60
UVic	164	185	191	219	271
Waterloo	1,082	1,113	1,194	1,136	1,206
Western	249	291	305	317	367
Windsor	191	221	218	283	360
York		23	29	21	50
TOTAL	13,363	13,808	14,557	14,904.60	15,781.50

Table UD.3.2 Total undergraduate degrees awarded to female students by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Acadia		0			
Alberta	159	141	176	162	163
BCIT	1	1	2	5	5
Calgary	131	136	143	137	158
Carleton	74	74	94	102	92
Concordia	88	96	92	100	105
Conestoga	1	5	1	1	1
Dal	101	125	63	57	82
ETS	90	65	83	79	89
Guelph	30	58	49	70	99
Lakehead	28	30	31	32	
Laurentian	33	16	8	22	11
Laval	49	49	90	94	94
Manitoba	29	52	42	47	60
McGill	75	134	127	129	161

McMaster	104	111	101	111	143
Moncton	8	20	10	3	10
MUN	77	44	42	34	58
NSAC		17	0	0	
Ottawa	57	70	82	72	104
Polytechnique	148	168	175	201	224
Queen's	170	159	170	184	195
Regina	23	36	22	25	37
RMC	11	0	9	0	0
Ryerson	92	112	112	127	152
Saskatchewan	69	47	63	60	64
SFU	12	21	37	37	26
Sherbrooke	46	40	46	44	49
SMU		0		0	0
Toronto	207	237	236	275	280
UBC	128	141	185	156	187
UBCO	11	20	21	15	28
UNB	37	45	43	52	54
UNBC	8	10	10	17	15
UOIT	21	17	16	17	24
UPEI					0
UQAC	8	10	5	14	20
UQAM	0	0			
UQAR	0	3	2	4	0
UQAT	2	1	3	5	3
UQO	2	0	0	0	
UQTR	10	27	33	28	5
UVic	12	17	10	23	25
Waterloo	218	189	201	211	255
Western	48	48	64	73	93
Windsor	29	26	38	52	63
York		3	3	5	10
TOTAL	2,447	2,621	2,740	2,882	3,244

Table UD.3.3 Total undergraduate degrees awarded by institution & discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		160	156	34	113	13				40	194	69		48
BCIT			24		20						28			
Calgary		85	96		158						193		35	73
Carleton	21		129	24	133	9	41				98		40	89
Concordia		170	17	54				44		165		50		
Conestoga			11							31				
Dal		50	62		66		22		41	13	71	42		
ETS			331		251				68		263		105	
Guelph	89			36			68				125			
Laurentian	23									35	48			
Laval	26	21	127	20	32	28	22	18	33	14	92	36	23	7
Manitoba	37		68	21	82						104			
McGill	43	90	67	18	114					39	149	19	47	
McMaster	96	97	39	138	35				49	168		95		
Moncton			30		18						17			
MUN			47	15	18						69			61
Ottawa	33	84	125	21	54						88		39	
Polytechnique	27	58	158	41	62	40		17	89		162	30	58	35
Queen's		105	84	37	46	112		47			146	48		
Regina				17			35		18				17	62
RMC														
Ryerson	69	53	184	67	142				68		152			102
Saskatchewan	75	72	12	28	10	16	27			81				
SFU						143					101			
Sherbrooke	50	68	48	46						92				
SMU														
Toronto		138	111		339	178			97	39	191	23		
UBC	23	65	141	93	132	50	30	46		32	116	27		29
UBCO			72		53						96			
UNB		56	78	1	44			15			56		6	24
UNBC							30							
UOIT					83				6		182		30	54
UPEI														7
UQAC			29	7	13			14			21			
UQAR					3						5			5
UQAT					7						7			
UQTR		2			26				17		15			
UVic	16		41	13	78						91		32	
Waterloo		235	118	153	119		33	23			285		106	134
Western		65	80	3	38						110		63	8

Windsor			78		64		5		37		176			
York				18	4						12		5	11
TOTAL	384	1,511	2,843	766	2,578	618	302	207	518	226	3,987	342	751	749

Table UD.3.4 Total undergraduate degrees awarded to women by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		44	48	6	17					11	21	3		13
BCIT			3		1						1			
Calgary		32	32		33						34		8	19
Carleton	11		25	2	15	1	16				10		2	10
Concordia		45	1	9				23		17		10		
Conestoga										1				
Dal		18	15		7		11		10	4	12	5		
ETS			46		24				5		9		5	
Guelph	44			4			31				20			
Laurentian	7									1	3			
Laval	11	6	28	1	3	2	9	4	12	4	6	4	2	2
Manitoba	14		11	5	14						16			
McGill	26	44	22	1	19					9	25	4	11	
McMaster	39	26	5	28	2				13	19		11		
Moncton			7		1						2			
MUN			11	1	7						13			26
Ottawa	18	28	28	4	10						11		5	
Polytechnique	16	33	49	5	8	8		9	38		35	7	10	6
Queen's		51	39	6	5	27		19			39	9		
Regina				2			15		3				7	10
RMC														
Ryerson	28	20	38	8	13				22		11			12
Saskatchewan	20	21	1	3		6	5			8				
SFU						21					5			
Sherbrooke	21	17	1	3						7				
SMU														
Toronto		48	34		60	42			37	13	39	7		
UBC	7	26	32	18	22	9	16	21		4	24	3		5
UBCO			11		7						10			
UNB		20	17		3			7			6			1
UNBC							15							
UOIT					7						7		2	8
UPEI														
UQAC			9		1			7			3			
UQAR														
UQAT					1						2			
UQTR					3				2					
UVic	5		8		3						6		3	
Waterloo		70	41	8	18		23	7			29		17	42

Western		32	26		10						9		13	3
Windsor			24		6		4		4		25			
York				6							2			2
TOTAL	180	559	713	85	361	112	146	79	156	58	485	45	106	159

Post-graduate Enrolment (G)

Table G.1.1 Total full-time master's students: 2013 to 2017

Year	2013	2014	2015	2016	2017
Cdn Male	4,654	4,001	4,259	4,232	4,308
Cdn Female	1,396	1,221	1,334	1,459	1,568
Visa Male	4,454	4,945	5,569	5,814	6,568
Visa Female	1,348	1,679	1,877	1,971	2,278
Total	11,852	11,845	13,040	13,476	14,723

Table G.1.2 Total full-time doctoral students: 2013 to 2017

Year	2013	2014	2015	2016	2017
Cdn Male	3,336	3,065	3,064	2,839	2,675
Cdn Female	1,089	1,000	989	963	965
Visa Male	3,287	3,615	4,018	4,136	4,266
Visa Female	997	1,076	1,150	1,209	1,354
Total	8,709	8,756	9,221	9,146	9,261

Table G.1.3 Total part-time master's students: 2013 to 2017

Year	2013	2014	2015	2016	2017
Cdn Male	1,790	1,290	1,190	1,470	1,314
Cdn Female	498	395	324	375	360
Visa Male	204	203	228	310	309
Visa Female	47	64	70	110	120
Total	2,539	1,952	1,812	2,264	2,103

Table G.1.4 Total part-time doctoral students: 2013 to 2017

Year	2013	2014	2015	2016	2017
Cdn Male	285	239	255	236	232
Cdn Female	59	52	56	53	50
Visa Male	39	34	34	31	36
Visa Female	2	9	6	7	9
Total	386	334	351	327	327

Table G.1.5 Total full-time equivalent master’s students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	378	415	431	464	663
Chemical	1,026	910	989	1,070	1,108
Civil	1,875	1,843	2,064	2,280	2,464
Computer	439	337	402	376	417
Electrical	3,420	3,412	3,645	3,582	3,683
Engineering Physics	184	202	203	179	192
Environmental	296	352	360	396	364
Geological	18	16	16	17	13

Industrial or Manufacturing	427	449	415	458	573
Materials or Metallurgical	261	242	239	251	253
Mechanical	2,110	2,148	2,517	2,699	3,068
Mining or Mineral	148	188	211	210	179
Software	284	297	344	347	412
Other	1,856	1,836	1,878	1,900	2,139
TOTAL	12,725	12,646	13,715	14,229	15,529

Table G.1.6 Total full-time equivalent doctoral students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	429	448	483	508	648
Chemical	1,007	958	967	980	967
Civil	1,292	1,334	1,424	1,352	1,408
Computer	145	149	199	230	227
Electrical	2,354	2,406	2,423	2,390	2,246
Engineering Physics	219	227	247	192	213
Environmental	136	116	126	143	127
Geological	11	6	2	0	3
Industrial or Manufacturing	185	185	214	193	175
Materials or Metallurgical	359	366	362	380	385
Mechanical	1,631	1,608	1,662	1,666	1,665
Mining or Mineral	100	119	124	142	118
Software	27	51	17	29	44
Other	958	928	1,134	1,055	1,150
TOTAL	8,851	8,899	9,383	9,260	9,378

Table G.1.7 Total full-time equivalent female master's students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	152	164	171	184	283
Chemical	358	321	370	387	411
Civil	505	489	566	637	761
Computer	56	68	83	102	100
Electrical	721	789	840	873	949
Engineering Physics	42	45	44	44	53
Environmental	134	162	162	182	177
Geological	7	5	4	6	4
Industrial or Manufacturing	114	112	98	119	131
Materials or Metallurgical	77	68	66	65	62
Mechanical	276	328	383	417	434
Mining or Mineral	35	47	53	55	44
Software	54	66	86	97	131
Other	401	412	426	427	497
TOTAL	2,933	3,075	3,352	3,596	4,038

Table G.1.8 Total full-time equivalent female doctoral students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	160	161	174	192	252
Chemical	351	327	316	315	323
Civil	317	337	350	356	371

Computer	36	33	46	53	50
Electrical	427	452	456	462	468
Engineering Physics	47	52	55	39	48
Environmental	51	44	52	55	51
Geological	3	2	1	0	1
Industrial or Manufacturing	39	42	53	51	50
Materials or Metallurgical	99	106	121	115	116
Mechanical	347	278	264	271	296
Mining or Mineral	26	36	36	40	34
Software	4	9	2	6	11
Other	204	226	250	236	267
TOTAL	2,112	2,104	2,177	2,193	2,339

Table G.1.9 Total full-time equivalent foreign master's students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	130	117	127	138	221
Chemical	398	492	533	570	602
Civil	701	708	849	975	1,154
Computer	203	184	234	219	231
Electrical	1,904	2,200	2,390	2,360	2,474
Engineering Physics	67	61	73	64	67
Environmental	132	185	185	207	182
Geological	6	5	4	3	2
Industrial or Manufacturing	218	247	236	284	398
Materials or Metallurgical	124	109	103	111	105
Mechanical	913	1,056	1,352	1,494	1,818
Mining or Mineral	73	85	99	96	87
Software	184	231	258	246	303
Other	858	1,056	1,132	1,197	1,415
TOTAL	5,912	6,737	7,576	7,965	9,058

Table G.1.10 Total full-time equivalent foreign doctoral students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	161	175	188	213	299
Chemical	481	523	553	607	625
Civil	613	678	738	735	815
Computer	80	76	113	134	143
Electrical	1,209	1,328	1,422	1,431	1,368
Engineering Physics	98	108	127	99	116
Environmental	61	63	62	81	71
Geological	5	1	2	0	2
Industrial or Manufacturing	100	98	113	96	87
Materials or Metallurgical	199	218	229	250	252
Mechanical	786	872	955	1,006	1,057
Mining or Mineral	49	61	65	75	62
Software	11	17	5	4	16
Other	450	494	641	628	727
TOTAL	4,300	4,712	5,213	5,359	5,641

Table G.2.1 Total full-time equivalent master's students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	1,307	1,071	1,214	1,324	1,443
BC	848	857	1,065	871	906
MB	228	248	245	253	265
NB	171	133	151	139	134
NL	267	298	300	359	350
NS	418	389	367	366	385
ON	5,343	5,296	5,503	5,912	6,457
QC	3,799	4,023	4,479	4,578	5,088
SK	344	332	391	428	500
TOTAL	12,725	12,646	13,715	14,229	15,529

Table G.2.2 Total full-time equivalent doctoral students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	1,141	1,081	1,101	1,103	1,137
BC	895	884	1,039	842	774
MB	214	214	240	245	243
NB	111	86	76	93	57
NL	127	151	165	213	221
NS	113	123	144	148	138
ON	3,294	3,394	3,424	3,455	3,338
QC	2,751	2,768	2,858	2,925	3,199
SK	206	200	337	237	272
TOTAL	8,851	8,899	9,383	9,260	9,378

Table G.2.3 Total full-time equivalent female master's students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	361	325	360	407	428
BC	194	197	243	226	248
MB	57	67	61	65	72
NB	35	24	41	36	30
NL	72	69	63	66	65
NS	61	62	78	86	93
ON	1,212	1,302	1,378	1,509	1,672
QC	847	943	1,029	1,098	1,313
SK	95	87	100	104	116
TOTAL	2,933	3,075	3,352	3,596	4,038

Table G.2.4 Total full-time equivalent female doctoral students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	332	276	255	263	298
BC	188	190	200	188	185
MB	42	44	50	54	56
NB	34	21	17	18	11
NL	23	32	34	41	34
NS	29	28	33	29	31
ON	743	766	792	801	830

QC	667	688	714	736	820
SK	53	60	83	63	74
TOTAL	2,112	2,104	2,177	2,193	2,339

Table G.2.5 Total full-time equivalent foreign master's students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	610	622	656	675	751
BC	459	502	665	540	589
MB	123	135	134	149	167
NB	87	68	60	49	55
NL	205	245	264	297	285
NS	294	268	255	274	295
ON	1,983	2,474	2,737	3,058	3,523
QC	1,916	2,183	2,538	2,644	3,066
SK	236	241	267	280	327
TOTAL	5,912	6,737	7,576	7,965	9,058

Table G.2.6 Total full-time equivalent foreign doctoral students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	485	719	721	777	842
BC	534	536	643	522	503
MB	123	135	148	153	167
NB	77	57	27	47	27
NL	80	105	125	160	178
NS	48	64	67	69	69
ON	1,358	1,454	1,587	1,634	1,613
QC	1,452	1,503	1,710	1,843	2,047
SK	143	139	187	154	195
TOTAL	4,300	4,712	5,213	5,359	5,641

Table G.2.7 Total full-time equivalent postgraduate student enrolment by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
Biosystems	66	172	78	2		37	494	367	97	1,312
Chemical	690			35		31	876	390	53	2,076
Civil	486	303	128	29	92	55	1,423	1,247	110	3,872
Computer	97	11			87		235	175	39	644
Electrical	379	447	183	33	66	77	2,805	1,828	111	5,929
Engineering Physics	58	117				10	70	151		406
Environmental		27			14	12	227	162	50	491
Geological		4					12			16
Industrial or Manufacturing			10			26	177	477	59	748
Materials or Metallurgical	103	93				16	187	239		638
Mechanical	498	449	109	43	65	30	2,211	1,182	147	4,733
Mining or Mineral	46	81				7	63	99		296
Software							79	355	21	456
Other	157	-24		49	248	223	936	1,616	85	3,289

Table G.2.8 Total full-time equivalent female postgraduate student enrolment by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
Biosystems	28	63	30	1		20	205	156	32	534
Chemical	243			7		10	313	141	20	735
Civil	159	82	33	8	20	21	419	357	34	1,132
Computer	28	5			15		55	37	11	150
Electrical	88	117	45	6	10	9	701	431	11	1,417
Engineering Physics	15	42				3	11	30		101
Environmental		7			5	7	105	79	26	228
Geological		1					4			6
Industrial or Manufacturing			3			7	19	143	10	181
Materials or Metallurgical	32	29				4	45	68		178
Mechanical	91	75	17	7	6	4	338	175	15	729
Mining or Mineral	4	25				2	17	31		78
Software							20	116	6	142
Other	39	-12		12	43	38	250	370	25	765

Table G.3.1 Total full-time postgraduate students by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Alberta	1,493	1,344	1,317	1,334	1,383
Calgary	898	788	998	989	1,046
Carleton	717	727	757	831	847
Concordia	1,752	1,879	2,102	2,184	2,492
Dal	520	487	489	506	518
ETS	918	1,116	1,249	1,287	1,296
Guelph	128	155	161	169	195
Lakehead	41	56	74	158	
Laurentian	31	50	37	42	44
Laval	531	531	494	504	519
Manitoba	429	452	477	488	499
McGill	969	842	846	872	1,109
McMaster	639	697	731	741	795
Moncton	15	10	18	15	25
MUN	363	423	465	547	550
NSAC		0		0	
Ottawa	810	918	904	885	860
Polytechnique	1,288	1,314	1,400	1,413	1,455
Queen's	446	471	468	456	331
Regina	182	188	231	179	216
RMC	88	92	95	86	70
Ryerson	707	551	584	600	656
Saskatchewan	342	324	425	463	521
SFU	190	194	181	177	173
Sherbrooke	492	485	540	544	486
SMU		2	7	7	4
Toronto	1,688	1,839	1,900	1,989	2,040
UBC	1,074	1,037	984	917	992
UBCO	142	164	549	202	192
UNB	221	166	163	186	148

UOIT	214	158	174	191	172
UQAC	147	94	211	196	383
UQAM		18			
UQAR	15	22	25	35	53
UQAT	23	28	29	57	64
UQTR	110	117	125	126	118
UVic	324	304	337	335	264
Waterloo	1,339	1,290	1,261	1,310	1,409
Western	574	582	708	657	757
Windsor	628	670	717	885	1,228
York	6	17	24	46	74
TOTAL	20,493	20,601	22,254	22,610	23,984

Table G.3.2 Total part-time postgraduate students by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Alberta	0	0	0	0	78
Calgary	158	33	0	261	242
Carleton	139	140	128	120	106
Concordia	87	107	136	124	89
Dal	12	40	13	29	22
ETS	364	387	365	324	323
Guelph	27	28	24	24	29
Lakehead	1	0	0	0	
Laurentian	26	0	1	10	7
Laval	41	39	42	31	33
Manitoba	43	37	31	35	33
McGill	0	48	56	55	73
McMaster	433	107	97	65	64
Moncton	0	9	6	6	0
MUN	58	76	76	72	62
NSAC		0		0	
Ottawa	101	109	131	93	79
Polytechnique	112	114	127	126	126
Queen's	50	35	34	36	20
Regina	41	38	39	44	63
RMC	17	23	25	26	28
Ryerson	150	79	72	70	68
Saskatchewan	0	0	0	0	0
SFU	14	18	27	27	46
Sherbrooke	145	0	0	221	115
SMU		0	0	1	1
Toronto	201	168	146	153	155
UBC	26	105	105	193	81
UBCO	0	0	2	2	14
UNB	41	42	45	31	17
UOIT	63	61	72	65	70
UQAC	0	5	0	8	16
UQAM		0			
UQAR	2	0	1	0	0
UQAT	0	2	2	0	0

UQTR	114	76	38	19	18
UVic	0	0	0	0	-12
Waterloo	375	304	278	277	284
Western	37	27	29	11	48
Windsor	23	28	23	20	17
York	2	3	4	13	13
TOTAL	2,904	2,286	2,175	2,591	2,431

Table G.3.3 Total full-time female postgraduate students by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Alberta	438	378	347	341	371
Calgary	246	219	268	304	320
Carleton	152	163	177	208	234
Concordia	391	440	489	529	637
Dal	88	89	108	115	124
ETS	186	270	293	320	325
Guelph	30	43	49	47	53
Lakehead	4	9	14	29	
Laurentian	3	10	8	9	13
Laval	116	116	127	133	141
Manitoba	97	108	109	117	127
McGill	206	194	197	211	319
McMaster	171	186	190	197	219
Moncton	2	2	4	3	6
MUN	89	97	98	104	95
NSAC		0		0	
Ottawa	203	252	245	233	244
Polytechnique	379	380	378	383	419
Queen's	100	104	105	109	85
Regina	53	55	52	53	68
RMC	17	15	15	16	11
Ryerson	115	117	133	156	163
Saskatchewan	89	86	107	109	113
SFU	41	45	46	49	50
Sherbrooke	83	87	88	96	91
SMU		0	0	0	0
Toronto	440	492	527	547	557
UBC	262	261	258	243	276
UBCO	23	20	68	25	37
UNB	56	34	44	43	34
UOIT	41	33	38	32	34
UQAC	40	29	66	53	81
UQAM		2			
UQAR	1	2	3	5	5
UQAT	4	4	5	11	11

UQTR	28	26	29	27	23
UVic	53	53	60	77	60
Waterloo	303	292	286	326	369
Western	146	152	190	176	250
Windsor	110	105	126	152	179
York	1	5	7	12	23
TOTAL	4,806	4,975	5,352	5,598	6,166

Table G.3.4 Total part-time female postgraduate students by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Alberta	0	0	0	0	19
Calgary	24	6	0	60	57
Carleton	24	31	30	19	20
Concordia	13	18	23	26	18
Dal	3	1	2	5	4
ETS	80	90	80	67	74
Guelph	11	12	8	8	12
Lakehead	0	0	0	0	
Laurentian	4	0	0	2	0
Laval	6	8	7	10	9
Manitoba	8	8	5	7	7
McGill	0	6	9	14	24
McMaster	70	23	17	13	10
Moncton	0	2	2	2	0
MUN	11	13	9	9	10
NSAC		0		0	
Ottawa	20	27	32	24	23
Polytechnique	30	40	43	37	37
Queen's	11	6	6	5	2
Regina	10	10	9	10	16
RMC	0	7	6	6	2
Ryerson	19	14	11	7	8
Saskatchewan	0	0	0	0	0
SFU	1	2	4	6	13
Sherbrooke	32	0	0	42	21
SMU		0	0	0	0
Toronto	47	38	28	27	28
UBC	8	28	30	46	24
UBCO	0	0	0	0	1
UNB	10	10	10	7	2
UOIT	12	8	11	9	11
UQAC	0	3	0	2	2
UQAM		0			
UQAR	1	0	0	0	0
UQAT	0	0	0	0	0
UQTR	64	44	18	6	3
UVic	0	0	0	0	-6
Waterloo	70	56	53	60	68
Western	11	6	8	2	14

Windsor	2	2	2	3	4
York	1	2	1	3	4
TOTAL	603	520	462	545	539

Table G.3.5 Total full-time postgraduate students by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta	-12	220	336	94	181	57				100	285	45		77
Calgary	90	414	119		179						170			73
Carleton			123	9	400		37			5	106		37	130
Concordia			586		857				169		432		306	142
Dal	37	31	55		77	5	12		26	16	30	7		223
ETS			94		124		71		45		87		33	843
Guelph	30			41			85				39			
Laurentian												44		
Laval		76	103		111		48			62	105	12		2
Manitoba	77		125		179				10		109			
McGill	264	113	97		294					148	189			5
McMaster	58	85	69	81	126	58			8	64	113		40	93
Moncton														25
MUN			89	85	62		14				61			240
Ottawa	33	93	156		328		68				114			68
Polytechnique	96	120	173	172	189	151			201	24	198	86		46
Queen's		52	68		78	11		12			94	16		
Regina				31			41		51				18	76
RMC		15	9		29						6			11
Ryerson	28	37	129	78	159						105			118
Saskatchewan	97	53	110		111		4				147			
SFU						91					83			
Sherbrooke		57	130		151						137			11
SMU						4								
Toronto	265	227	275		485					87	538			163
UBC	170		193		295		27	3		93	136	75		
UBCO			82		48						62			
UNB	2	33	26		30						39			19
UOIT					66						70			36
UQAC							36							347
UQAR														53
UQAT														64
UQTR		21			51				33		13			
UVic			18	11	97						151			-12
Waterloo		206	185		445						314			258
Western	74	148	208		222						106			
Windsor			115		372		29		166	30	516			
York			30	14							30			
TOTAL	1,307	1,999	3,701	616	5,746	377	471	15	708	629	4,585	285	433	3,112

Table G.3.6 Total part-time postgraduate students by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Mechanical	Industrial or Manufacturing	Materials or Metallurgical	Mining or Mineral	Software	Other
Alberta	-12	16	38	1	7					4	20	1		3
Calgary		105	23		40						66			8
Carleton			20	1	55		6			1	11			12
Concordia			33		17				2		11		13	13
Dal	1	1	4		4	1			3		0			8
ETS			53		43		16		12		19		17	163
Guelph	5			5			18				2			
Laurentian												7		
Laval			10		7		3			5	5	1		2
Manitoba	3		9		16				1		5			
McGill	13	4	14		11					6	7			18
McMaster		1	8	8	8	2			6	0	8		6	16
Moncton														
MUN			8	6	12						11			25
Ottawa	1	4	10		38		2				8			17
Polytechnique	2	4	26	7	18	1			43		6	2		17
Queen's		1	3		7	0					5	5		
Regina				14			10		16				7	16
RMC		9	2		16									1
Ryerson	2	2	14	8	19						11			13
Saskatchewan														
SFU						33					13			
Sherbrooke														115
SMU						1								
Toronto	5	8	39		53					2	44			5
UBC	12		22		17		1	4		1	7	17		
UBCO			6		4						4			
UNB		2	3		3						4			5
UOIT					13						23			34
UQAC							0							16
UQAR														
UQAT														
UQTR		1			7				8		2			
UVic														-12
Waterloo		15	40		87						54			88
Western	4	8	14		12				0		9			
Windsor			5		3		1		2	1	4			
York			6	5							2			
TOTAL	37	181	411	54	516	38	57	4	94	21	360	32	44	583

Table G.3.7 Total full-time female postgraduate students by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Mechanical	Industrial or Manufacturing	Materials or Metallurgical	Mining or Mineral	Software	Other
Alberta	-6	89	107	27	32	15				31	53	4		19
Calgary	40	135	43		51						33			18
Carleton			29	7	121		22			1	17		10	27
Concordia			164		252				32		49		107	33
Dal	20	10	21		9	3	7		7	4	4	2		38
ETS			23		20		41		10		7		7	218
Guelph	10			9			31				4			
Laurentian												13		
Laval		22	29		19		23			21	24	3		
Manitoba	30		32		45				3		17			
McGill	112	44	32		61					40	29			2
McMaster	27	26	18	17	30	10			1	24	21		10	35
Moncton														6
MUN			19	15	10		5				5			42
Ottawa	11	35	32		106		34				10			17
Polytechnique	40	50	62	36	37	30			83	6	41	28		7
Queen's		21	19		14	1		4			22	3		
Regina				8			23		9				5	23
RMC		4	2		1						3			1
Ryerson	13	13	38	16	38						21			24
Saskatchewan	32	20	34		11		1				15			
SFU						34					16			
Sherbrooke		19	29		20						23			
SMU														
Toronto	114	89	90		104					15	122			22
UBC	62		61		69		7	1		29	23	24		
UBCO			15		15						7			
UNB	1	7	8		6						7			5
UOIT					14						8			12
UQAC							11							70
UQAR														5
UQAT														11
UQTR		6			8				8		1			
UVic			4	5	31						27			-6
Waterloo		61	62		100						49			96
Western	28	62	84		54						23			
Windsor			17		106		14		17	4	20			
York			11	3							8			
TOTAL	533	711	1,085	142	1,383	93	219	5	170	176	708	77	139	726

Table G.3.8 Total part-time female postgraduate enrolment by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Mechanical	Industrial or Manufacturing	Materials or Metallurgical	Mining or Mineral	Software	Other
Alberta	-6	9	7		3					1	5			
Calgary		31	8		11						6			1
Carleton			2	1	8		4			1	4			
Concordia			8		5						1		1	3
Dal					1				1					2
ETS			13		8		9		2				1	41
Guelph	2						9							
Laurentian														
Laval			3		4		1			1				
Manitoba	1		4		2						1			
McGill	8	1	4		3					2	1			4
McMaster		0	3	1	0				1		2		1	2
Moncton														
MUN			2								4			3
Ottawa	1	2	1		12		1				1			6
Polytechnique	1	0	9	2	4				17		1	1		1
Queen's					0						1	1		
Regina				6			4		1				2	4
RMC		2												
Ryerson	0		2	2	1						2			1
Saskatchewan														
SFU						11					2			
Sherbrooke														21
SMU														
Toronto	1	2	10		6					1	8			0
UBC	6		6		5		1	2		1	1	2		
UBCO			1								0			
UNB		0	0		0						0			1
UOIT					2						2			6
UQAC							0							2
UQAR														
UQAT														
UQTR									3					
UVic														-6
Waterloo		2	13		10						8			34
Western	1	2	8		1						1			
Windsor			2		0				2					
York			1	2							1			

TOTAL	15	52	108	14	88	11	29	2	27	7	52	4	5	127

Post-graduate Degrees Awarded (GD)

Table GD.1.1 Total master's degrees awarded by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	186	153	159	160	270
Chemical	424	469	463	492	468
Civil	879	902	874	939	1,054
Computer	183	168	185	171	165
Electrical	1,441	1,619	1,539	1,796	1,801
Engineering Physics	75	64	61	67	72
Environmental	129	152	180	200	142
Geological	8	9	11	14	18
Industrial or Manufacturing	236	237	268	204	218
Materials or Metallurgical	97	119	93	90	96
Mechanical	834	950	1,062	1,255	1,296
Mining or Mineral	88	56	83	83	70
Software	88	124	149	173	157
Other	828	945	1,126	895	1,017
Year One/Two Common Year		11	0	0	
TOTAL	5,496	5,978	6,253	6,539	6,844

Table GD.1.2 Total doctoral degrees awarded by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	60	50	66	62	102
Chemical	169	185	174	200	219
Civil	187	171	213	259	234
Computer	22	28	32	32	34
Electrical	389	384	368	387	440
Engineering Physics	43	48	36	33	30
Environmental	14	18	20	19	24
Geological	0	1	1	1	2
Industrial or Manufacturing	24	27	31	34	40
Materials or Metallurgical	48	71	49	37	71
Mechanical	236	260	264	290	352
Mining or Mineral	29	14	18	27	16
Software	3	3	3	2	3
Other	106	124	146	163	146
Year One/Two Common Year		5	0	0	
TOTAL	1,330	1,389	1,421	1,546	1,713

Table GD.1.3 Total master's degrees awarded to women by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	74	66	63	69	111
Chemical	145	180	167	187	154
Civil	214	247	235	299	283
Computer	31	35	45	30	26
Electrical	305	354	363	432	495
Engineering Physics	16	14	14	16	14

Environmental	48	69	77	101	61
Geological	2	4	4	5	8
Industrial or Manufacturing	104	71	99	49	66
Materials or Metallurgical	30	39	26	30	21
Mechanical	105	132	146	190	185
Mining or Mineral	16	17	17	17	18
Software	15	23	40	36	45
Other	170	195	238	204	253
Year One/Two Common Year		7	0	0	
TOTAL	1,275	1,453	1,534	1,665	1,740

Table GD.1.4 Total doctoral degrees awarded to women by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	25	16	21	21	36
Chemical	39	65	61	72	71
Civil	32	31	49	63	67
Computer	6	7	3	11	7
Electrical	45	54	60	62	83
Engineering Physics	4	8	12	11	4
Environmental	3	4	4	7	12
Geological	0	0	0	0	0
Industrial or Manufacturing	3	7	9	8	7
Materials or Metallurgical	10	21	15	13	21
Mechanical	34	49	49	53	56
Mining or Mineral	5	1	3	8	8
Software	2	2	0	0	0
Other	12	23	28	37	29
Year One/Two Common Year		0	0	0	
TOTAL	220	288	314	366	401

Table GD.1.5 Total master's degrees awarded to foreign students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	61	61	50	55	78
Chemical	156	248	264	263	278
Civil	269	328	354	413	447
Computer	74	99	95	105	73
Electrical	756	1,031	966	1,237	1,312
Engineering Physics	24	20	22	30	24
Environmental	69	78	107	118	75
Geological	2	2	2	6	5
Industrial or Manufacturing	83	114	120	108	160
Materials or Metallurgical	48	52	39	50	46
Mechanical	314	436	530	748	776
Mining or Mineral	38	37	47	39	36
Software	51	75	118	136	106
Other	426	551	723	601	643
Year One/Two Common Year		9	0	0	
TOTAL	2,371	3,141	3,437	3,909	4,059

Table GD.1.6 Total doctoral degrees awarded to foreign students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
Biosystems	13	11	15	17	35
Chemical	56	56	65	93	103
Civil	35	48	84	88	96
Computer	6	10	12	12	20
Electrical	110	122	137	180	252
Engineering Physics	11	18	13	11	13
Environmental	4	9	11	4	14
Geological	0	0	0	0	0
Industrial or Manufacturing	5	10	12	12	17
Materials or Metallurgical	20	28	20	22	43
Mechanical	60	96	97	129	192
Mining or Mineral	9	5	5	11	6
Software	2	2	1	0	2
Other	31	44	72	63	68
Year One/Two Common Year		4	0	0	
TOTAL	362	463	544	642	861

Table GD.2.1 Total master's degrees awarded by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	460	494	433	407	410
BC	340	317	345	380	377
MB	62	74	89	76	78
NB	50	67	24	54	64
NL	103	120	131	134	48
NS	173	217	341	133	183
ON	2,652	2,905	3,057	3,330	3,494
PE					0
QC	1,537	1,644	1,689	1,885	2,054
SK	119	140	144	140	136
TOTAL	5,496	5,978	6,253	6,539	6,844

Table GD.2.2 Total doctoral degrees awarded by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	203	221	153	205	188
BC	126	111	116	117	122
MB	28	29	27	52	41
NB	18	16	11	11	12
NL	12	14	19	16	17
NS	16	18	19	26	24
ON	552	520	615	651	796
PE					0
QC	354	425	425	438	484
SK	21	35	36	30	29
TOTAL	1,330	1,389	1,421	1,546	1,713

Table GD.2.3 Total master's degrees awarded to women by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	106	145	116	139	122
BC	87	75	70	79	96
MB	14	14	21	21	20
NB	12	17	5	9	19
NL	28	28	34	36	7
NS	27	26	40	28	45
ON	578	732	755	892	872
PE					0
QC	389	370	451	423	524
SK	34	46	42	38	35
TOTAL	1,275	1,453	1,534	1,665	1,740

Table GD.2.4 Total doctoral degrees awarded to women by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	31	44	35	46	41
BC	27	25	20	24	21
MB	4	6	3	6	11
NB	3	4	3	4	5
NL	2	3	0	3	4
NS	5	4	4	12	3
ON	90	103	143	152	183
PE					0
QC	51	90	100	112	121
SK	7	9	6	7	12
TOTAL	220	288	314	366	401

Table GD.2.5 Total master's degrees awarded to foreign students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	215	279	242	231	220
BC	164	142	177	235	211
MB	28	48	46	41	43
NB	31	35	20	31	32
NL	87	103	113	112	38
NS	137	173	284	96	139
ON	946	1,398	1,532	1,902	2,030
PE					0
QC	676	862	908	1,153	1,254
SK	87	101	115	108	92
TOTAL	2,371	3,141	3,437	3,909	4,059

Table GD.2.6 Total doctoral degrees awarded to foreign students by province: 2013 to 2017

Province	2013	2014	2015	2016	2017
AB	66	84	77	100	104
BC	46	57	64	58	58

MB	5	9	12	23	20
NB	12	7	7	6	4
NL	3	8	5	4	13
NS	3	5	5	7	9
ON	106	134	186	221	349
PE					0
QC	110	133	167	214	288
SK	11	26	21	9	16
TOTAL	362	463	544	642	861

Table GD.2.7 Total master's degrees awarded by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
Biosystems	18	46	5			6	100	82	13	270
Chemical	113			21		14	261	51	8	468
Civil	86	92	28	9	3	14	444	364	14	1,054
Computer	8	2			7		85	50	13	165
Electrical	49	98	23	13	6	9	1,079	502	22	1,801
Engineering Physics	7	23				6	18	18		72
Environmental		1			7	5	73	44	12	142
Geological		11					7			18
Industrial or Manufacturing			2			7	64	131	14	218
Materials or Metallurgical	13	10				2	45	26		96
Mechanical	82	72	20	10	3	16	824	256	13	1,296
Mining or Mineral	11	22				1	22	14		70
Software							9	141	7	157
Other	23			11	22	103	463	375	20	1,017
TOTAL	410	377	78	64	48	183	3,494	2,054	136	6,844

Table GD.2.8 Total doctoral degrees awarded by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
Biosystems	9	12	1			3	43	30	4	102
Chemical	34			2		1	122	55	5	219
Civil	35	15	5	1	4	3	117	50	4	234
Computer	8				4		7	14	1	34
Electrical	37	38	19	2	3	8	237	95	1	440
Engineering Physics	6	6				2	5	11		30
Environmental							13	5	6	24
Geological		2								2
Industrial or Manufacturing			15			2	2	20	1	40
Materials or Metallurgical	13	7				2	16	33		71
Mechanical	23	37	1	2		3	190	93	3	352
Mining or Mineral	5	5					5	1		16
Software							2	1		3
Other	18			5	6		37	76	4	146
TOTAL	188	122	41	12	17	24	796	484	29	1,713

Table GD.3.1 Total master's degrees awarded by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Acadia		0			
Alberta	281	279	239	198	207

BCIT	0	0	0	0	0
Calgary	179	215	194	209	203
Carleton	193	230	251	258	236
Concordia	572	626	667	783	782
Conestoga	0	0	0	0	0
Dal	173	205	341	131	178
ETS	259	293	385	391	367
Guelph	44	44	46	50	47
Lakehead	16	0	8	18	
Laurentian	61	0	11	8	10
Laval	70	70	60	86	63
Manitoba	62	74	89	76	78
McGill	157	124	153	160	232
McMaster	255	230	250	218	225
Moncton	2	4	0	5	3
MUN	103	120	131	134	48
NSAC		11	0	0	
Ottawa	241	465	414	532	426
Polytechnique	281	334	222	304	360
Queen's	113	106	118	151	136
Regina	60	76	83	80	66
RMC	22	19	16	24	4
Ryerson	295	189	176	162	221
Saskatchewan	59	64	61	60	70
SFU	38	28	31	31	34
Sherbrooke	65	90	91	79	139
SMU		1		2	5
Toronto	496	540	631	669	676
UBC	251	237	237	248	246
UBCO	20	24	37	41	33
UNB	48	63	24	49	61
UNBC	0	0	0	0	0
UOIT	30	36	39	79	61
UPEI					0
UQAC	8	12	8	33	63
UQAM	0	5			
UQAR	8	2	5	8	12
UQAT	19	10	5	0	12
UQO	0	0	0	0	
UQTR	98	78	93	41	24
UVic	31	28	40	60	64
Waterloo	502	486	480	416	450
Western	131	187	217	286	457
Windsor	253	373	396	451	526
York		0	4	8	19
TOTAL	5,496	5,978	6,253	6,539	6,844

Table GD.3.2 Total doctoral degrees awarded by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017

Acadia		0			
Alberta	111	126	83	120	117
BCIT	0	0	0	0	0
Calgary	92	95	70	85	71
Carleton	36	30	36	41	42
Concordia	60	53	56	74	54
Conestoga	0	0	0	0	0
Dal	16	13	19	26	24
ETS	35	44	58	62	56
Guelph	9	7	12	10	12
Lakehead	0	0	0	0	
Laurentian	31	0	3	4	5
Laval	33	33	40	35	53
Manitoba	28	29	27	52	41
McGill	100	120	106	94	113
McMaster	40	36	65	69	79
Moncton	0	0	0	0	0
MUN	12	14	19	16	17
NSAC		5	0	0	
Ottawa	21	39	25	44	62
Polytechnique	88	117	95	107	122
Queen's	46	36	48	40	36
Regina	7	17	10	13	10
RMC	4	6	3	7	5
Ryerson	42	39	44	43	46
Saskatchewan	14	18	26	17	19
SFU	12	12	24	23	14
Sherbrooke	27	42	48	36	56
SMU		0		0	0
Toronto	106	110	152	150	178
UBC	93	67	50	42	57
UBCO	7	7	15	17	21
UNB	18	16	11	11	12
UNBC	0	0	0	0	0
UOIT	10	16	14	13	16
UPEI					0
UQAC	5	9	14	19	16
UQAM	0	0			
UQAR	0	0	0	0	0
UQAT	0	0	0	0	0
UQO	0	0	0	0	
UQTR	6	7	8	11	14
UVic	14	25	27	35	30
Waterloo	134	125	150	144	127
Western	53	50	40	63	168
Windsor	20	26	23	23	20
York		0	0	0	0
TOTAL	1,330	1,389	1,421	1,546	1,713

Table GD.3.3 Total master's degrees awarded to women by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Acadia		0			
Alberta	63	81	66	69	55
BCIT	0	0	0	0	0
Calgary	43	64	50	70	67
Carleton	31	51	56	64	50
Concordia	129	124	179	167	186
Conestoga	0	0	0	0	0
Dal	27	19	40	28	45
ETS	39	54	85	89	99
Guelph	11	11	16	16	18
Lakehead	2	0	1	3	
Laurentian	8	0	1	2	2
Laval	20	20	17	28	15
Manitoba	14	14	21	21	20
McGill	53	31	32	36	74
McMaster	67	90	72	56	58
Moncton	0	0	0	1	0
MUN	28	28	34	36	7
NSAC		7	0	0	
Ottawa	57	125	123	147	110
Polytechnique	74	87	68	63	103
Queen's	32	30	26	39	36
Regina	13	26	26	20	14
RMC	4	2	1	4	0
Ryerson	39	40	41	34	49
Saskatchewan	21	20	16	18	21
SFU	8	5	6	8	10
Sherbrooke	12	10	12	14	26
SMU		0		0	0
Toronto	125	146	164	210	173
UBC	62	60	49	57	67
UBCO	11	6	6	6	4
UNB	12	17	5	8	19
UNBC	0	0	0	0	0
UOIT	5	5	9	19	10
UPEI					0
UQAC	0	4	1	6	12
UQAM	0	0			
UQAR	0	0	0	1	2
UQAT	3	0	0	0	1
UQO	0	0	0	0	
UQTR	59	40	57	19	6
UVic	6	4	9	8	15
Waterloo	123	112	129	98	141
Western	30	53	64	111	144
Windsor	44	67	50	88	76
York		0	2	1	5

TOTAL	1,275	1,453	1,534	1,665	1,740

Table GD.3.4 Total doctoral degrees awarded to women by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
Acadia		0			
Alberta	16	22	22	30	25
BCIT	0	0	0	0	0
Calgary	15	22	13	16	16
Carleton	3	1	6	13	7
Concordia	9	12	8	17	9
Conestoga	0	0	0	0	0
Dal	5	4	4	12	3
ETS	3	7	12	19	16
Guelph	1	1	1	4	2
Lakehead	0	0	0	0	
Laurentian	3	0	1	0	2
Laval	0	0	9	6	13
Manitoba	4	6	3	6	11
McGill	14	30	26	17	30
McMaster	9	8	13	11	20
Moncton	0	0	0	0	0
MUN	2	3	0	3	4
NSAC		0	0	0	
Ottawa	4	5	3	11	18
Polytechnique	20	32	25	32	39
Queen's	6	6	11	12	3
Regina	3	5	3	3	2
RMC	0	2	2	2	1
Ryerson	8	9	11	6	9
Saskatchewan	4	4	3	4	10
SFU	0	4	5	5	4
Sherbrooke	3	7	14	9	8
SMU		0		0	0
Toronto	20	23	45	38	47
UBC	24	17	9	14	11
UBCO	1	0	2	1	2
UNB	3	4	3	4	5
UNBC	0	0	0	0	0
UOIT	0	5	2	2	3
UPEI					0
UQAC	1	1	5	6	4
UQAM	0	0			
UQAR	0	0	0	0	0
UQAT	0	0	0	0	0
UQO	0	0	0	0	
UQTR	1	1	1	6	2
UVic	2	4	4	4	4
Waterloo	22	26	37	30	25
Western	8	10	8	19	41

Windsor	6	7	3	4	5
York		0	0	0	0
TOTAL	220	288	314	366	401

Table GD.3.5 Total master's degrees awarded by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		36	62	8	19	7				13	36	11		15
BCIT														
Calgary	18	17	24		30						46			8
Carleton	5		36	4	101		12			2	23			53
Concordia		178		310				39		111		117	27	
Conestoga														
Dal	6	14	14		9	1	5		7	2	16	1		103
ETS			40		36		29		15		33		24	190
Guelph	6			8			27				6			
Laurentian											10			
Laval	4	2	19		13		7			6	11	1		
Manitoba	5		28		23				2		20			
McGill	63	22	36		47					17	36			11
McMaster	11	12	13	15	35	11			2	9	25		9	83
Moncton														3
MUN			3	7	6		7				3			22
Ottawa	8	37	35		147		24				61			114
Polytechnique	15	21	54	50	54	18			70	3	33	13		29
Queen's		18	17		34	7		7			41	12		
Regina				13			12		14				7	20
RMC		2	1											1
Ryerson	4	9	48	50	53						30			27
Saskatchewan	13	8	14		22						13			
SFU						22					12			
Sherbrooke	3	37		31						29			39	
SMU						5								
Toronto	38	66	99		178					27	219			49
UBC	46		84		43	1	1	11		10	28	22		
UBCO			8		16						9			
UNB		21	9		13						10			8
UNBC														
UOIT					13						26			22
UPEI														
UQAC							8							55
UQAR														12
UQAT														12
UQTR		3			11				7		3			
UVic				2	39						23			
Waterloo		52	49		166						69			114

Western	28	65	98		166						100			
Windsor			44		186		10		62	7	217			
York			4	8							7			
TOTAL	270	468	1,054	165	1,801	72	142	18	218	96	1,296	70	157	1,017

Table GD.3.6 Total doctoral degrees awarded by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		16	28	8	21	6				13	11	5		9
BCIT														
Calgary	9	18	7		16						12			9
Carleton			6		29		3				3			1
Concordia		11		17				6		16		1	3	
Conestoga														
Dal	3	1	3		8	2			2	2	3			
ETS														56
Guelph	5			1			5				1			
Laurentian											5			
Laval		9	6		7		2			12	17			
Manitoba	1		5		19				15		1			
McGill	15	8	13		39					19	19			
McMaster	6	17	7	6	17	5				7	12		2	
Moncton														
MUN			4	4	3									6
Ottawa		7	14		29		3				9			
Polytechnique	15	19	8	14	16	11			11	2	21	1		4
Queen's		9	7		12						8			
Regina				1			4		1					4
RMC		2			2						1			
Ryerson		3	5		15						18			5
Saskatchewan	4	5	4		1		2				3			
SFU						6					8			
Sherbrooke	13	12		11						20				
SMU														
Toronto	20	22	28		58					6	35			9
UBC	12		5		18			2		7	8	5		
UBCO			10		3						8			
UNB		2	1		2						2			5
UNBC														
UOIT					7						6			3
UPEI														
UQAC							3							13
UQAR														

UQAT														
UQTR		6			5				3					
UVic					17						13			
Waterloo		25	25		33						25			19
Western	12	37	22		30						67			
Windsor			3		5		2		2	3	5			
York														
TOTAL	102	219	234	34	440	30	24	2	40	71	352	16	3	146

Faculty Members by institution (F)

Table F.1.1 - Faculty Members by Institution: 2017

Institution	Male Professors	Female Professors	Male Associate Professors	Female Associate Professors	Male Assistant Professors	Female Assistant Professors	Male Instructors/Lecturers	Female Instructors/Lecturers	Total Full Time Equivalent
Alberta	108	8	37	9	38	9	4.3	13.8	227.1
BCIT	47	7.25	0	0	0	0	0	0	54.25
Calgary	77	10	30	8	23	11			
Cape Breton	2						4	1	
Carleton	55	5	58	12.5	23	4	4	1	162.5
Concordia	83.5	11	41	17	29	4	19	5	209.5
Conestoga	12	2	0	0	0	0	5.5	0	19.5
Dal	43.33	5.33	20.5	6	6	3	15.5	4.4	104.06
ETS	70	12	98.5	17	14	6	163	30	410.5
Guelph	14	3	15.21	4	8.33	3	0	0	47.54
Laurentian	7.5	1	8.5		2		2	1	
Manitoba	35.5	3	15	5	12.09	4.17	5.94	4.22	84.92
McGill	48	6	53	7	13	6	7.7	1.8	142.5
McMaster	81.75	5	26.9	8	14	9	9	2	155.65
Moncton	13	0	3	2	4	1	0	0	23
MUN	25	3	19.49	5	18.6	1.6	5	3	80.69
NSAC	2	0	6	1	1	0	4.67	0.67	15.34
Ottawa	53	10	25	10	15	4	7	1	125
Polytechnique	125	18	46	8	31	4	17	5	254
Queen's	60.2	11.5	37	0.4	8	3.8	6.2	0	127.1
Regina	19	3	7	1	4	2	16	1	53
RMC	24	1	21	2.5	4.5	1.5	19	0	73.5
Ryerson	77	9	29	5	8	4	1	0	133
Saskatchewan	41	3	22		14.05	4	1	2	
SFU	22.5	3	5	3	2	1	8	2	46.5
Sherbrooke	63	5	20	2	10	1	25.9	3.3	130.2
SMU	0	0	1	0	5	0	0	0	6
Toronto	127.47	21	42	14	17	12	18	9	260.47

UBC	95	16	21	3	16	9	25.35	9.34	194.69
UBCO	9	2	12	2	13	1	7	5	51
UNB	35.33	5	12	0.5	6	1	5	0	64.83
UNBC	3.3		1						
UOIT	19	0.75	18	4.5	10	1	10	0	63.25
UPEI	1	0	4	1	6	1.5			
UQAC	14	3	10	2	0	1	16.5	2	48.5
UQAR	10	0	0	0	0	0			
UQAT	7	0	3		1		1	1	
UQO	11	1	3	3	2	0			
UQTR	19	1	9		1		1		
UVic	33	6	18	3	7	2	1	0	70
Waterloo	116.78	17	73.99	14.51	29	10	26	8.5	295.78
Western	49	5	25	6	9	5	9	0	108
Windsor	41.6	3	15.5	4	4	3	5	2	78.1
York	14.5	2	21	3	25	2	3	0	70.5
TOTAL	1,815.26	227.83	933.59	193.91	453.57	135.57	478.56	119.03	3,990.47

Co-op, Internship, and Professional Experience Programs (C)

Table C.1.1 - Co-op, Internships and Professional Experience Programs: 2017

Institution	Type of Program	Mandatory/Optional
Alberta	Co-op	Optional
Calgary	Internship	Optional
Cape Breton	Co-op	Optional
Carleton	Co-op	Optional
Concordia	Co-op & Internship	Optional
Conestoga	Co-op	Mandatory
ETS	Co-op	Mandatory
Guelph	Co-op	Mandatory
Laurentian	Co-op & Internship	Optional
Manitoba	Co-op	Optional
McGill	Co-op & Internship	Varies
McMaster	Co-op	Optional
Moncton	Co-op	Optional
MUN	Co-op	Mandatory
Ottawa	Co-op	Varies
Queen's	Internship	Optional
Ryerson	Co-op & Internship	Varies
Saskatchewan	Internship	Optional
SFU	Co-op	Varies
Sherbrooke	Co-op	Optional
Toronto	Internship	Optional
UBC	Co-op	Optional
UBCO	Co-op	Optional
UNB	Co-op	Optional
UNBC	Co-op	Optional
UQAC	Internship	Optional
UQAR	Co-op	Optional
UQAT	Co-op	Optional
UQTR	Internship	Mandatory
UVic	Co-op	Mandatory
Waterloo	Co-op	Mandatory
Western	Co-op & Internship	Optional
Windsor	Co-op	Optional
York	Co-op	Optional

Appendix B

Accredited engineering programs by institution

a. This listing of accredited programs includes only engineering programs that lead to a bachelor's degree.
b. Institutions listed have voluntarily requested that specific engineering programs be evaluated by the Accreditation Board. The terminology requested by the institution is shown.
c. A single date which follows the name of a program indicates the year of the first graduating class for which accreditation applies. Accreditation applies to subsequent years and is still enforced.
d. A double date following the name of a program indicates the period (inclusive of both years) for which the program was accredited. This may occur if the institution has discontinued the program under that specific name or has not requested renewal of accreditation or if the Accreditation Board has denied such renewal.
e. The appearance of a third date indicates that accreditation has been renewed from that particular year on, after a time interval.

ACADIA, UNIVERSITY

Wolfville, Nova Scotia

Ivan Curry School of Engineering

»Year One – Common 1980-

ALBERTA, UNIVERSITY OF

Edmonton, Alberta

Faculty of Engineering

»Agricultural Engineering 1983-1995
»Chemical Engineering 1965-
»Civil Engineering 1965-
»Computer Engineering 1983-
»Electrical Engineering 1965-
»Engineering Physics 1988-
»Materials Engineering 1999-
»Mechanical Engineering 1965-
»Metallurgical Engineering 1965-2000
»Mineral Engineering 1976-1982
»Mineral Process Engineering 1983-1991
»Mining Engineering 1965-1975, 1983-
»Petroleum Engineering 1978-
»Year One – Common 1980-

BRITISH COLUMBIA INSTITUE OF TECHNOLOGY

Burnaby, British Columbia

»Civil Engineering 2010-
»Electrical Engineering 2011-
»Mechanical Engineering 2014-

BRITISH COLUMBIA, THE UNIVERSITY OF

Vancouver, British Columbia

Faculty of Applied Science

»Agricultural Engineering 1965-1978
»Bio-Resource Engineering 1979-2001
»Chemical and Biological Engineering 2003-

NOVA SCOTIA TECHNICAL COLLEGE

(See Dalhousie University. Nova Scotia Technical College offered accredited engineering programs 1907-1980)

NOVA SCOTIA, TECHNICAL UNIVERSITY OF

(See Dalhousie University.
?Technical University of Nova Scotia offered accredited engineering programs 1981-1997)

ONTARIO INSTITUTE OF TECHNOLOGY, UNIVERSITY OF

Oshawa, Ontario

Faculty of Engineering and Applied Science

»Automotive Engineering 2009-
»Electrical Engineering 2009-
»Manufacturing Engineering 2007-
»Mechanical Engineering 2008-
»Nuclear Engineering 2007-
»Software Engineering 2009-

OTTAWA, UNIVERSITY OF

Ottawa, Ontario

Faculty of Engineering

»Biomedical Mechanical Engineering 2009-
»Chemical Engineering 1965-
»Civil Engineering 1971-
»Computer Engineering 1990-
»Electrical Engineering 1965-
»Mechanical Engineering 1971-
»Software Engineering 2001-

PEI, UNIVERSITY OF

Charlottetown, Prince Edward Island

Faculty of Sustainable Design Engineering

»Science Engineering (Sustainable Design) 2017-
»Year One – Common 1985-

POLYTECHNIQUE, ÉCOLE

»Chemical Engineering 1965-
»Civil Engineering 1965-
»Computer Engineering 2000-
»Electrical Engineering 1965-
»Engineering Physics 1965-
»Environmental Engineering 2007-
»Geological Engineering 1965-
»Integrated Engineering 2003-
»Materials Engineering 2006-
»Mechanical Engineering 1965-
»Metallurgical Engineering 1965-1987
»Metals and Materials Engineering 1988-2005
»Mineral Engineering 1965-1979
»Mining and Mineral Process Engineering 1980-2005
»Mining Engineering 2004-
»Year One – Common 1980-

BRITISH COLUMBIA-OKANAGAN, THE UNIVERSITY OF

Kelowna, British Columbia

Faculty of Applied Science

»Civil Engineering 2010-
»Electrical Engineering 2010-
»Mechanical Engineering 2010-
»Year One – Common 2010-

CALGARY, THE UNIVERSITY OF

Calgary, Alberta

Schulich School of Engineering

»Chemical Engineering 1969-
»Civil Engineering 1969-
»Computer Engineering 2002-2016
»Electrical Engineering 1969-
»Energy Engineering 2017-
»Geomatics Engineering 1996-
»Manufacturing Engineering 1997-
»Mechanical Engineering 1969-
»Oil and Gas Engineering 2001-
»Software Engineering 2002-
»Surveying Engineering 1982-1997
»Year One – Common 1980-

CAPE BRETON, UNIVERSITY COLLEGE OF

Sydney, Nova Scotia

»Year One – Common 1980-

CARLETON UNIVERSITY

Ottawa, Ontario

Faculty of Engineering and Design

Montréal, Québec

(affiliated with l'Université de Montréal)

»Génie aérospatial 2012-
»Génie biomedical 2012-
»Génie chimique 1965-
»Génie civil 1965-
»Génie des matériaux 1990-2012
»Génie des mines 1991-
»Génie électrique 1965-
»Génie géologique 1965-
»Génie industriel 1973-
»Génie informatique 1989-
»Génie logiciel 2005-
»Génie mécanique 1965-
»Génie métallurgique 1965-1989
»Génie minier 1965-1991
»Génie physique 1965-
»Première année- Tronc commun 1980-

QUÉBEC À CHICOUTIMI, UNIVERSITÉ DU

Chicoutimi, Québec

Département des sciences appliquées

»Génie civil 2012-
»Génie électrique 2004-
»Génie géologique 1983-
»Génie informatique 1992-
»Génie mécanique 2004-
»Génie unifié 1981-2009
»Ingénierie de l'aluminium 2008-2012

QUÉBEC À MONTRÉAL, UNIVERSITÉ DU

Montréal, Québec

Faculté des sciences

»Génie microélectronique 2007-

QUÉBEC À RIMOUSKI, UNIVERSITÉ DU

Rimouski, Québec

Module de génie

»Génie des systèmes électromécaniques 1998-
»Génie électrique 2009-
»Génie mécanique 2009-

QUÉBEC À TROIS-RIVIÈRES, UNIVERSITÉ DU

Trois-Rivières, Québec

École d'ingénierie

»Génie chimique 1990-
»Génie électrique 1978-
»Génie industriel 1980-

»Aerospace Engineering 1992-

»Architectural Conservation and Sustainability 2015-

»Biomedical and Electrical 2010-

»Biomedical and Mechanical 2012-

»Civil Engineering 1965-

»Communications Engineering 2002-

»Computer Systems Engineering 1984-

»Electrical Engineering 1965-

»Engineering Physics 2003-

»Environmental Engineering 1996-

»Mechanical Engineering 1965-

»Software Engineering 2003-

»Sustainable & Renewable Energy 2012-

»Year One - Common 1998-

CONCORDIA UNIVERSITY

Montréal, Québec

(formerly Sir George Williams University, 1959-1974)

Faculty of Engineering and Computer Science

»Building Engineering 1982-

»Civil Engineering 1969-

»Computer Engineering 1983-

»Electrical Engineering 1969-

»Industrial Engineering 1995-

»Mechanical Engineering 1969-

»Software Engineering 2002-

CONESTOGA COLLEGE

Kitchener, Ontario

School of Engineering and Information Technology

»Electronic Systems Engineering 2014-

»Mechanical Systems Engineering 2010-

DALHOUSIE UNIVERSITY

Halifax, Nova Scotia

(formerly Dal Tech, 1997-2000 and Technical University of Nova Scotia, 1981-1997
and Nova Scotia Technical College, 1907-1980)

Faculty of Engineering

»Agricultural Engineering 1974-2000

»Biological Engineering 1997-

»Chemical Engineering 1965-

»Civil Engineering 1965-

»Computer Engineering 2006-

»Core Program 1980-

»Electrical Engineering 1965-

»Engineering Physics 1987-1991

»Génie mécanique 2000-

»Génie mécanique manufacturier 1987-1999

QUÉBEC EN ABITBI-TÉMISCAMINGUE, UNIVERSITÉ DU

Rouyn-Noranda, Québec

Unité d'enseignement et de recherche en sciences appliquées

»Génie électromécanique 2000-

»Génie mécanique 2010-

QUÉBEC EN OUTAOUAIS, UNIVERSITÉ DU

Gatineau, Québec

Module de l'ingénierie

»Génie informatique 2002-

QUEEN'S UNIVERSITY

Kingston, Ontario

Faculty of Applied Science

»Chemical Engineering 1965-

»Civil Engineering 1965-

»Computer Engineering 2002-

»Electrical Engineering 1965-

»Engineering Chemistry 1979-

»Engineering Physics 1965-

»Geological Engineering 1975-

»Materials and Metallurgical Engineering 1992-2002

»Mathematics and Engineering 1974-

»Mechanical Engineering 1965-

»Metallurgical Engineering 1965-1991

»Mining Engineering 1965-

»Year One – Common 1980-

REGINA, UNIVERSITY OF

Regina, Saskatchewan

Faculty of Engineering and Applied Science

»Electronic Information Systems Engineering 1986-1994

»Electronic Systems Engineering 1995-

»Environmental Systems Engineering 1997-

»Industrial Systems Engineering 1984-

»Petroleum Systems Engineering 2003-

»Regional Environmental Systems Engineering 1990-1997

»Regional Systems Engineering 1984-1989

»Software Systems Engineering 2007-

»Systems Engineering 1981-1983

»Year One – Common 1980-

ROYAL MILITARY COLLEGE OF CANADA

»Environmental Engineering 2006-
»Industrial Engineering 1969-
»Materials Engineering 2005-
»Mechanical Engineering 1965-
»Metallurgical Engineering 1965-1977, 1981-2005
»Mineral Resources Engineering 2007-
»Mining Engineering 1965-2006

ÉCOLE DE TECHNOLOGIE SUPÉRIEURE

Montréal, Québec

(affiliated with l'Université du Québec)

»Génie de la construction 1993-
»Génie de la production automatisée 1990-
»Génie des opérations et de la logistique 2008-
»Génie des technologies de l'information 2006-
»Génie électrique 1990-
»Génie et gestion de la construction 1990-1996
»Génie logiciel 2004-
»Génie mécanique 1990-

GUELPH, UNIVERSITY OF

Guelph, Ontario

School of Engineering

»Agricultural Engineering 1973-1995
»Biological Engineering 1973-
»Biomedical Engineering 2014-
»Computer Engineering 2014-
»Engineering Systems and Computing 1994-
»Environmental Engineering 1993-
»Food Engineering 1993-2000
»Mechanical Engineering 2013-
»Water Resources Engineering 1973-
»Year One – Common 1997-

LAKEHEAD UNIVERSITY

Thunder Bay, Ontario

Faculty of Engineering

»Chemical Engineering 1974-
»Civil Engineering 1974-
»Electrical Engineering 1974-
»Mechanical Engineering 1974-
»Software Engineering 2002-
»Year One – Common 1998-

LAURENTIAN UNIVERSITY

Sudbury, Ontario

School of Engineering

»Chemical Engineering 2006-
»Extractive Metallurgical Engineering 1987-2006

Kingston, Ontario

Faculty of Engineering

»Aeronautical Engineering 2009-
»Chemical and Materials Engineering 1992-2001
»Chemical Engineering 1965-1981, 2001-
»Civil Engineering 1965-
»Computer Engineering 1983-
»Electrical Engineering 1965-
»Engineering and Management 1972-1995
»Engineering Physics 1975-1995
»Fuels and Materials Engineering 1982-1991
»Mechanical Engineering 1965-
»Year One – Common 1980-

RYERSON POLYTECHNICAL INSTITUTE

(see Ryerson University)

RPI offered accredited engineering programs in 1992.

RYERSON POLYTECHNICAL UNIVERSITY (RPU)

(see Ryerson University)

RPU offered accredited engineering programs from 1992 to 2002.

RYERSON UNIVERSITY

Toronto, Ontario

Faculty of Engineering, Architecture and Science

»Aerospace Engineering 1992-
»Biomedical Engineering 2012-
»Chemical Engineering 1992-
»Civil Engineering 1992-
»Computer Engineering 2006-
»Electrical Engineering 1992-
»Industrial Engineering 1992-
»Mechanical Engineering 1992-
»Year One – Common 1992-

SAINT MARY'S UNIVERSITY

Halifax, Nova Scotia

Division of Engineering

»Engineering Science 1991-
»Year One – Common 1980-

SASKATCHEWAN, UNIVERSITY OF

Saskatoon, Saskatchewan

College of Engineering

»Agricultural and Bioresource Engineering 1992-
»Agricultural Engineering 1965-1992
»Chemical Engineering 1965-

»Extractive Metallurgy 1985-1986
»Mechanical Engineering 2011-
»Mineral Resources Engineering 1987-
»Mining Engineering 1987-
»Year One – Common 1980-

LAVAL, UNIVERSITÉ

Québec, Québec

Faculty of Science and Engineering

»Génie agroalimentaire 1999-
»Génie agroenvironnemental 2002-
»Génie alimentaire 1997-
»Génie chimique 1965-
»Génie civil 1965-
»Génie des eaux 2009-
»Génie des matériaux et de la métallurgie 1990-
»Génie des mines et de la minéralurgie 1990-
»Génie du bois 2002-
»Génie électrique 1965-
»Génie géologique 1965-
»Génie géomatique 2007-
»Génie industriel 2014-
»Génie informatique 1993-
»Génie logiciel 2006-
»Génie mécanique 1965-
»Génie métallurgique 1965-1990
»Génie minier 1965-1990
»Génie physique 1965-
»Génie rural 1973-2002
»Ingénierie Réhabilitation:Infrastructure Urbaines 1999-
»Première année- Tronc commun 1980-

MANITOBA, THE UNIVERSITY OF

Winnipeg, Manitoba

Faculty of Engineering

»Agricultural Engineering 1971-1998
»Biosystems Engineering 1996-
»Civil Engineering 1965-
»Computer Engineering 1987-
»Electrical Engineering 1965-
»Geological Engineering 1965-2001
»Industrial Engineering 1987-2005
»Manufacturing Engineering 2003-2013
»Mechanical Engineering 1965-
»Year One – Common 1980-

MCGILL UNIVERSITY

Montréal, Québec

»Civil Engineering 1965-
»Computer Engineering 2009-
»Electrical Engineering 1965-
»Engineering Physics 1965-
»Environmental Engineering 2011-
»Geological Engineering 1965-
»Geological Engineering (Geophysics) 1975-1999
»Mechanical Engineering 1965-
»Mining Engineering 1974-1976
»Year One – Common 1980-

SHERBROOKE, UNIVERSITÉ DE

Sherbrooke, Québec

Faculté de génie

»Génie biotechnologique 2008-
»Génie chimique 1973-
»Génie civil 1965-
»Génie du bâtiment 2017-
»Génie électrique 1965-
»Génie informatique 1997-
»Génie mécanique 1965-
»Génie robotique 2017-

SIMON FRASER UNIVERSITY

Sherbrooke, Québec

School of Engineering Science

»Engineering Science 1986-
»Mechatronic Systems Engineering 2011-

SIR GEORGE WILLIAMS UNIVERSITY (SGW)

Montreal, Quebec

(see Concordia University. SGW offered accredited engineering programs from 1969 to 1974.)

ST. FRANCIS XAVIER UNIVERSITY

Antigonish, Nova Scotia

»St. Francis Xavier University
»Year One - Common 1980-

TORONTO, UNIVERSITY OF

Toronto, Ontario

Faculty of Applied Science and Engineering

»Chemical Engineering 1965-
»Civil Engineering 1965-
»Computer Engineering 1994-
»Electrical Engineering 1965-
»Engineering Science 1965-
»Geo-Engineering 1983-1990

Faculty of Engineering

- »Agricultural Engineering 1971-2006
- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 1993-
- »Electrical Engineering 1965-
- »General Engineering 2000-
- »Materials Engineering 2005-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering 1965-2007
- »Mining Engineering 1965-
- »Software Engineering 2007-

MCMASTER UNIVERSITY

Hamilton, Ontario

Faculty of Engineering

- »Ceramic Engineering 1974-1998
- »Chemical Engineering 1965-
- »Chemical Engineering and Bioengineering 2006-
- »Civil Engineering 1989-
- »Civil Engineering and Computer Systems 1992-1995
- »Civil Engineering and Engineering Mechanics 1965-1988
- »Computer Engineering 1981-
- »Electrical & Biomedical Engineering 2006-
- »Electrical Engineering 1965-
- »Engineering Physics 1974-
- »Manufacturing Engineering 1982-2005
- »Materials Engineering 1990-
- »Mechanical Engineering 1965-
- »Mechatronics Engineering 2009-
- »Metallurgical Engineering 1965-1997
- »Software Engineering 2001-
- »Year One – Common 1965-

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

St. John’s, Newfoundland

Faculty of Engineering and Applied Science

- »Civil Engineering 1975-
- »Computer Engineering 2002-
- »Electrical Engineering 1975-
- »Mechanical Engineering 1975-
- »Naval Architectural Engineering 1986-1996
- »Ocean and Naval Architectural Engineering 1997-
- »Process Engineering 2013-
- »Shipbuilding Engineering 1982-1985
- »Year One – Common 1980-
- »Geological and Mineral Engineering 1991-1998
- »Geological Engineering 1965-1974
- »Geological Engineering and Applied Earth Science 1975-1982
- »Industrial Engineering 1965-
- »Materials Engineering 1996-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering and Materials Science 1986-1995
- »Metallurgy and Materials Science 1965-1985
- »Mineral Engineering 1999-
- »Year One – Common 1999-

VICTORIA, UNIVERSITY OF

Victoria, British Columbia

Faculty of Engineering

- »Biomedical Engineering 2016-
- »Civil Engineering 2017-
- »Computer Engineering 1988-
- »Electrical Engineering 1988-
- »Mechanical Engineering 1992-
- »Software Engineering 2007-
- »Year One – Common 1980-

WATERLOO, UNIVERSITY OF

Waterloo, Ontario

Faculty of Engineering

- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 1989-
- »Electrical Engineering 1965-
- »Environmental Engineering 1999-
- »Geological Engineering 1986-
- »Management Engineering 2012-
- »Mechanical Engineering 1965-
- »Mechatronics Engineering 2008-
- »Nanotechnology Engineering 2010-
- »Software Engineering 2006-
- »Systems Design Engineering 1974-

WESTERN ONTARIO, THE UNIVERSITY OF

London, Ontario

Faculty of Engineering

- »Chemical and Biochemical Engineering 1972-2006
- »Chemical Engineering 1965-1971, 2007-
- »Civil Engineering 1965-
- »Computer Engineering 2001-
- »Electrical Engineering 1965-
- »Green Process Engineering 2012-

MONCTON, UNIVERSITÉ DE

Moncton, Nouveau-Brunswick

Faculté d'ingénierie

- »Génie civil 1972-
- »Génie électrique 1998-
- »Génie industriel 1975-2009
- »Génie mécanique 1990-
- »Première année- Tronc commun 1980-

MOUNT ALLISON UNIVERSITY

Moncton, New Brunswick

Faculty of Science

- »Year One – Common 1980-

NEW BRUNSWICK, UNIVERSITY OF

Fredericton, New Brunswick

Faculty of Computer Science and Faculty of Engineering

- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 2001-
- »Electrical Engineering 1965-
- »Engineering Entrance 1980-
- »Forest Engineering 1972-
- »Geological Engineering 1984-
- »Geomatics Engineering 1999-
- »Mechanical Engineering 1965-
- »Software Engineering 2006-
- »Surveying Engineering 1972-1999
- »Year One – Common 1980-

NORTHERN BRITISH COLUMBIA, UNIVERSITY OF

Prince George, British Columbia

College of Science and Management

- »Environmental Engineering 2007-

NOVA SCOTIA AGRICULTURE COLLEGE

Truro, Nova Scotia

- »Year One – Common 1980-
- »Integrated Engineering 2001-
- »Materials Engineering 1968-1999
- »Mechanical Engineering 1965-
- »Mechatronic Systems Engineering 2014-
- »Software Engineering 2001-
- »Year One – Common 1980-

WINDSOR, UNIVERSITY OF

Windsor, Ontario

Faculty of Engineering

- »Chemical Engineering 1965-1990
- »Civil Engineering 1965-
- »Electrical Engineering 1965-
- »Engineering Materials 1974-1991
- »Environmental Engineering 1991-
- »Geological Engineering 1972-1989
- »Industrial Engineering 1974-
- »Mechanical Engineering 1965-
- »Year One – Common 1980-

YORK UNIVERSITY

Toronto, Ontario

Faculty of Science and Engineering

- »Computer Engineering 2007-
- »Electrical Engineering 2017-
- »Geomatics Engineering 2007-
- »Software Engineering 2016-
- »Space Engineering 2007-
- »Undeclared Major Engineering 2007-

Appendix C

Canadian discipline categories as used in this report

This section provides a comprehensive listing of program titles, as provided by the post-secondary, which are currently offered at both the undergraduate (accredited) and postgraduate levels in Canada only. The “discipline” listing is the broad category within which a number of similar programs are grouped. While this report does not provide detailed data on individual programs, the information can be obtained by contacting Engineers Canada.

Discipline: *Biosystems*

Program

- »Agricultural and Bioresource Engineering
- »Agricultural Engineering
- »Bioengineering
- »Biological and Biomedical Engineering
- »Biological Engineering
- »Biomedical and Mechanical
- »Biomedical Engineering
- »Biomedical Mechanical Engineering
- »Biomedical: Computer Science
- »BioResource Engineering
- »Biosystems Engineering
- »Chemical and Biological Engineering
- »Forest Engineering
- »Génie agroenvironnemental
- »Génie alimentaire
- »Génie biomédical

Discipline: *Chemical*

Program

- »Chemical & Petroleum Engineering
- »Chemical and Biochemical Engineering
- »Chemical Engineering
- »Chemical Engineering and Bioengineering
- »Génie biotechnologique
- »Génie chimique
- »Nanotechnology Engineering

Discipline: *Civil*

Program

- »Architectural Conservation and Sustainability
- »Building Engineering
- »Civil & Environmental Engineering
- »Civil and Environmental Engineering
- »Civil Engineering
- »Génie civil
- »Génie de la construction
- »Génie du bâtiment
- »Infrastructure Protection & International Security
- »Safety and Risk Engineering

Discipline: *Industrial or Manufacturing*

Program

- »Advanced Design and Manufacturing Institute
- »Génie de la production automatisée
- »Génie industriel
- »Industrial Engineering
- »Industrial Systems Engineering
- »Manufacturing Engineering
- »Mechanical Manufacturing Engineering

Discipline: *Materials or Metallurgical*

Program

- »Génie des matériaux et de la métallurgie
- »Génie métallurgique
- »Materials Engineering
- »Materials Science
- »Mining/Materials Engineering

Discipline: *Mechanical*

Program

- »Automotive Engineering
- »Energy Engineering
- »Génie mécanique
- »Mechanical & Manufacturing Engineering
- »Mechanical & Materials Engineering
- »Mechanical & Mechatronics Engineering
- »Mechanical Engineering
- »Mechanical Systems Engineering
- »Mechanical/Industrial Engineering
- »Mechatronic Systems Engineering
- »Mechatronics Engineering
- »Space Engineering

Discipline: *Mining or Mineral*

Program

- »Génie des mines
- »Génie des mines et de la minéralurgie
- »Génie minéral
- »Mineral and Mining Exploration Engineering
- »Mineral Engineering
- »Mineral Resources Engineering

Discipline: *Computer*

Program

- »Computational Science and Engineering
- »Computer Engineering
- »Computer Networks
- »Computer Science
- »Computer Systems Engineering
- »Electronic Systems Engineering
- »Engineering Systems and Computing
- »Génie informatique
- »Human Computer Interaction
- »Systems - Electrical & Computer

Discipline: *Electrical*

Program

- »Biomedical and Electrical
- »Communications Engineering
- »Electrical & Biomedical Engineering
- »Electrical & Computer
- »Electrical and Computer Engineering
- »Electrical Engineering
- »Electrical/Computer Engineering
- »Electronic Business Technologies
- »Energy Systems Engineering
- »Génie des opérations et de la logistique
- »Génie des technologies de l'information
- »Génie électrique
- »Génie électromécanique
- »Génie énergétique
- »Génie robotique
- »Information systems security
- »Quality Systems Engineering
- »Sustainable Energy Engineering

Discipline: *Engineering Physics*

Program

- »Engineering Chemistry
- »Engineering Mathematics
- »Engineering Physics
- »Engineering Science
- »Génie physique
- »Mathematics and Engineering
- »Mathématiques
- »Mathématiques ingénieur

Discipline: *Environmental*

Program

- »Clean Energy Engineering
- »Environmental Engineering
- »Mining Engineering
- »Natural Resources Engineering

Discipline: *Other*

- »Aeronautical Engineering
- »Aerospace Engineering
- »Centre for Business, Entrepreneurship & Technology
- »Core Program
- »Doctorat en ingénierie
- »Doctorat en ressources minérales
- »Engineering and Public Policy
- »Engineering Design
- »Engineering Entrepreneurship & Innovation
- »Engineering Innovation and Entrepreneurship
- »Engineering Management
- »General Engineering
- »Génie
- »Génie aérospatial
- »Génie des systèmes électromécaniques
- »Génie du bois
- »Génie géomatique
- »Génie nucléaire
- »Geomatics Engineering
- »Green Process Engineering
- »Information and Systems Engineering
- »Ingénierie
- »Integrated Engineering
- »Interdisciplinary
- »Internetworking
- »Maîtrise en ingénierie
- »Maîtrise en ingénierie (gestion)
- »Management Engineering
- »Management Sciences
- »Nuclear Engineering
- »Ocean and Naval Architectural Engineering
- »Oil and Gas Engineering
- »Petroleum Engineering
- »Petroleum Systems Engineering
- »Process Engineering
- »Process Systems Engineering
- »Science Engineering (Sustainable Design)
- »Sciences appliquées
- »Systems Design Engineering
- »Systems Science
- »Technologie des systèmes
- »TIM (Systems)
- »UNENE

Discipline: *Software*

»Environmental Systems Engineering

»Génie des eaux

»Maîtrise en génie de l'environnement

»Maîtrise en Science de la Terre

»Sustainable & Renewable Energy

»Water Resources Engineering

Discipline: *Geological*

Program

»Génie géologique

»Geological Engineering

Program

»Génie logiciel

»Information Systems Science

»Information Technology

»Software Engineering

»Software Engineering & Virtual Systems Design

»Software Systems Engineering

Year One/Two Common Year

»Undeclared Major Engineering

»Year One - Common

The discipline Engineering Science (E.Sci.) involves science-intensive studies in engineering physics, engineering bioscience, engineering chemistry and other specializations offered by universities with accredited engineering science programs.

Several universities in Canada have common first-year and, in some cases, second-year programs. Students in these programs do not declare a discipline of study in their first year or, as applicable, second year. The total number of students in common first-, second- and qualifying-year programs have been separated from the “Other” category, beginning with the 1997 data. This subdivision will be continued in future years.

Appendix D

Associated universities explained

Dalhousie University, Royal Military College of Canada (RMC), and Associated Universities

The bachelor of engineering degree awarded by Dalhousie University is normally conferred in association with one of several associated universities. The program of study is divided into two parts: the associated universities offer programs in engineering covering the first part of the requirements for the degree and the Faculty of Engineering at Dalhousie offers courses in several departments of engineering covering the second part. There are other higher education institutions in Canada that operate under this model. Under the Accreditation Board's regulations for granting credits, a formally documented validation procedure must be in place.

Some of the associated universities include the following:

- »Acadia University
- »University of Cape Breton
- »Dalhousie University
- »Mount Allison University (as of 2000, no longer offering engineering programs)
- »Nova Scotia Agricultural College
- »St. Francis Xavier University
- »Saint Mary’s University