



2015 Canadian Engineers for Tomorrow

Trends in Engineering Enrolment and Degrees Awarded 2010-2015

Trends in Engineering Enrolment and Degrees Awarded 2011-2015

Message from the Chief Executive Officer



The Enrolment and Degrees Awarded Report highlights strong growth in the number of students pursuing an engineering education.

During the 2015 academic year, undergraduate enrolment continued to increase and demonstrated strong growth in the number of students pursuing an engineering education. Undergraduate enrolment increased a total of 24 per cent from 2011, reaching a total of 81,287 students in 2015. From the 2014 academic year, undergraduate enrolment increased six per cent while postgraduate enrolment increased seven per cent, to reach 24,421 students.

Canadian engineering programs continue to be a popular choice for international students. In 2015, the total number of undergraduate international students reached 13,001, accounting for 19 per cent of all undergraduate enrolments. It is encouraging to see that the number of degrees awarded continues to grow along with student enrolment. A total of 14,577 degrees were awarded to undergraduate students in 2015, a hefty 24 per cent increase from 2011. There were also 7,678 master's degrees awarded in 2015, reflecting an increase of 23 per cent from 2014 and a 72 per cent from 2011. The number of doctoral degrees awarded followed similar trends, increasing three per cent from 2014 and 37 per cent from 2011.

For the first time, Engineers Canada collected information in 2016 regarding Indigenous students' enrolment and degrees awarded. In 2015, less than one per cent of undergraduate students identified as Indigenous. Like the population of women in engineering programs, Indigenous peoples are significantly underrepresented. We will continue to track this information in the coming years to identify trends in Indigenous enrolment and degrees awarded.

Kim Allen, MBA, FCAE, FEC, P.Eng.
Chief Executive Officer
Engineers Canada

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: University of Waterloo Faculty of Engineering/Jonathan Bielaski. Report By: Stefanie Wlotzki

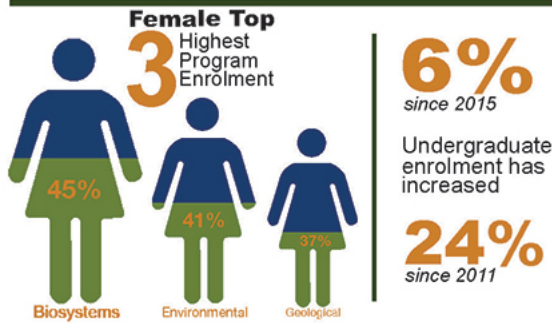
Foreword

Each year, Engineers Canada gathers data on student enrolment and graduations from Canada's higher education institutions. This report analyzes trends in engineering student enrolment within accredited engineering programs across the nation.

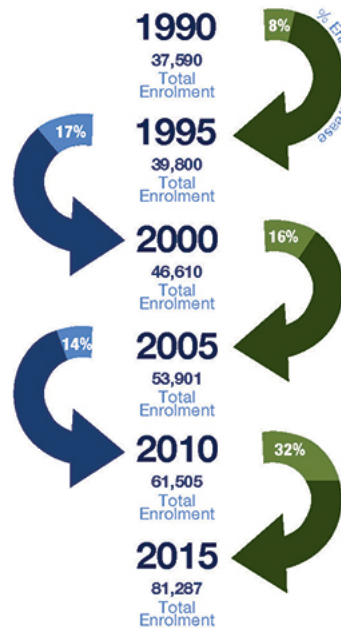
Understanding these trends enables Engineers Canada and other members of the profession to:

- » Compare patterns in the changing number of students who enrol in and graduate from the various engineering programs offered in the provinces
- » Assess the number of women, Indigenous peoples and international students who are pursuing engineering and education
- » Exchange pertinent information about similar and distinctly different trends across disciplines and institutions

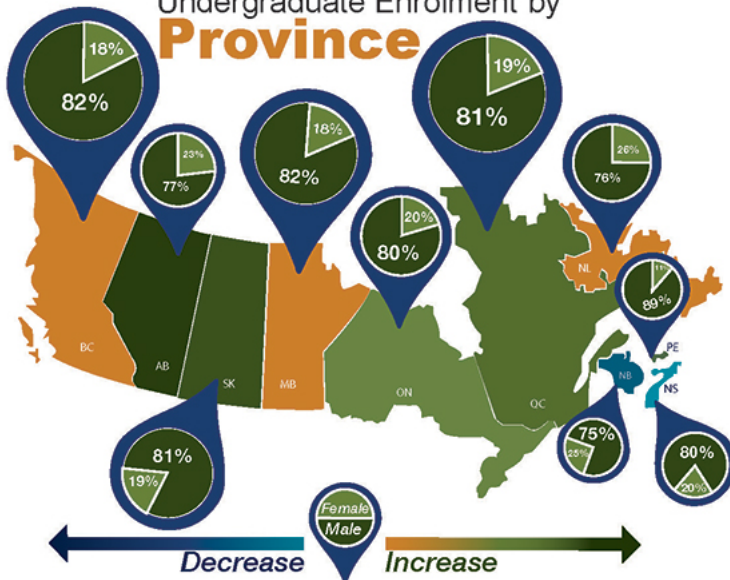
Canadian Engineering Enrolment Facts 2015



Undergraduate enrolment has **increased 54%** from 1990 to 2015



Undergraduate Enrolment by Province

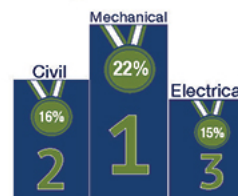


TWENTY PER CENT of engineering students are female.



12,297 Female undergraduate students

Top 3 highest shares of enrolment.



Introduction

The Engineering Enrolment and Degrees Awarded Report is an annual examination of Canada's undergraduate and postgraduate engineering programs that evaluates trends in part- and full-time student enrolment and degrees awarded over a five-year period. In 2015, 49 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 postgraduate 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 doctoral levels are compared, along with men and women studying and graduating from engineering programs. In 2016, a series of questions regarding Indigenous peoples' enrolment and graduation from engineering programs was piloted and results are 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.

Undergraduate student enrolment and degrees awarded

Undergraduate student enrolment

Undergraduate enrolment in accredited engineering programs has increased six per cent since 2014, and 24 per cent from 2011. In 2015, enrolment reached a total of 81,287 students in accredited engineering programs across Canada.

Chart 1.1 shows undergraduate enrolment in engineering programs, including students enrolled in unaccredited programs. The number of undergraduate engineering students in both accredited and unaccredited programs totaled 82,240 in 2015. This reflects an increase of seven per cent from 2014.

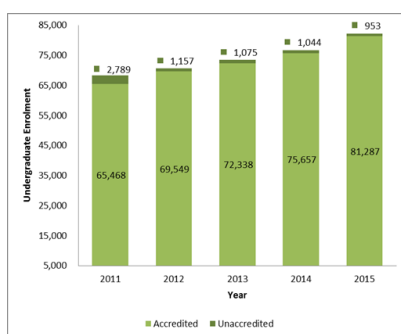


Chart 1.1: Undergraduate enrolment 2011-2015 (all programs, FTE)

For more detailed data tabulations corresponding to each chart, refer to Appendix A.

Undergraduate enrolment by program

Chart 1.2 illustrates the trends occurring in enrolment by program. Mechanical, civil and electrical engineering programs continue to have the highest shares of enrolment with 22 per cent, 16 per cent and 15 per cent, respectively; however, these are not the fastest growing programs.

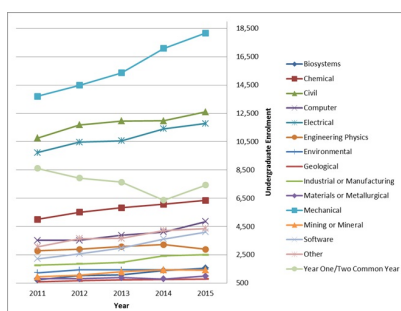


Chart 1.2: Undergraduate enrolment by program 2011-2015

As shown in **Chart 1.3**, undergraduate enrolment in biosystems, software and mining or mineral engineering programs continue to grow the fastest, with an increase of 117 per cent, 85 per cent and 52 per cent, respectively, between 2011 and 2015. By contrast, enrolment in Year One/Two Common engineering programs continues to remain below 2011 levels, declining 14 per cent since 2011. However, it did see a 17 per cent increase in enrolment in 2015.

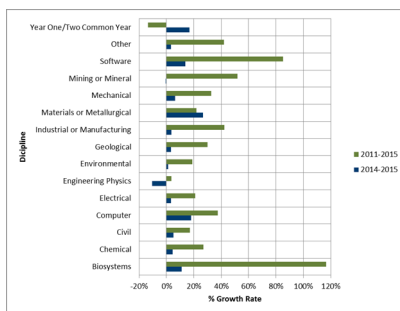


Chart 1.3: Undergraduate enrolment growth by program (FTE)

Undergraduate enrolment by province

Ontario continues to be the province with the highest proportion of undergraduate enrolment, making up 44 per cent of total enrolment, an increase of five per cent from 2014. Following Ontario, Quebec makes up 26 per cent of undergraduate enrolment, rising six per cent from 2014. Since 2011, Ontario and Quebec are growing the fastest, along with Manitoba, with increases of 30 per cent, 33 per cent and 32 per cent, respectively.

Unlike in 2014, when Alberta saw the largest decrease in year-to-year enrolment, in 2015, Alberta had the highest increase, with an increase of 26 per cent over 2014. Taking Alberta's place as the province with the largest decrease, enrolment in New Brunswick's engineering programs decreased by nine per cent from 2011 to 2015 and by three per cent from 2014 to 2015.

For the third year in a row, Newfoundland and Labrador continues to have the highest percentage of female undergraduates with 26 per cent, increasing from 24 per cent in 2014. Prince Edward Island continues to be the province with the lowest percentage of female enrolment, where they make up only 11 per cent of the undergraduate engineering student population.

International students are enrolling in undergraduate engineering programs in greater amounts in Ontario (42 per cent), Quebec (24 per cent) and British Columbia (10 per cent). This contrasts with last year's enrolment, where international students were enrolling in the maritime provinces—Prince Edward Island, Nova Scotia and New Brunswick.

Undergraduate enrolment by gender

Female undergraduate enrolment follows similar trends with undergraduate student enrolment and continues to rise, reaching 16,297 undergraduate students, or 20 per cent of total enrolment, in 2015—a 12 per cent increase from 2014.

While the highest percentage of female undergraduate enrolment was in 2001, with 21 per cent of students, the percentages have been increasing at a rate about one per cent per year since 2008 (**Chart 1.4**). Should this trend continue, the percentage of female undergraduate students in 2016 should be on par with the 2001 numbers.

Chart 1.5 indicates that the top three disciplines with female enrolment are biosystems, environmental and geological engineering programs at 45 per cent, 41 per cent and 37 per cent, respectively. Even though these disciplines have the highest percentage of female enrolment, they do not have the highest female enrolment numbers. The civil (3,143), chemical (2,255) and mechanical (2,148) disciplines—have the largest female enrolment. The disciplines with the fewest number of females enrolled are computer, mechanical and software engineering at 12 per cent, or about 500 female students in each program.

As shown in **Chart 1.6**, there has been steady growth in female enrolment in disciplines from 2011 to 2015. The disciplines with the most cumulative growth are biosystems, with a growth of 153 per cent, and software engineering with a growth of 137 per cent. Conversely, not all disciplines are growing; the percentage difference from 2014 to 2015, particularly in mining or mineral engineering, environmental, and engineering physics, follow a different trend, with negative four per cent, negative one per cent and negative one per cent growth, respectively. These three disciplines saw smaller female enrolment numbers in 2015.

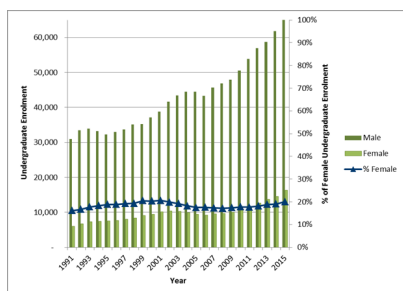


Chart 1.4: Undergraduate enrolment by gender (FTE) 1991-2015

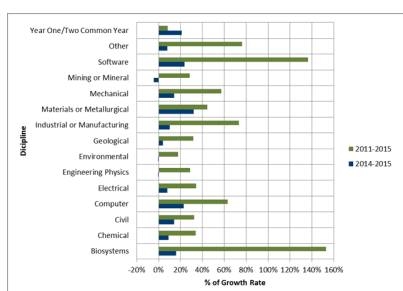


Chart 1.5: Female undergraduate enrolment by program

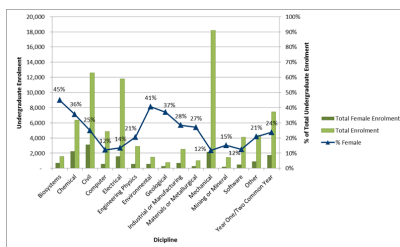


Chart 1.6: Female undergraduate enrolment growth by program 2015

Undergraduate enrolment of international students

Chart 1.7 shows the number and proportion of international students, as well as the yearly growth in their enrolment. In 2015, the total number of international students accounts for 19 per cent of all undergraduate enrolments, reaching 13,001 students. This number is an important increase from 2014, when international student enrolment was at 15 per cent, or 11,354 students. Nonetheless, this growth rate is still significantly lower than from 2012 to 2013, where the increase in international students accounted for more than 39.9 percent of the overall increase in engineering student enrolment. Thus, the overall trend indicates a slowing rate of international students enrolling in Canadian undergraduate engineering programs.

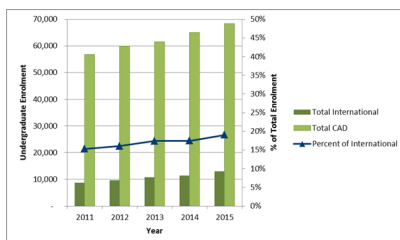


Chart 1.7: Undergraduate enrolment of international students 2011-2015

Undergraduate degrees awarded

The number of undergraduate degrees awarded increased by 24 per cent from 2011, reaching 14,577 students in 2015. As shown in Chart 1.8, the program with the most undergraduate degrees awarded is mechanical engineering with 3,634 degrees in 2015. The fastest growing undergraduate degrees awarded, from 2011 to 2015 are software engineering degrees (73 per cent increase), biosystems engineering degrees (54 per cent increase) and industrial or manufacturing engineering degrees (51 per cent increase).

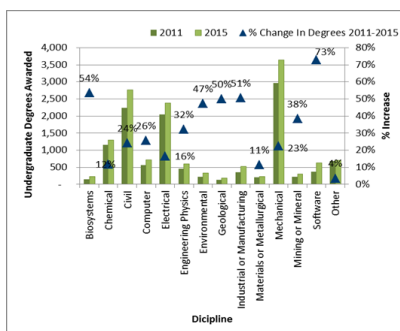


Chart 1.8: Undergraduate degrees awarded 2011-2015

Similarly, Chart 1.9, which represents undergraduate degrees awarded to females, demonstrates that the number of degrees awarded to female undergraduates increased from 2011 to 2014. The percentage of females compared to males with undergraduate degrees has fluctuated throughout the five years presented in this report, with an average of 19 per cent of undergraduate degrees being awarded to females.

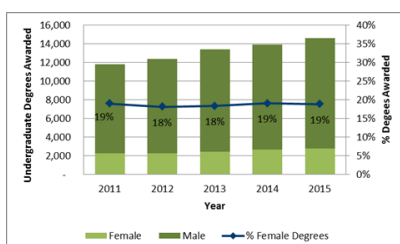


Chart 1.9: Undergraduate degrees awarded by gender 2011-2015

Chart 1.10 represents the trends of degrees awarded to international student and shows a steady increase, with nine per cent awarded in 2011 to international students and 13 per cent awarded in 2015.

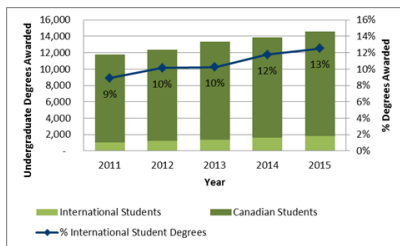


Chart 1.10: Undergraduate degrees awarded to international students 2011-2014

Postgraduate enrolment and degrees awarded

Graduate student enrolment

Overall, postgraduate enrolment numbers increased seven per cent from 2014 to 2015 to 24,421 students. This is a dramatic increase compared to 2014 when the number of students enrolling declined 2.5 per cent from 2013 levels.

In 2015, master's student enrolment increased while, in 2014, there was a decline at this level. The percentage of part-time master's students continues to decline, only accounting for 12 per cent (1,812 students) of graduate students in 2015, compared to 19 per cent in 2011 (2,679).

Following the trends of master's degrees, both full- and part-time doctoral student enrolment increased from 2014 and from 2011 reaching a total of 9,570 students. Chart 2.1 illustrates the trends in part-time and full-time enrolment in master's and doctoral programs.

Charts 2.2 and 2.3 illustrate enrolment trends in both master's and doctoral programs. Electrical engineering continues to have the most students enrolled in both levels, with 3,645 and 2,423 students, respectively. At both the master's and doctoral levels, computer engineering has had the largest growth in student enrolment, with 19 per cent and 34 per cent, respectively.

Conversely, doctoral enrolment in geological engineering has decreased the most since 2014, with a 67 per cent decrease. Materials and metallurgical engineering has decreased one per cent at the doctoral level. These trends are shown in Chart 2.4.

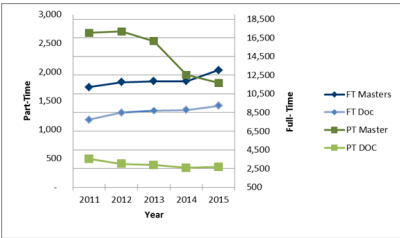


Chart 2.1: Postgraduate Enrolment 2011-2015

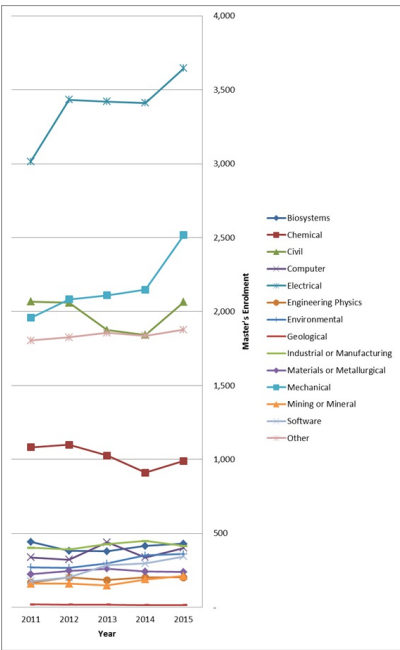


Chart 2.2: Master's Enrolment By Program 2011-2015

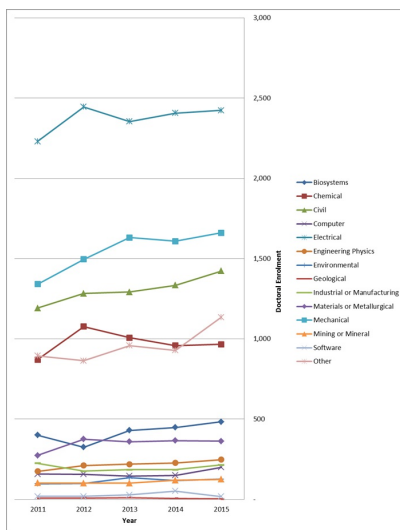


Chart 2.3: Doctoral Enrolment By Program 2011-2015

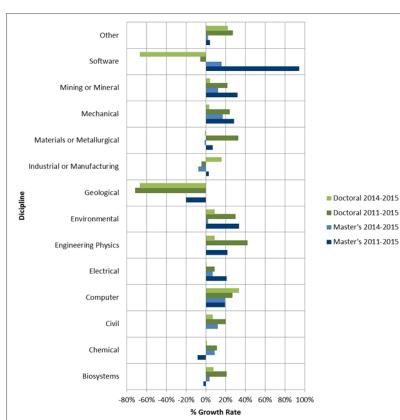


Chart 2.4: Postgraduate Enrolment Growth By Program 2011-2015

Postgraduate enrolment by gender

Trends in postgraduate enrolment by gender continue to stay mostly unchanged from 2014. There continues to be a higher proportion of female postgraduate enrolment (24 per cent) than undergraduate enrolment (20 per cent). Different from 2014, however, are the programs with the highest percentage of female enrolment. Electrical engineering has the highest percentage of female postgraduate enrolment with 23 percent, followed by civil engineering with 17 per cent and chemical with 12 per cent.

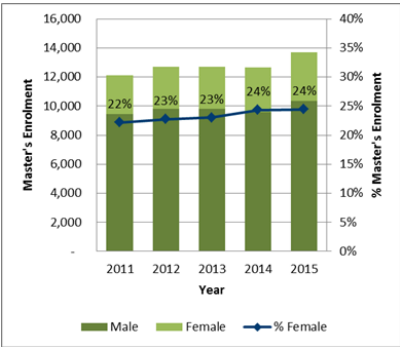


Chart 2.5: Master's Enrolment By Gender 2011-2015

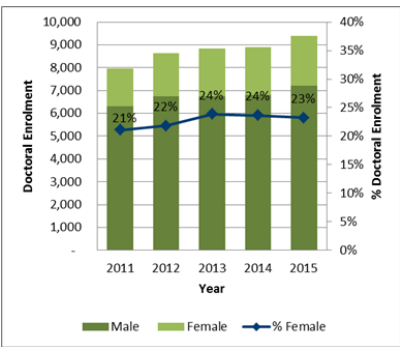


Chart 2.6: Doctoral Enrolment By Gender 2011-2015

Postgraduate enrolment by international students

At 12,742 students, international students continue to account for over half of total postgraduate enrolment (57 per cent), increasing four per cent from 2014. While international student enrolment continues to increase, Canadian student enrolment in Canadian engineering programs continues to decrease, declining by three percent from 2014. Chart 2.7 illustrates that the growth in postgraduate enrolment from previous years is entirely the result of the increase in international students' postgraduate enrolment, as Canadian postgraduate enrolment has been decreasing steadily.

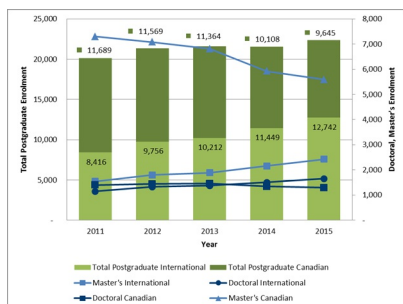


Chart 2.7: Postgraduate Enrolment Of International Students 2011-2015

Postgraduate degrees awarded

In 2015, there were 7,678 master's degrees awarded, reflecting an increase of 23 per cent from 2014 and a 72 per cent increase from 2011. Master's degrees awarded to female students account for 25 per cent and are consistent with the average female master's degree enrolment rate of 23 per cent over the five years covered in this report. Chart 2.8 reflects this consistency and does not indicate any difference in gender completion rates.

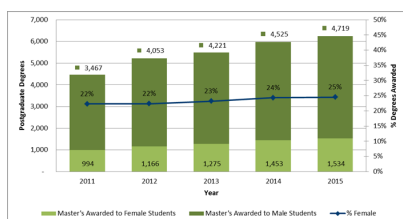


Chart 2.8: Master's Awarded By Gender 2011-2015

Shown in Chart 2.9, in 2015, there were 1,425 doctorates awarded, reflecting an increase of three per cent from 2014 and a 37 per cent increase from 2011. Female doctorates account for 22 per cent of total doctoral degrees awarded in 2015, which is consistent with the proportion of female doctoral students (22 per cent).

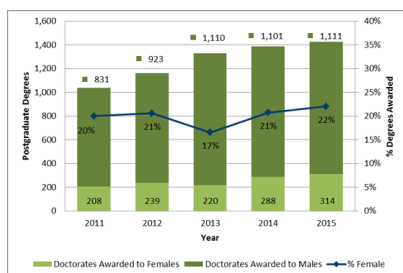
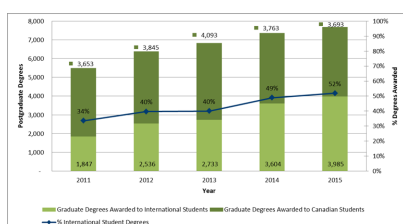


Chart 2.9: Doctorates Awarded By Gender 2011-2015

Chart 2.10 highlights the large increase in graduate degrees awarded to international students since 2011, in accordance with the large increase in international student postgraduate enrolment. Following similar trends to 2014, in 2015 the proportion of international student degrees awarded exceeded the average international student enrolment of 42 per cent over the five years and there were 3,985 international students that graduated.



**Chart 2.10: Graduate Degrees
Awarded To International
Students 2011-2015**

Undergraduate enrolment of Indigenous peoples

In 2016, a series of questions regarding Indigenous peoples’ enrolment and graduation from engineering programs was piloted. Chart 3.1 illustrates the enrolment and graduation of Indigenous students from Canadian engineering programs. Engineers Canada plans to continue this data collection in coming years to be able to identify relevant trends.

A total of 22 post-secondary institutions responded. Three of those were unable to find the information required to respond to the survey questions. Because of the small sample size, the information that is provided on Indigenous student enrolment is only provided in aggregate form to assure anonymity.

There were a total of 337 Indigenous students who enrolled in undergraduate studies and 147 that enrolled in a post-graduate program. Indigenous peoples are 0.97 per cent of undergraduate enrolment and 0.76 per cent of post-graduate enrolment. Indigenous peoples make up more than 4.3 per cent of the Canadian population.

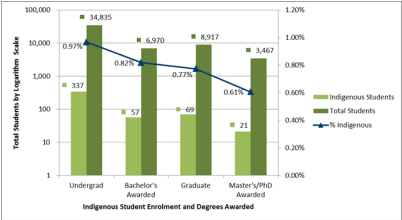


Chart 3.1: Indigenous Student Enrolment and Degrees Awarded

Faculty Members

As shown in Chart 3.2, faculty members decreased in 2015 by 0.1 per cent to 4,318. Female faculty members accounted for 14.6 per cent of all faculty members and increased one percent from 2014, but decreased by only one percent from 2011.

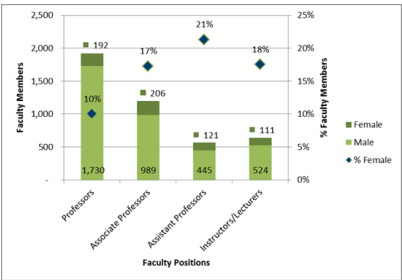


Chart 3.2: Faculty members by gender

Appendix A

Data tabulations - engineering enrolment and degrees awarded

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)

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

Post-graduate Student Enrolment (G)

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

Post-graduate Degrees Awarded (GD)

- »GD.1. National
- »GD.2. Provincial
- »GD.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

For 2007 and onwards, data are based on the average number of students enrolled over the fall, winter and summer terms.

School name and acronyms

In the *Appendix* section of this report, all university names, where appropriate, have been abbreviated. The chart shown below lists the complete name of the school and the abbreviated name that is used.

Complete name of the school and the abbreviated name that is used.	
Complete School Name	Abbreviation
Acadia University	Acadia
Alberta, University of	Alberta
British Columbia Institute of Technology	BCIT
British Columbia, University of	UBC
British Columbia at Okanagan, University of	UBCO
Calgary, The University of	Calgary
Cape Breton, University College of	Cape Breton
Carleton University	Carleton
Concordia University	Concordia
Conestoga College	Conestoga
Dalhousie University	Dal
École de technologie supérieure	ETS
Guelph, University of	Guelph
Lakehead University	Lakehead
Laurentian University	Laurentian
Laval, Université	Laval
Manitoba, The University of	Manitoba
McGill University	McGill

McMaster University	McMaster
Memorial University of Newfoundland	MUN
Moncton, Université de	Moncton
New Brunswick, University of	UNB
Northern British Columbia, University of	UNBC
Nova Scotia Agricultural College	NSAC
Ottawa, University of	Ottawa
Prince Edward Island, University of	UPEI
Polytechnique, École	Polytechnique
Québec à Chicoutimi, Université du	UQAC
Québec à Montréal, Université du	UQAM
Québec à Rimouski, Université du	UQAR
Québec à Trois-Rivières, Université du	UQTR
Québec en Abitibi-Témiscamingue, Université du	UQAT
Québec en Outaouais, Université du	UQO
Queen's University	Queen's
Regina, University of	Regina
Royal Military College of Canada	RMC
Ryerson University	Ryerson
Saint Mary's University	SMU
Saskatchewan, University of	Saskatchewan
Sherbrooke, Université de	Sherbrooke
Simon Fraser University	SFU
St. Francis Xavier University	StFX
Toronto, University of	Toronto
University of Ontario, Institute of Technology	UOIT
Victoria, University of	Uvic
Waterloo, University of	Waterloo
Western Ontario, University of	Western
Windsor, University of	Windsor
York University	York

Complete name of the Province or Territory and the abbreviated name that is used.

Province Name	Abbreviation
Alberta	AB
British Columbia	BC
Manitoba	MB
New Brunswick	NB
Newfoundland and Labrador	NL
Nova Scotia	NS
Ontario	ON
Prince Edward Island	PE
Québec	QC
Saskatchewan	SK

Undergraduate Enrolment (U)

U.1.1 Total undergraduate enrolment in accredited engineering programs by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	719	1023	1080	1402	1558
Chemical	5000	5517	5825	6076	6347

Civil	10758	11681	11957	11974	12606
Computer	3526	3520	3873	4105	4849
Electrical	9727	10462	10556	11411	11778
Engineering Physics	2786	2894	3081	3222	2887
Environmental	1229	1440	1440	1444	1462
Geological	604	667	730	761	786
Industrial or Manufacturing	1766	1857	1959	2427	2513
Materials or Metallurgical	824	805	886	793	1004
Mechanical	13703	14489	15368	17091	18168
Mining or Mineral	936	1046	1304	1431	1423
Software	2222	2573	2974	3616	4114
Other	3063	3649	3662	4215	4354
Year One/Two Common Year	8605	7926	7642	6363	7438
TOTAL	65468	69549	72338	76330	81287

U.1.2 Total female undergraduate enrolment in accredited engineering programs: 1991 to 2015.

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	69,549	12,609	18.1
2013	72,338	13,652	18.9
2014	76,330	14,527	19
2015	81,287	16,297	20

Table U.1.3 Total female undergraduate enrolment in accredited engineering programs: 2011-2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	277	439	450	603	700
Chemical	1,686	1,826	1,920	2,067	2,255
Civil	2,370	2,556	2,718	2,755	3,143
Computer	360	355	416	478	587
Electrical	1,185	1,297	1,367	1,471	1,591
Engineering Physics	461	497	555	597	594
Environmental	504	565	571	597	594
Geological	221	245	268	280	291
Industrial or Manufacturing	412	441	489	647	714
Materials or Metallurgical	188	188	219	206	272
Mechanical	1,367	1,502	1,672	1,882	2,148
Mining or Mineral	168	186	191	226	216
Software	216	253	330	413	511
Other	518	657	722	843	912
Year One/Two Common Year	1,630	1,600	1,764	1,462	1,769
TOTAL	11,563	12,609	13,652	14,527	16,297

Table U.1.4 Total 2015 undergraduate enrolment in engineering programs which will be seeking accreditation.

Institution	Program	015
Calgary	Energy Engineering	48
Laurentian	Civil Engineering	11
Laval	Génie industriel	135
McGill	General Engineering	58
UOIT	Energy Systems Engineering	49
UQO	Génie électrique	36
UVic	Biomedical Engineering	65
UVic	Civil Engineering	114
Waterloo	Biomedical Engineering	69
York	Civil Engineering	88
York	Electrical Engineering	81
York	Mechanical Engineering	92
York	Software Engineering	61
York	Undeclared Major Engineering	48
TOTAL		953

Table U.2.1 Total undergraduate enrolment in accredited engineering programs by province: 2011-2015.

Province	2011	2012	2013	2014	2015
AB	6,897	7,154	7,334	5,818	7,317
BC	7,158	8,168	6,935	7,386	7,644
MB	1,154	1,255	1,412	1,483	1,521
NB	2,018	2,141	2,025	1,886	1,836
NL	873	859	937	989	1,030
NS	1,777	1,863	2,049	2,137	2,093
ON	27,522	28,904	30,288	34,089	35,868
PE	103	111	126	120	128
QC	15,814	16,969	18,659	19,839	21,073
SK	2,152	2,126	2,574	2,584	2,778
TOTAL	65,468	69,550	72,339	76,331	81,288

Table U.2.2 Total female undergraduate enrolment in accredited engineering programs by province: 2015.

Province	Total Enrolment	Female Enrolment	Percent Female Enrolment
AB	7,317	1,684	23.00%
BC	7,644	1,393	18.20%
MB	1,521	277	18.20%
NB	1,836	451	24.60%
NL	1,030	269	26.10%
NS	2,093	421	20.10%
ON	35,868	7,362	20.50%
PE	128	14	11.00%
QC	21,073	3,904	18.50%
SK	2,778	522	18.80%
TOTAL	81,288	16,297	20.00%

Table U.2.3 Total undergraduate foreign student enrolment in accredited engineering programs by province: 2011-2015.

Province	2011	2012	2013	2014	2015
AB	655	738	795	644	929
BC	829	1,014	1,018	1,177	1,359
MB	149	185	245	276	258
NB	611	659	674	451	617
NL	89	86	95	102	109
NS	318	440	479	513	536
ON	3,474	3,778	4,197	4,841	5,430
PE	12	12	20	30	30
QC	2,157	2,290	2,623	2,743	3,074
SK	385	405	573	577	659
TOTAL	8,679	9,607	10,719	11,354	13,001

Table U.2.4 Total undergraduate enrolment in accredited engineering programs by discipline and province: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK	Total
Biosystems		75	115				1,084		280	5	1,558
Chemical	953	198		180		102	3,560		1,141	214	6,347
Civil	1,012	728	251	580	154	116	4,690		4,877	198	12,606
Computer	188	401	104	20	53		2,828		1,051	205	4,849
Electrical	1,006	1,388	302	286	82	152	5,079		3,387	96	11,778
Engineering Physics	50	1,024					1,516		255	42	2,887
Environmental		146				53	910		87	265	1,462
Geological		120		62			265		263	76	786
Industrial or Manufacturing						107	804		1,285	318	2,513
Materials or Metallurgical	162	133				26	391		292		1,004
Mechanical	1,576	1,704	459	468	237	182	7,962		5,347	235	18,168
Mining or Mineral	176	143				93	492		520		1,423
Software	158	171		91			1,676		1,907	111	4,114
Other	517	141		86	176	757	1,928		382	368	4,354
Year One/Two Common Year	1,520	1,272	290	62	330	505	2,684	128		647	7,438
TOTAL	7,318	7,644	1,521	1,835	1,032	2,093	35,868	128	21,074	2,780	81,287

Table U.2.5 Total female undergraduate enrolment in accredited engineering programs by discipline and province: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK	Total
Biosystems		32	50				480		136	1	700
Chemical	307	71		59		37	1,231		492	60	2,255
Civil	330	144	53	221	45	27	1,176		1,096	52	3,143
Computer	24	63	16	1	5		356		107	16	587
Electrical	174	162	44	56	15	16	715		401	8	1,591
Engineering Physics	6	187					342		54	4	594
Environmental		64				22	365		37	106	594
Geological		46		20			101		107	17	291
Industrial or Manufacturing						25	251		395	43	714
Materials or Metallurgical	40	29				5	120		78		272
Mechanical	238	203	53	59	42	19	889		625	22	2,148
Mining or Mineral	18	18				9	93		79		216
Software	25	14		11			218		231	12	511
Other	126	31		13	66	163	389		65	59	912
Year One/Two Common Year	396	329	61	12	98	101	636	14		123	1,769
TOTAL	1,684	1,393	277	452	271	424	7,362	14	3,905	523	16,297

U.3.1 Total undergraduate enrolment in accredited engineering programs by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Acadia	101	207	171	153	153
Alberta	3,904	4,021	4,145	3,277	4,222
BCIT	465	469	486	784	882
Calgary	2,993	3,133	3,189	2,541	3,095
CapeBreton	84	118	83	54	41
Carleton	2,698	3,186	3,228	3,511	4,022
Concordia	2,787	2,610	3,090	3,228	3,463
Conestoga	80	80	98	161	176
Dal	1,273	1,208	1,343	1,508	1,588
ETS	3,654	3,921	4,382	5,762	5,201
Guelph	528	530	942	1,320	1,392
Lakehead	796	806	798	849	1,006
Laurentian	442	279	382	544	481
Laval	1,683	1,841	1,987	1,059	2,308
Manitoba	1,154	1,255	1,412	1,483	1,521
McGill	2,257	2,259	2,649	2,769	2,826
McMaster	2,731	2,338	2,737	3,330	3,473
Moncton	338	367	358	343	422
MUN	873	859	937	989	1,030
NSAC	59	31	65	72	19
Ottawa	1,805	2,030	2,340	2,661	3,009
Polytechnique	3,644	4,197	4,305	4,704	4,896
Queen's	2,687	2,734	2,745	2,811	2,546
Regina	878	876	1,157	1,166	1,389
RMC	431	440	513	418	416
Ryerson	2,569	3,036	3,193	3,632	3,913
Saskatchewan	1,274	1,251	1,418	1,417	1,390
SFU	945	990	1,120	1,245	1,215
Sherbrooke	1,248	1,248	1,339	1,358	1,459
SMU	167	214	297	281	214
StFX	93	85	90	70	79
Toronto	4,386	4,488	4,560	4,672	4,745
UBC	3,800	3,873	3,699	3,501	3,537
UBCO	884	1,650	262	396	387
UNB	1,680	1,774	1,667	1,543	1,414
UNBC	73	89	84	85	89
UOIT	1,243	1,370	763	1,633	1,787
UPEI	103	111	126	120	128
UQAC	208	365	358	370	387
UQAM	27	42	42	47	
UQAR	86	81	89	88	114
UQAT	54	55	62	63	63
UQO	3	35	30	29	28
UQTR	163	314	327	362	329
UVic	992	1,098	1,284	1,374	1,534
Waterloo	4,622	5,047	5,182	5,315	5,456
Western	1,324	1,260	1,321	1,582	1,695
Windsor	985	1,064	1,245	1,468	1,540
York	195	218	241	183	211
TOTAL	65,469	69,553	72,341	76,331	81,291

U.3.2 Total female undergraduate enrolment in accredited engineering programs by institution: 2011 to 2015

Institution	2011	2012	2013	2014	2015
Acadia	23	27	38	31	37
Alberta	774	800	827	658	893
BCIT	37	39	42	59	62
Calgary	701	747	773	645	791
Cape Breton	14	16	18	10	4
Carleton	370	446	450	504	669
Concordia	471	490	606	645	705
Conestoga	9	5	5	10	8
Dal	241	229	262	291	321
ETS	325	353	385	507	458
Guelph	160	167	228	362	388
Lakehead	64	77	88	88	130
Laurentian	74	41	52	84	81
Laval	311	336	361	214	427
Manitoba	194	217	250	275	277
McGill	510	496	604	646	684
McMaster	434	418	514	587	686
Moncton	60	63	65	65	207
MUN	183	188	243	241	269
NSAC	6	5	9	17	1
Ottawa	325	409	445	527	595
Polytechnique	755	914	992	1,168	1,269
Queen's	687	741	775	815	780
Regina	184	168	266	249	251
RMC	46	60	71	51	48
Ryerson	377	522	539	638	738
Saskatchewan	247	243	279	277	272
SFU	120	133	155	187	197
Sherbrooke	194	190	213	207	214
SMU	20	25	42	42	32
StFX	23	20	26	22	27
Toronto	1,024	1,068	1,116	1,198	1,282
UBC	732	760	783	787	863
UBCO	98	205	32	49	48
UNB	278	278	255	277	244
UNBC	33	43	38	32	35
UOIT	90	100	66	111	144
UPEI	25	12	18	10	14
UQAC	27	45	53	58	64
UQAM	2	3	3	4	
UQAR	7	15	13	8	6
UQAT	10	12	13	12	9
UQO	1	4	3	5	7
UQTR	18	43	50	69	62
UVic	90	98	133	151	188
Waterloo	777	915	975	1,058	1,188
Western	250	242	261	312	343
Windsor	130	145	178	236	242
York	33	38	42	32	41
TOTAL	11,564	12,611	13,655	14,531	16,301

U.3.3 Total undergraduate enrolment in accredited engineering programs by institution and discipline: 2015

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
Acadia															153
Alberta		603	648	188	442	50				162	906	176		224	823
BCIT			190		389						303				
Calgary		350	364		564						670		158	293	697
CapeBreton															41
Carleton	167	0	802	302	927	119	323				593		268	521	
Concordia			999	187	387				308		1,085		497		
Conestoga				57							120				
Dal		102	116		152		53		107	26	182	93		757	
ETS			1,589		1,340				397		1,297		577		
Guelph	363			172			346				512				
Lakehead		102	361		175						334		34		
Laurentian		139									168	174			
Laval	126	131	551	126	186		87	99		73	473	189	161	106	
Manitoba	115		251	104	302						459				290
McGill		385	387	158	556					219	739	144	238		
McMaster		371	381	175	459	127				191	590		299		880
Moncton			250		75						97				
MUN			154	53	82						237			176	330
NSAC															19
Ottawa	239	495	640	254	486						635		261		
Polytechnique	154	381	917	299	437	255		123	459		1,008	187	434	242	
Queen's		334	313	175	206	418		173				197			731
Regina				148			213		318				111	368	231
RMC		42	59	37	37						45			72	124
Ryerson	315	387	697	319	681				246		753			452	65
Saskatchewan	5	214	198	57	96	42	52	76			235				416
SFU						812					403				
Sherbrooke		231	289	222	282						435				
SMU															214
StFX															79
Toronto		552	461	486	753	852			369	200	733	121			220
UBC	75	198	401	339	513	212	57	120		133	386	143		141	819
UBCO			137		66						184				
UNB		180	330	20	211			62			371		91	86	62
UNBC							89								
UOIT					383				56		918		191	239	
UPEI															128
UQAC			145	30	63			41			107				
UQAR					26						54			33	
UQAT					29						34				
UQO				28											
UQTR		13			80				121		115				
UVic				62	420						428		171		453

Waterloo		946	483	716	557		196	92			1,425		480	563	
Western		194	208	46	130						350		144	44	579
Windsor			286		285		45		133		705				86
York				92							83			37	
TOTAL	1,559	6,350	12,607	4,852	11,777	2,887	1,461	786	2,514	1,004	18,168	1,422	4,115	4,354	7,440

U.3.4 Total female undergraduate enrolment in accredited engineering programs by institution and discipline: 2015

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
Acadia															37
Alberta		189	199	24	61	6				40	112	18		40	204
BCIT			24		23						15				
Calgary		118	131		113						126		25	86	192
CapeBreton															4
Carleton	59	0	201	27	125	16	100				46		29	66	
Concordia			274	17	65				127		141		81		
Conestoga				2							6				
Dal		37	27		16		22		25	5	19	9		163	
ETS			234		110				29		59		25		
Guelph	173			21			142				52				
Lakehead		32	48		8						40		3		
Laurentian		37									17	27			
Laval	57	47	102	11	17		37	34		13	37	24	23	25	
Manitoba	50		53	16	44						53				61
McGill		160	131	22	101					65	133	28	43		
McMaster		122	86	20	95	14				51	75		38		185
Moncton			149		39						19				
MUN			45	5	15						42			66	98
NSAC															1
Ottawa	104	165	134	36	46						75		36		
Polytechnique	79	204	258	36	75	54		60	196		184	26	59	38	
Queen's		150	130	29	36	102		80				40			214
Regina				12			82		43				12	59	42
RMC		12	6	3	5						10			3	9
Ryerson	144	122	146	35	75				77		58			64	18
Saskatchewan	1	60	52	4	8	4	24	17			22				81
SFU						156					40				
Sherbrooke		79	63	13	15						44				
SMU															32
StFX															27
Toronto		223	155	87	151	210			143	69	140	26			79
UBC	32	71	96	61	93	31	29	46		29	85	18		31	241
UBCO			24		6						18				
UNB		59	72	1	17			20			40		11	13	12
UNBC							35								
UOIT					32				5		61		16	30	
UPEI															14

UQAC			33	2	4			13			11				
UQAR					1						2			3	
UQAT					4						5				
UQO				7											
UQTR		2			9				42		9				
UVic				2	40						44		14		88
Waterloo		297	156	75	82		103	22			180		78	199	
Western		71	55	3	20						44		18	19	113
Windsor			61		42		20		26		74				19
York				20							12			9	
TOTAL	699	2,257	3,145	591	1,593	593	594	292	714	272	2,150	216	511	914	1,771

Undergraduate Degrees Awarded (UD)

Table UD.1.1 Total undergraduate degrees awarded by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	153	152	194	211	235
Chemical	1,161	1,278	1,307	1,292	1,297
Civil	2,235	2,325	2,751	2,688	2,772
Computer	568	630	686	573	713
Electrical	2,041	2,055	2,137	2,202	2,375
EngineeringPhysics	453	515	548	532	599
Environmental	229	258	300	360	337
Geological	128	121	164	152	192
Industrial or Manufacturing	350	369	361	440	527
Materials or Metallurgical	211	207	216	213	235
Mechanical	2,966	3,153	3,255	3,338	3,634
Mining or Mineral	222	237	220	280	307
Software	366	413	434	547	632
Other	678	669	790	908	702
Year One/Two Common Year				140	20
TOTAL	11,761	12,382	13,363	13,876	14,577

Table UD.1.2 Total undergraduate degrees awarded to female students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	153	76	87	101	97
Chemical	399	444	427	402	442
Civil	491	500	605	597	644
Computer	57	69	71	59	67
Electrical	248	259	283	330	335
Engineering Physics	86	76	92	93	115
Environmental	95	116	121	147	138
Geological	42	44	58	57	71
Industrial or Manufacturing	89	94	73	125	139
Materials or Metallurgical	51	58	43	53	51
Mechanical	282	324	344	357	391
Mining or Mineral	46	35	38	44	64
Software	42	39	43	57	57
Other	150	101	162	182	129
Year One/Two Common Year				33	1
TOTAL	2,231	2,235	2,447	2,637	2,741

Table UD.2.1 Total undergraduate degrees awarded by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	1,298	1,246	1,282	1,346	1,373

BC	1,126	1,161	1,278	1,324	1,519
MB	197	172	188	219	218
NB	240	270	320	308	307
NL	151	166	270	194	196
NS	469	397	477	722	338
ON	5,075	5,508	5,927	5,996	6,465
QC	2,850	3,043	3,202	3,370	3,676
SK	355	419	419	397	485
TOTAL	11,761	12,382	13,363	13,876	14,577

Table UD.2.2 Total undergraduate degrees awarded to female students by province: 2011 to 2015

Province	2011	2012	2013	2014	2015
AB	90	95	107	122	114
BC	91	110	109	140	197
MB	28	20	14	34	44
NB	38	45	57	70	71
NL	14	4	16	30	22
NS	64	44	65	108	56
ON	411	577	585	640	816
QC	271	327	353	424	421
SK	40	34	63	63	84
TOTAL	1,047	1,256	1,369	1,631	1,825

Table UD.2.3 Total undergraduate degrees awarded to foreign students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	90	95	107	122	114
BC	91	110	109	140	197
MB	28	20	14	34	44
NB	38	45	57	70	71
NL	14	4	16	30	22
NS	64	44	65	108	56
ON	411	577	585	640	816
QC	271	327	353	424	421
SK	40	34	63	63	84
TOTAL	1,047	1,256	1,369	1,631	1,825

Table UD.2.4 Total undergraduate degrees awarded by province and discipline: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK
Biosystems		33	14				138	40	10
Chemical	203	62		52		39	710	173	58
Civil	250	216	51	89	39	40	1,057	953	77
Computer	39	136	11	6	9	1	342	140	29
Electrical	267	256	44	48	29	57	1,050	592	32
Engineering Physics	21	168					330	67	13
Environmental		55				24	193	26	39
Geological		38		6			70	44	34
Industrial or Manufacturing						44	173	268	42
Materials or Metallurgical	42	48				8	81	56	
Mechanical	354	396	98	68	75	73	1,572	918	80
Mining or Mineral	38	45				32	112	80	
Software	41	26		6			283	267	9
Other	118	40		32	44		354	52	62
Year One/Two Common Year									
TOTAL	1,373	1,519	218	307	196	318	6,465	3,676	485

Table UD.2.5 Total undergraduate degrees awarded to women by province and discipline: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK
Biosystems		18	10				54	13	2
Chemical	75	18		13		9	237	75	15
Civil	82	50	13	19	17	3	224	219	17
Computer	5	17	2	2			28	10	3
Electrical	40	37	8	5	2	10	156	72	5
Engineering Physics	2	33					66	12	2
Environmental		20				16	72	16	14
Geological		14		5			30	12	10
Industrial or Manufacturing						11	51	72	5
Materials or Metallurgical	13	10				2	17	9	
Mechanical	54	36	9	5	13	9	162	97	6
Mining or Mineral	11	3				3	23	24	
Software	10	1					26	19	1
Other	27	8		4	10		69	6	5
Year One/Two Common Year						1			
TOTAL	319	265	42	53	42	64	1,215	656	85

Table UD.3.1 Total undergraduate degrees awarded by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Acadia				68	
Alberta	836	805	760	737	792
BCIT	36	41	52	54	71
Calgary	462	441	522	609	581
Carleton	395	401	427	453	530
Concordia	350	402	462	458	491
Conestoga	9	11	11	30	26
Dal	469	397	477	582	318
ETS	724	681	828	788	898
Guelph	95	87	104	220	212
Lakehead	223	282	302	283	298
Laurentian	118	132	249	83	78
Laval	347	327	300	300	441
Manitoba	197	172	188	219	218
McGill	456	513	487	546	574
McMaster	582	583	590	588	653
Moncton	30	45	67	71	49
MUN	151	166	270	194	196
NSAC				72	20
Ottawa	252	254	286	363	374
Polytechnique	583	659	686	790	780
Queen's	507	620	641	594	595
Regina	104	128	123	158	160
RMC	77	72	93	0	89
Ryerson	409	442	514	557	567
Saskatchewan	251	291	296	239	325
SFU	94	112	142	157	189
Sherbrooke	284	291	279	276	286
SMU				0	
Toronto	893	962	960	938	1,035
UBC	723	716	764	758	889
UBCO	103	118	142	145	151

UNB	210	225	253	237	258
UNBC	19	14	14	25	28
UOIT	158	196	228	239	262
UQAC	44	42	65	71	72
UQAM	4	9	9	6	
UQAR	15	14	16	16	16
UQAT	18	11	7	10	14
UQO	1	35	7	5	5
UQTR	24	59	56	104	99
UVic	151	160	164	185	191
Waterloo	950	990	1,082	1,113	1,194
Western	208	232	249	291	305
Windsor	184	222	191	221	218
York	15	22		23	29
TOTAL	11,761	12,382	13,363	13,876	14,577

Table UD.3.2 Total undergraduate degrees awarded to female students by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Acadia				16	
Alberta	186	150	159	141	176
BCIT	2	1	1	1	2
Calgary	116	109	131	136	143
Carleton	54	69	74	74	94
Concordia	51	63	88	96	92
Conestoga	0	1	1	5	1
Dal	108	80	101	125	63
ETS	68	54	90	65	83
Guelph	22	35	30	58	49
Lakehead	22	20	28	30	31
Laurentian	24	27	33	16	8
Laval	60	61	49	49	90
Manitoba	27	22	29	52	42
McGill	91	112	75	134	127
McMaster	98	100	104	111	101
Moncton	0	8	8	20	10
MUN	33	28	77	44	42
NSAC				17	1
Ottawa	44	40	57	70	82
Polytechnique	127	157	148	168	175
Queen's	120	154	170	159	170
Regina	34	29	23	36	22
RMC	14	4	11	0	9
Ryerson	54	80	92	112	112
Saskatchewan	42	65	69	47	63
SFU	14	13	12	21	37
Sherbrooke	51	35	46	40	46
SMU				0	
Toronto	175	227	207	237	236
UBC	152	135	128	141	185
UBCO	19	13	11	20	21
UNB	45	43	37	45	43
UNBC	10	7	8	10	10
UOIT	12	21	21	17	16
UQAC	2	6	8	10	5
UQAM	0	0	0	0	

UQAR	1	1	0	3	2
UQAT	1	1	2	1	3
UQO	0	4	2	0	0
UQTR	2	2	10	27	33
UVic	11	15	12	17	10
Waterloo	162	156	218	189	201
Western	48	49	48	48	64
Windsor	23	33	29	26	38
York	4	5		3	3
TOTAL	2,129	2,235	2,447	2,637	2,741

Table UD.3.3 Total undergraduate degrees awarded by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		122	163	39	123	21				42	191	38		53
BCIT			25		15						31			
Calgary		81	87		144						163		41	65
Carleton	17		125	24	104	8	61				88		21	82
Concordia			172	19	46				43		158		53	
Conestoga				6							20			
Dal		39	40	1	57		24		44	8	73	32		
ETS			277		216				75		232		98	
Guelph	50			21			70				71			
Lakehead		31	148		40						72		7	
Laurentian		24									32	22		
Laval	16	18	132	10	21	26	26	19	22	18	73	19	24	17
Manitoba	14		51	11	44						98			
McGill		69	99	26	142					38	149	23	28	
McMaster		99	110	24	136	38				34	142		70	
Moncton			19		8						16			6
MUN			39	9	29						75			44
NSAC														
Ottawa	27	76	111	20	46						71		23	
Polytechnique	24	49	172	49	65	41		23	73		150	38	64	32
Queen's		69	73	31	42	116		52			153	59		
Regina				17			30		42				9	62
RMC		8	24	18	11						16			12
Ryerson	44	40	96	27	101				70		114			75
Saskatchewan	10	58	77	12	32	13	9	34			80			
SFU						113					76			
Sherbrooke		34	68	27	58						99			
Toronto		94	136		267	168			84	47	208	31		
UBC	33	62	131	116	162	55	27	38		48	132	45		40
UBCO			60		16						75			
UNB		52	70	6	40			6			52		6	26
UNBC							28							
UOIT					62				4		135		16	45
UQAC			33	4	9			2			24			
UQAR					5						8			3
UQAT					8						6			
UQO				5										
UQTR		3			22				55		19			
UVic				20	63						82		26	
Waterloo		225	101	146	160		49	18			272		103	120
Western		44	75	9	31						90		43	13
Windsor			58		50		13		15		82			
York				16							6			7
TOTAL	235	1,297	2,772	713	2,375	599	337	192	527	235	3,634	307	632	702

Table UD.3.4 Total undergraduate degrees awarded to women by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		46	57	5	13	2				13	24	11		5
BCIT			1		1									
Calgary		29	25		27						30		10	22
Carleton	6		26	3	18	2	19				7		1	12
Concordia			47	1	7				13		19		5	
Conestoga											1			
Dal		9	3		10		16		11	2	9	3		
ETS			53		20				2		5		3	
Guelph	18						26				5			
Lakehead		10	18								3			
Laurentian		5										3		
Laval	4	9	24	1	1	8	16	4	6	3	7	1	4	2
Manitoba	10		13	2	8						9			
McGill		26	34	4	24					6	28	2	3	
McMaster		30	16	1	24	4				9	10		7	
Moncton			5		2						2			1
MUN			17		2						13			10
NSAC														
Ottawa	14	29	24	1	5						7		2	
Polytechnique	9	23	47	2	9	4		8	24		21	21	4	3
Queen's		33	26	7	4	26		25			36	13		
Regina				2			9		5				1	5
RMC		1	1	3	1						1			2
Ryerson	16	16	25		12				26		6			11
Saskatchewan	2	15	17	1	5	2	5	10			6			
SFU						30					7			
Sherbrooke		16	10	1	6						13			
Toronto		40	41		48	34			23	8	35	7		
UBC	18	18	34	17	31	3	10	14		10	19	3		8
UBCO			15		3						3			
UNB		13	14	2	3			5			3			3
UNBC							10							
UOIT					4						4		1	7
UQAC			4	1										
UQAR											1			1
UQAT					1						2			
UQO														
UQTR		1			4				27		1			
UVic					2						7		1	
Waterloo		56	20	11	20		22	5			27		10	30
Western		17	18		6						12		5	6
Windsor			9		14		5		2		8			
York				2										1
TOTAL	97	442	644	67	335	115	138	71	139	51	391	64	57	129

Post-graduate Enrolment (G)

Table G.1.1 Total full-time master's students: 2011 to 2015.

Year	2011	2012	2013	2014	2015
Cdn Male	5,034	4,818	4,654	4,001	4,259
Cdn Female	1,431	1,385	1,396	1,221	1,334
Visa Male	3,663	4,252	4,454	4,945	5,569
Visa Female	1,083	1,298	1,348	1,679	1,877
TOTAL	11,211	11,753	11,852	11,845	13,039

Table G.1.2 Total full-time doctoral students: 2011 to 2015.

Year	2011	2012	2013	2014	2015
Cdn Male	3,287	3,390	3,336	3,065	3,063
Cdn Female	876	966	1,089	1,000	989
Visa Male	2,802	3,227	3,287	3,615	4,018
Visa Female	763	894	997	1,076	1,149
TOTAL	7,728	8,477	8,709	8,756	9,219

Table G.1.3 Total part-time master's students: 2011 to 2015.

Year	2011	2012	2013	2014	2015
Cdn Male	1,991	1,978	1,790	1,290	1,190
Cdn Female	444	554	498	395	324
Visa Male	202	132	204	203	228
Visa Female	42	40	47	64	70
Total	2,679	2,704	2,539	1,952	1,812

Table G.1.4 Total part-time doctoral students: 2011 to 2015.

Year	2011	2012	2013	2014	2015
Cdn Male	373	311	285	239	255
Cdn Female	69	51	59	52	56
Visa Male	45	36	39	34	34
Visa Female	6	6	2	9	6
Total	493	404	385	334	351

Table G.1.5 Total full-time equivalent master's students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	442	382	378	415	431
Chemical	1,082	1,099	1,026	910	989
Civil	2,068	2,060	1,875	1,843	2,064
Computer	337	322	439	337	402
Electrical	3,014	3,432	3,420	3,412	3,645
Engineering Physics	167	202	184	202	203
Environmental	270	268	296	352	360
Geological	20	19	18	16	16
Industrial or Manufacturing	403	392	427	449	415
Materials or Metallurgical	224	246	261	242	239
Mechanical	1,958	2,083	2,110	2,148	2,517
Mining or Mineral	160	160	148	188	211
Software	177	203	284	297	344
Other	1,805	1,826	1,856	1,836	1,878
TOTAL	12,127	12,694	12,722	12,646	13,714

Table G.1.6 Total full-time equivalent doctoral students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	400	325	429	448	483
Chemical	870	1,076	1,007	958	966
Civil	1,191	1,282	1,292	1,334	1,423
Computer	157	156	145	149	199
Electrical	2,230	2,445	2,354	2,406	2,423
Engineering Physics	174	211	219	227	247
Environmental	97	99	136	116	126
Geological	7	8	11	6	2
Industrial or Manufacturing	224	176	185	185	214
Materials or Metallurgical	273	375	359	366	362
Mechanical	1,340	1,495	1,631	1,608	1,661
Mining or Mineral	102	101	100	119	124
Software	18	18	27	51	17
Other	894	863	958	928	1,134
TOTAL	7,977	8,630	8,853	8,901	9,381

Table G.1.7 Total full-time equivalent female master's students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	191	169	152	164	171
Chemical	337	383	358	321	370
Civil	570	543	505	489	566
Computer	62	58	56	68	83
Electrical	539	671	721	789	840
Engineering Physics	41	43	42	45	44
Environmental	91	110	134	162	162
Geological	8	9	7	5	4
Industrial or Manufacturing	103	113	114	112	98
Materials or Metallurgical	74	73	77	68	66
Mechanical	250	267	276	328	383
Mining or Mineral	48	42	35	47	53
Software	28	36	54	66	86
Other	347	370	401	412	426
TOTAL	2,689	2,887	2,932	3,076	3,352

Table G.1.8 Total full-time equivalent female doctoral students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	153	122	160	161	174
Chemical	278	346	351	327	316
Civil	264	309	317	337	350
Computer	44	42	36	33	46
Electrical	370	407	427	452	456
Engineering Physics	25	41	47	52	55
Environmental	25	34	51	44	52
Geological	2	2	3	2	1
Industrial or Manufacturing	37	39	39	42	53
Materials or Metallurgical	60	99	99	106	121
Mechanical	218	253	347	278	264
Mining or Mineral	26	26	26	36	36

Software	3	2	4	9	2
Other	175	162	204	226	250
TOTAL	1,680	1,884	2,111	2,105	2,176

Table G.1.9 Total full-time equivalent visa master's students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	125	114	130	117	127
Chemical	446	523	398	492	533
Civil	644	681	701	708	849
Computer	156	164	203	184	234
Electrical	1,498	1,892	1,904	2,200	2,390
Engineering Physics	52	61	67	61	73
Environmental	104	118	132	185	185
Geological	1	3	6	5	4
Industrial or Manufacturing	183	170	218	247	236
Materials or Metallurgical	95	107	124	109	103
Mechanical	635	816	913	1,056	1,352
Mining or Mineral	68	71	73	85	99
Software	71	95	184	231	258
Other	747	803	858	1,056	1,132
TOTAL	4,825	5,618	5,911	6,736	7,575

Table G.1.10 Total full-time equivalent visa doctoral students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	124	101	161	175	188
Chemical	444	555	481	523	552
Civil	504	583	613	678	738
Computer	68	74	80	76	113
Electrical	1,030	1,194	1,209	1,328	1,422
Engineering Physics	54	83	98	108	127
Environmental	37	46	61	63	62
Geological	3	2	5	1	2
Industrial or Manufacturing	96	86	100	98	113
Materials or Metallurgical	160	219	199	218	229
Mechanical	636	734	786	872	955
Mining or Mineral	51	48	49	61	65
Software	8	7	11	17	5
Other	377	408	450	494	641
TOTAL	3,592	4,140	4,303	4,712	5,212

G.2.1 Total full-time equivalent master's students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	2,013	1,578	1,307	1,071	1,214
BC	892	851	848	857	1,065
MB	187	214	228	248	245
NB	187	180	171	133	151
NL	231	277	267	298	300
NS	356	335	418	389	367
ON	4,506	4,814	5,343	5,296	5,503
QC	3,465	4,123	3,799	4,023	4,479

SK	290	323	344	332	391
TOTAL	12,127	12,695	12,725	12,647	13,715

Table G.2.2 Total full-time equivalent doctoral students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	1,241	1,233	1,141	1,081	1,101
BC	818	885	895	884	1,039
MB	205	213	214	214	240
NB	106	114	111	86	76
NL	86	100	127	151	165
NS	144	91	113	123	144
ON	2,965	3,103	3,294	3,394	3,423
QC	2,218	2,701	2,751	2,768	2,858
SK	197	190	206	200	337
TOTAL	7,980	8,630	8,852	8,901	9,383

Table G.2.3 Total full-time equivalent female master's students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	439	416	361	325	360
BC	220	196	194	197	243
MB	40	49	57	67	61
NB	35	34	35	24	41
NL	50	69	72	69	63
NS	45	44	61	62	78
ON	1,008	1,077	1,212	1,302	1,378
QC	757	910	847	943	1,029
SK	93	91	95	87	100
TOTAL	2,687	2,886	2,934	3,076	3,353

Table G.2.4 Total full-time equivalent female doctoral students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	260	269	332	276	255
BC	165	183	188	190	200
MB	34	39	42	44	50
NB	27	31	34	21	17
NL	14	16	23	32	34
NS	28	21	29	28	33
ON	624	674	743	766	792
QC	486	601	667	688	714
SK	42	48	53	60	83
TOTAL	1,680	1,882	2,112	2,104	2,177

Table G.2.5 Total full-time equivalent visa master's students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	906	801	610	622	656
BC	399	427	459	502	665

MB	88	109	123	135	134
NB	93	88	87	68	60
NL	163	217	205	245	264
NS	225	247	294	268	255
ON	1,367	1,759	1,983	2,474	2,737
QC	1,401	1,756	1,916	2,183	2,538
SK	183	212	236	241	267
TOTAL	4,825	5,617	5,912	6,737	7,576

Table G.2.6 Total full-time equivalent visa doctoral students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	620	696	485	719	721
BC	477	522	534	536	643
MB	100	114	123	135	148
NB	65	74	77	57	27
NL	45	56	80	105	125
NS	57	40	48	64	67
ON	1,050	1,163	1,358	1,454	1,586
QC	1,061	1,348	1,452	1,503	1,710
SK	116	127	143	139	187
TOTAL	3,591	4,139	4,300	4,712	5,213

Table G.2.7 Total full-time equivalent postgraduate student enrolment by province and discipline: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
Biosystems	76	185	63	2		43	340	118	87	914
Chemical	539			43		28	899	405	41	1,956
Civil	414	413	108	35	43	56	1,282	1,137		3,487
Computer	71	1			70		246	159	55	601
Electrical	356	663	172	53	52	84	2,822	1,765	100	6,068
Engineering Physics	104	113				15	77	141		451
Environmental		17			25	15	207	145	76	486
Geological		3					15			18
Industrial or Manufacturing			57			32	72	415	52	629
Materials or Metallurgical	90	91				19	171	230		601
Mechanical	404	535	86	36	52	48	1,824	1,093	100	4,179
Mining or Mineral	95	82				7	78	73		335
Software							40	310	12	361
Other	167			57	223	163	853	1,345	204	3,012

Table G.2.8 Total full-time equivalent female postgraduate student enrolment by province and discipline: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
Biosystems	33	57	20	1		16	141	52	26	345
Chemical	164			18		6	335	146	17	686
Civil	135	90	30	8	11	23	329	290		916
Computer	15	0			12		59	32	11	129
Electrical	85	132	41	12	13	13	611	373	17	1,297
Engineering Physics	25	27				2	13	32		99
Environmental		6			15	6	94	59	35	214
Geological		1					4			5
Industrial or Manufacturing			10			10	12	109	11	151

Materials or Metallurgical	26	32				4	47	77		187
Mechanical	72	70	10	6	5	7	306	150	20	647
Mining or Mineral	19	26				1	19	24		89
Software							8	78	2	88
Other	41			13	43	21	192	322	44	677

Table G.3.1 Total full-time postgraduate students by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Alberta	1,541	1,495	1,493	1,344	1,317
Calgary	1,519	1,223	898	788	998
Carleton	572	669	717	727	757
Concordia	1,517	1,677	1,752	1,879	2,102
Dal	491	415	520	487	489
ETS	804	1,161	918	1,116	1,249
Guelph	125	132	128	155	161
Lakehead	46	48	41	56	74
Laurentian	38	55	31	50	37
Laval	490	487	531	531	494
Manitoba	378	414	429	452	477
McGill	579	1,081	969	842	846
McMaster	643	581	706	697	736
Moncton	13	15	15	10	18
MUN	290	348	363	423	465
NSAC					
Ottawa	466	608	810	918	904
Polytechnique	1,259	1,273	1,288	1,314	1,400
Queen's	450	433	446	471	467
Regina	173	170	182	188	231
RMC	112	96	88	92	95
Ryerson	582	718	707	551	584
Saskatchewan	300	324	342	324	425
SFU	211	207	190	194	181
Sherbrooke	482	523	492	485	540
SMU				2	7
Toronto	1,450	1,549	1,688	1,839	1,900
UBC	1,072	1,068	1,074	1,037	984
UBCO	130	140	142	164	549
UNB	226	234	221	166	163
UOIT	151	142	214	158	174
UQAC	134	117	147	94	211
UQAM				18	
UQAR	16	19	15	22	25
UQAT	47	38	23	28	29
UQTR	92	101	110	117	125
UVic	257	306	324	304	337
Waterloo	1,244	1,293	1,339	1,290	1,261
Western	566	556	574	582	708
Windsor	456	510	628	670	717
York			6	17	24

Table G.3.2 Total part-time postgraduate students by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
--------------------	-------------	-------------	-------------	-------------	-------------

Alberta	0	0	0	0	0
Calgary	274	234	158	33	0
Carleton	171	162	139	140	128
Concordia	104	100	87	107	136
Dal	26	17	12	40	13
ETS	450	331	364	387	365
Guelph	37	35	27	28	24
Lakehead	0	0	1	0	0
Laurentian	8	0	26	0	1
Laval	49	55	41	39	42
Manitoba	49	45	43	37	31
McGill	12	58	0	48	56
McMaster	481	464	453	107	85
Moncton	2	0	0	9	6
MUN	53	55	58	76	76
NSAC				0	
Ottawa	99	110	101	109	131
Polytechnique	88	109	112	114	127
Queen's	38	58	50	35	34
Regina	28	38	41	38	39
RMC	17	20	17	23	25
Ryerson	107	93	150	79	72
Saskatchewan	0	0	0	0	0
SFU	9	8	14	18	27
Sherbrooke	171	153	145	0	0
SMU				0	0
Toronto	192	214	201	168	146
UBC	36	33	26	105	105
UBCO	0	0	0	0	2
UNB	51	44	41	42	45
UOIT	32	50	63	61	72
UQAC	0	0	0	5	0
UQAM				0	
UQAR	0	0	2	0	1
UQAT	0	0	0	2	2
UQTR	21	139	114	76	38
UVic	0	0	0	0	0
Waterloo	397	405	375	304	278
Western	151	55	37	27	29
Windsor	15	19	23	28	23
York			2	3	4
TOTAL	3,167	3,104	2,924	2,286	2,163

Table G.3.3 Total full-time female postgraduate students by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Alberta	359	365	438	378	347
Calgary	303	301	246	219	268
Carleton	110	137	152	163	177
Concordia	321	363	391	440	489
Dal	72	65	88	89	108
ETS	148	223	186	270	293
Guelph	29	29	30	43	49
Lakehead	5	10	4	9	14

Laurentian	7	9	3	10	8
Laval	101	99	116	116	127
Manitoba	71	85	97	108	109
McGill	128	235	206	194	197
McMaster	164	164	194	186	189
Moncton	3	1	2	2	4
MUN	61	79	89	97	98
NSAC				-	
Ottawa	104	135	203	252	245
Polytechnique	351	361	379	380	378
Queen's	112	97	100	104	104
Regina	40	45	53	55	52
RMC	25	17	17	15	15
Ryerson	99	117	115	117	133
Saskatchewan	92	88	89	86	107
SFU	41	40	41	45	46
Sherbrooke	85	88	83	87	88
SMU				-	-
Toronto	369	405	440	492	527
UBC	261	256	262	261	258
UBCO	28	30	23	20	68
UNB	52	59	56	34	44
UOIT	22	21	41	33	38
UQAC	33	26	40	29	66
UQAM				2	
UQAR	2	2	1	2	3
UQAT	5	6	4	4	5
UQTR	18	17	28	26	29
UVic	43	49	53	53	60
Waterloo	284	290	303	292	286
Western	116	137	146	152	190
Windsor	79	89	110	105	126
York			1	5	7
TOTAL	4,143	4,541	4,829	4,975	5,350

Table G.3.4 Total part-time female postgraduate students by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Alberta	0	0	0	0	0
Calgary	39	47	24	6	0
Carleton	34	29	24	31	30
Concordia	22	19	13	18	23
Dal	3	1	3	1	2
ETS	77	67	80	90	80
Guelph	6	8	11	12	8
Lakehead	0	0	0	0	0
Laurentian	1	0	4	0	0
Laval	13	14	6	8	7
Manitoba	11	13	8	8	5
McGill	2	12	0	6	9
McMaster	81	77	74	23	11
Moncton	0	0	0	2	2
MUN	6	11	11	13	9
NSAC				0	

Ottawa	19	18	20	27	32
Polytechnique	20	28	30	40	43
Queen's	8	13	11	6	6
Regina	6	12	10	10	9
RMC	5	4	0	7	6
Ryerson	8	7	19	14	11
Saskatchewan	0	0	0	0	0
SFU	1	1	1	2	4
Sherbrooke	36	31	32	0	0
SMU				0	0
Toronto	37	47	47	38	28
UBC	11	10	8	28	30
UBCO	0	0	0	0	0
UNB	7	4	10	10	10
UOIT	4	9	12	8	11
UQAC	0	0	0	3	0
UQAM				0	
UQAR	0	0	1	0	0
UQAT	0	0	0	0	0
UQTR	2	81	64	44	18
UVic	0	0	0	0	0
Waterloo	77	83	70	56	53
Western	21	3	11	6	8
Windsor	2	2	2	2	2
York			1	2	1
TOTAL	560	651	607	520	456

Table G.3.5 Total full-time postgraduate students by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		217	278	71	168	104				90	225	95		69
Calgary	76	322	136		188						179			98
Carleton	13		117	11	365		29			3	80			139
Concordia			453		797				124		339		262	127
Dal	42	28	51		81	8	15		29	19	47	7		161
ETS			90		126		78		38		92		25	800
Guelph	29			48			74				11			
Lakehead			3		43		14				14			
Laurentian												37		
Laval		72	95		107		37			62	109	11		1
Manitoba	63		105		168				57		86			
McGill	13	93	111		303					141	185			
McMaster	51	75	62	83	139	58			2	59	108		37	62
Moncton														18
MUN			43	70	52		25				52			223
Ottawa	20	91	143		348		52				128			122
Polytechnique	104	137	171	155	173	141			179	23	194	61		61
Queen's		71	91		115	19		15			119	37		

Regina				43			42		34			9	102	
RMC		24	19		36						9		7	
Ryerson		29	105	84	176						121		68	
Saskatchewan	87	41			100		7				100		89	
SFU						92					90			
Sherbrooke		70	164		148						145		13	
SMU						7								
Toronto	223	230	260		493					74	468		153	
UBC	178		160		304		17	3		91	155	76		
UBCO			245		180						124			
UNB	1	37	25		43						29		28	
UOIT					75						72		27	
UQAC							22						189	
UQAR													25	
UQAT													29	
UQTR		28			56				42					
UVic				1	175						162			
Waterloo		187	183		418						259		214	
Western		191	181		209						127			
Windsor			61		289		27		68	33	238			
York			4	14							7			
TOTAL	901	1,942	3,356	579	5,874	428	440	18	572	595	4,074	324	333	2,825

Table G.3.6 Total part-time postgraduate students by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta													
Calgary	0	6	8		8					6			5
Carleton	5		30	1	71		6		1	7			19
Concordia			19		37			3		9		20	19
Dal	3		2		3	1		2	1	1			27
ETS			49		38		16	7		25		22	231
Guelph	2			7			18			1			
Lakehead													
Laurentian													
Laval			13		10		1	2	1	2			10
Manitoba	2		15		17			4					
McGill		1	9		8				4	26			
McMaster	1	2	12		17	17			5	17		8	28
Moncton													9
MUN			8	3	13		1			9			44
NSAC													
Ottawa	1	6	19		37		6			10			30
Polytechnique	1	4	19	7	7	0		53		7	1		15
Queen's		1	9		7	1				7	11		
Regina				9			9	8				3	9
RMC		8	2		12								1

Ryerson		2	15	8	30					19			5	
Saskatchewan														
SFU					18									
Sherbrooke														
SMU														
Toronto	0	12	33		54				2	61			5	
UBC	19		26		17	-12	5	4	1	13	20			
UBCO														
UNB	2	7	14		6					4			10	
UOIT					15					20			26	
UQAC													5	
UQAM														
UQAR														
UQAT													2	
UQTR		4			10			62						
UVic														
Waterloo		19	32		129					50			73	
Western		4	9		2			3		8				
Windsor			7		6		1	2	3	9				
York				3										
TOTAL	36	75	350	38	552	25	62	4	145	17	311	32	54	574

Table G.3.7 Total full-time female postgraduate students by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		86	92	13	38	11				26	49	20		43
Calgary	27	66	31		48						21			26
Carleton	7		17	3	80		20			2	10			24
Concordia			112		192			16			37		60	23
Dal	13	3	22		9	3	3	8	4	7				15
ETS			12		20		28	4		17		4		185
Guelph	8			10			25			0				
Lakehead					3		6							
Laurentian												10		
Laval		23	17		16		17			15	25	3		
Manitoba	20		25		39			15			11			
McGill		31	38		56					37	32			
McMaster	22	22	16		44	13				20	23		7	19
Moncton														2
MUN			10	11	14		12				3			46
NSAC														
Ottawa	9	38	25		102		25				23			31
Polytechnique	54	56	55	27	32	36		58	4	32	18			8
Queen's		24	23		22	2		4		21	8			
Regina				7			21	11					0	16
RMC		6	4		2					2				1
Ryerson		9	25	20	36					19				8

Saskatchewan	20	17			12		3				15			19
SFU						24					21			
Sherbrooke		18	32		22						12			3
SMU														
Toronto	84	92	87		90					20	94			26
UBC	59		42		73	-6	7	2		37	20	21		
UBCO			11		7						3			
UNB		16	2		5						4			6
UOIT					20						7			6
UQAC							18							11
UQAM					2									
UQAR														2
UQAT														4
UQTR		12			8				6					
UVic				1	37						15			
Waterloo		55	48		86						40			62
Western		64	39		37						13			
Windsor			4		56		10		12	7	16			
York				5										
TOTAL	322	637	789	97	1207	83	195	6	131	172	592	81	71	586

Table G.3.8 Total part-time female postgraduate enrolment by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta														
Calgary		2	2		1					1				
Carleton	3		4	1	18	3			1				1	
Concordia			4		7					2		2	3	
Dal					0								1	
ETS			11		5	9		1		9		2	53	
Guelph	1			2		9								
Lakehead														
Laurentian														
Laval			5		2					1				
Manitoba			5		3			1						
McGill		1	1		1				0	2				
McMaster			3		1	6				2		2	9	
Moncton													2	
MUN			2	1	1		1			2			5	
NSAC														
Ottawa	0	3	5		8	2				0			8	
Polytechnique	0	2	8	2	1			23		1	1		1	
Queen's			2			0				1	2			
Regina				1		4		2				1	2	
RMC		5			1								1	

Ryerson	2	2	1	4					4		2			
Saskatchewan														
SFU					2									
Sherbrooke														
SMU														
Toronto		6	11		6				1	12		2		
UBC	7		9		4	-6	1	2	1	1	3			
UBCO														
UNB		3	3		2							1		
UOIT					2					1		5		
UQAC												3		
UQAM														
UQAR														
UQAT														
UQTR		0			1				43					
UVic														
Waterloo		5	8		14					6		23		
Western			5		1					0				
Windsor			0						1	1				
York				2										
TOTAL	12	29	90	10	84	2	29	2	70	5	45	6	7	123

Post-graduate Degrees Awarded (GD)

Table GD.1.1 Total master's degrees awarded by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	135	131	186	153	159
Chemical	338	408	424	469	463
Civil	709	891	879	902	874
Computer	140	164	183	168	185
Electrical	1,143	1,354	1,441	1,619	1,539
Engineering Physics	81	76	75	64	61
Environmental	92	134	129	152	180
Geological	11	9	8	9	11
Industrial or Manufacturing	151	172	236	237	268
Materials or Metallurgical	76	97	97	119	93
Mechanical	784	905	834	950	1,062
Mining or Mineral	33	66	88	56	83
Software	50	65	88	124	149
Other	718	747	828	945	1,126
TOTAL	4,461	5,219	5,496	5,978	6,253

Table GD.1.2 Total doctoral degrees awarded by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	44	41	60	50	66
Chemical	125	165	169	185	174
Civil	147	170	187	171	213
Computer	17	25	22	28	32
Electrical	311	330	389	384	368
Engineering Physics	33	38	43	48	34
Environmental	11	16	14	18	20
Geological	2	1	0	1	7

Industrial or Manufacturing	15	18	24	27	31
Materials or Metallurgical	45	52	48	71	49
Mechanical	189	191	236	260	264
Mining or Mineral	13	6	29	14	18
Software	3	0	3	3	3
Other	84	109	106	124	146
TOTAL	1,039	1,162	1,330	1,389	1,425

Table GD.1.3 Total master's degrees awarded to women by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	59	63	74	66	63
Chemical	120	131	145	180	167
Civil	201	253	214	247	235
Computer	27	41	31	35	45
Electrical	203	241	305	354	363
Engineering Physics	19	22	16	14	14
Environmental	26	39	48	69	77
Geological	3	6	2	4	4
Industrial or Manufacturing	39	47	104	71	99
Materials or Metallurgical	17	32	30	39	26
Mechanical	111	126	105	132	146
Mining or Mineral	15	18	16	17	17
Software	14	16	15	23	40
Other	140	131	170	195	238
TOTAL	994	1,166	1,275	1,453	1,534

Table GD.1.4 Total doctoral degrees awarded to women by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	17	17	25	16	21
Chemical	36	50	39	65	61
Civil	43	39	32	31	49
Computer	6	10	6	7	3
Electrical	40	54	45	54	60
Engineering Physics	5	3	4	8	11
Environmental	6	3	3	4	4
Geological	1	1	0	0	1
Industrial or Manufacturing	2	1	3	7	9
Materials or Metallurgical	9	13	10	21	15
Mechanical	20	18	34	49	49
Mining or Mineral	6	2	5	1	3
Software	2	0	2	2	0
Other	15	28	12	23	28
TOTAL	208	239	220	288	314

Table GD.1.5 Total master's degrees awarded to visa students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	33	32	61	61	50
Chemical	106	183	156	248	264
Civil	200	320	269	328	354

Computer	40	76	74	99	95
Electrical	482	724	756	1,031	966
Engineering Physics	22	25	24	20	22
Environmental	34	48	69	78	107
Geological	2	0	2	2	2
Industrial or Manufacturing	70	75	83	114	120
Materials or Metallurgical	35	47	48	52	39
Mechanical	264	325	314	436	530
Mining or Mineral	11	36	38	37	47
Software	19	26	51	75	118
Other	305	340	426	551	723
TOTAL	1,623	2,257	2,371	3,141	3,437

Table GD.1.6 Total doctoral degrees awarded to visa students by discipline: 2011 to 2015.

Discipline	2011	2012	2013	2014	2015
Biosystems	3	3	13	11	15
Chemical	42	45	56	56	65
Civil	23	33	35	48	84
Computer	5	7	6	10	12
Electrical	55	89	110	122	137
Engineering Physics	6	9	11	18	13
Environmental	6	3	4	9	11
Geological	0	0	0	0	4
Industrial or Manufacturing	2	6	5	10	12
Materials or Metallurgical	11	14	20	28	20
Mechanical	47	36	60	96	97
Mining or Mineral	3	1	9	5	5
Software	0	0	2	2	1
Other	21	33	31	44	72
TOTAL	224	279	362	463	548

Table GD.2.1 Total master's degrees awarded by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	505	644	460	494	433
BC	344	404	340	317	345
MB	45	62	62	74	89
NB	59	65	50	67	24
NL	68	79	103	120	131
NS	114	128	173	217	341
ON	2,173	2,323	2,652	2,905	3,057
QC	1,053	1,394	1,537	1,644	1,689
SK	100	120	119	140	144
TOTAL	4,461	5,219	5,496	5,978	6,253

Table GD.2.2 Total doctoral degrees awarded by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	130	154	203	221	153
BC	106	98	126	111	116
MB	27	39	28	29	27
NB	6	13	18	16	11

NL	10	7	12	14	19
NS	14	11	16	18	19
ON	463	500	552	520	619
QC	259	313	354	425	425
SK	24	27	21	35	36
TOTAL	1,039	1,162	1,330	1,389	1,425

Table GD.2.3 Total master's degrees awarded to women by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	112	159	106	145	116
BC	111	101	87	75	70
MB	11	15	14	14	21
NB	10	9	12	17	5
NL	11	19	28	28	34
NS	16	24	27	26	40
ON	474	496	578	732	755
QC	221	308	389	370	451
SK	28	35	34	46	42
TOTAL	994	1,166	1,275	1,453	1,534

Table GD.2.4 Total doctoral degrees awarded to women by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	25	35	31	44	35
BC	18	16	27	25	20
MB	3	4	4	6	3
NB	1	2	3	4	3
NL	2	0	2	3	0
NS	2	1	5	4	4
ON	100	118	90	103	143
QC	54	57	51	90	100
SK	3	6	7	9	6
TOTAL	208	239	220	288	314

Table GD.2.5 Total master's degrees awarded to visa students by province: 2011 to 2015.

Province	2011	2012	2013	2014	2015
AB	246	373	215	279	242
BC	161	174	164	142	177
MB	22	23	28	48	46
NB	28	39	31	35	20
NL	56	59	87	103	113
NS	80	84	137	173	284
ON	578	800	946	1,398	1,532
QC	386	634	676	862	908
SK	66	71	87	101	115
TOTAL	1,623	2,257	2,371	3,141	3,437

Table GD.2.6 Total doctoral degrees awarded to visa students by province: 2011 to 2015.

Province 2011 2012 2013 2014 2015

AB	26	44	66	84	77
BC	32	39	46	57	64
MB	3	8	5	9	12
NB	2	8	12	7	7
NL	4	4	3	8	5
NS	3	2	3	5	5
ON	73	98	106	134	190
QC	73	67	110	133	167
SK	8	9	11	26	21
TOTAL	224	279	362	463	548

Table GD.2.7 Total master's degrees awarded by province and discipline: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	TOTAL
Biosystems	13	31	16			11	58	23	7	159
Chemical	146			2		5	257	46	7	463
Civil	74	73	27		5	9	396	277	13	874
Computer	21	3			17		108	17	19	185
Electrical	61	72	22	4	7	21	880	455	17	1,539
Engineering Physics	6	19				1	20	15		61
Environmental		20			23	6	77	33	21	180
Geological		9					2			11
Industrial or Manufacturing			17			4	39	197	11	268
Materials or Metallurgical	1	6				5	55	26		93
Mechanical	68	87	7	9	4	19	630	222	16	1,062
Mining or Mineral	13	25					30	15		83
Software							16	126	7	149
Other	30			9	75	260	489	237	26	1,126
TOTAL	433	345	89	24	131	341	3,057	1,689	144	6,253

Table GD.2.8 Total doctoral degrees awarded by province and discipline: 2015.

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	TOTAL
Biosystems	2	8	3			3	28	14	8	66
Chemical	39			2			87	43	3	174
Civil	34	9	4	1	5	4	104	52		213
Computer	1	5			1		16	9		32
Electrical	21	36	8	4	5	5	177	106	6	368
Engineering Physics	4	10				1	6	13		34
Environmental							9	7	4	20
Geological							7			7
Industrial or Manufacturing			12			1	3	11	4	31
Materials or Metallurgical		7					19	23		49
Mechanical	23	39		2	2	3	115	71	9	264
Mining or Mineral	8	2				2	5	1		18
Software							3			3
Other	21			2	6		40	75	2	146
TOTAL	153	116	27	11	19	19	619	425	36	1,425

Table GD.3.1 Total master's degrees awarded by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Acadia				0	
Alberta	334	329	281	279	239
BCIT	0	0	0	0	0
Calgary	171	315	179	215	194
Carleton	147	177	193	230	251
Concordia	400	534	572	626	667
Conestoga	0	0	0	0	0
Dal	114	128	173	205	341
ETS	178	239	259	293	385
Guelph	40	46	44	44	46
Lakehead	20	14	16	0	8
Laurentian	0	0	61	0	11
Laval	76	75	70	70	60
Manitoba	45	62	62	74	89
McGill	35	122	157	124	153
McMaster	250	225	255	230	250
Moncton	8	1	2	4	0
MUN	68	79	103	120	131
NSAC				11	0
Ottawa	128	165	241	465	414
Polytechnique	254	281	281	334	222
Queen's	92	103	113	106	118
Regina	36	49	60	76	83
RMC	0	26	22	19	16
Ryerson	247	231	295	189	176
Saskatchewan	64	71	59	64	61
SFU	40	37	38	28	31
Sherbrooke	86	61	65	90	91
SMU				1	
Toronto	401	482	496	540	631
UBC	237	300	251	237	237
UBCO	38	22	20	24	37
UNB	51	64	48	63	24
UNBC	0	0	0	0	0
UOIT	67	47	30	36	39
UQAC	11	22	8	12	8
UQAM	0	0	0	5	
UQAR	5	7	8	2	5
UQAT	5	13	19	10	5
UQO	0	0	0	0	0
UQTR	3	40	98	78	93
UVic	29	45	31	28	40
Waterloo	452	415	502	486	480
Western	132	175	131	187	217
Windsor	195	217	253	373	396
York	2	0		0	4
TOTAL	4,461	5,219	5,496	5,978	6,253

Table GD.3.2 Total doctoral degrees awarded by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
--------------------	-------------	-------------	-------------	-------------	-------------

Acadia				0	
Alberta	71	78	111	126	83
BCIT	0	0	0	0	0
Calgary	59	76	92	95	70
Carleton	28	23	36	30	36
Concordia	49	70	60	53	56
Conestoga	0	0	0	0	0
Dal	14	11	16	13	19
ETS	29	41	35	44	58
Guelph	2	4	9	7	12
Lakehead	0	0	0	0	0
Laurentian	0	0	31	0	3
Laval	42	24	33	33	40
Manitoba	27	39	28	29	27
McGill	26	59	100	120	106
McMaster	52	66	40	36	65
Moncton	0	0	0	0	0
MUN	10	7	12	14	19
NSAC				5	0
Ottawa	24	28	21	39	25
Polytechnique	80	80	88	117	95
Queen's	30	35	46	36	52
Regina	7	13	7	17	10
RMC	0	8	4	6	3
Ryerson	21	25	42	39	44
Saskatchewan	17	14	14	18	26
SFU	8	13	12	12	24
Sherbrooke	25	25	27	42	48
SMU				0	
Toronto	106	115	106	110	152
UBC	82	67	93	67	50
UBCO	2	1	7	7	15
UNB	6	13	18	16	11
UNBC	0	0	0	0	0
UOIT	2	6	10	16	14
UQAC	8	9	5	9	14
UQAM	0	0	0	0	
UQAR	0	0	0	0	0
UQAT	0	0	0	0	0
UQO	0	0	0	0	0
UQTR	0	5	6	7	8
UVic	14	17	14	25	27
Waterloo	116	115	134	125	150
Western	55	58	53	50	40
Windsor	27	17	20	26	23
York	0	0		0	0
TOTAL	1,039	1,162	1,330	1,389	1,425

Table GD.3.3 Total master's degrees awarded to women by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Acadia				0	
Alberta	66	87	63	81	66
BCIT	0	0	0	0	0

Calgary	46	72	43	64	50
Carleton	36	34	31	51	56
Concordia	88	104	129	124	179
Conestoga	0	0	0	0	0
Dal	16	24	27	19	40
ETS	29	49	39	54	85
Guelph	10	12	11	11	16
Lakehead	3	3	2	0	1
Laurentian	0	0	8	0	1
Laval	12	17	20	20	17
Manitoba	11	15	14	14	21
McGill	5	23	53	31	32
McMaster	48	56	67	90	72
Moncton	0	0	0	0	0
MUN	11	19	28	28	34
NSAC				7	0
Ottawa	23	28	57	125	123
Polytechnique	68	84	74	87	68
Queen's	20	29	32	30	26
Regina	6	7	13	26	26
RMC	0	6	4	2	1
Ryerson	42	39	39	40	41
Saskatchewan	22	28	21	20	16
SFU	13	9	8	5	6
Sherbrooke	14	12	12	10	12
SMU				0	
Toronto	104	107	125	146	164
UBC	83	76	62	60	49
UBCO	6	3	11	6	6
UNB	10	9	12	17	5
UNBC	0	0	0	0	0
UOIT	11	2	5	5	9
UQAC	4	3	0	4	1
UQAM	0	0	0	0	
UQAR	1	0	0	0	0
UQAT	0	0	3	0	0
UQO	0	0	0	0	0
UQTR	0	16	59	40	57
UVic	9	13	6	4	9
Waterloo	108	108	123	112	129
Western	34	39	30	53	64
Windsor	35	33	44	67	50
York	0	0		0	2
TOTAL	994	1,166	1,275	1,453	1,534

Table GD.3.4 Total doctoral degrees awarded to women by institution: 2011 to 2015.

Institution	2011	2012	2013	2014	2015
Acadia				0	
Alberta	16	18	16	22	22
BCIT	0	0	0	0	0
Calgary	9	17	15	22	13
Carleton	7	7	3	1	6
Concordia	7	8	9	12	8

Conestoga	0	0	0	0	0
Dal	2	1	5	4	4
ETS	5	8	3	7	12
Guelph	1	0	1	1	1
Lakehead	0	0	0	0	0
Laurentian	0	0	3	0	1
Laval	9	5	0	0	9
Manitoba	3	4	4	6	3
McGill	3	12	14	30	26
McMaster	16	20	9	8	13
Moncton	0	0	0	0	0
MUN	2	0	2	3	0
NSAC				0	0
Ottawa	5	10	4	5	3
Polytechnique	20	14	20	32	25
Queen's	7	8	6	6	11
Regina	3	4	3	5	3
RMC	0	1	0	2	2
Ryerson	3	4	8	9	11
Saskatchewan	0	2	4	4	3
SFU	1	1	0	4	5
Sherbrooke	5	6	3	7	14
SMU				0	
Toronto	19	31	20	23	45
UBC	16	12	24	17	9
UBCO	0	0	0	0	2
UNB	1	2	3	4	3
UNBC	0	0	0	0	0
UOIT	0	1	0	5	2
UQAC	5	4	1	1	5
UQAM	0	0	0	0	
UQAR	0	0	0	0	0
UQAT	0	0	0	0	0
UQO	0	0	0	0	0
UQTR	0	0	1	1	1
UVic	1	3	2	4	4
Waterloo	17	26	22	26	37
Western	17	8	8	10	8
Windsor	8	2	6	7	3
York	0	0		0	0
TOTAL	208	239	220	288	314

Table GD.3.5 Total master's degrees awarded by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		64	57	21	25	6				1	36	13		16
BCIT														
Calgary	13	82	17		36						32			14

Carleton	8		43	6	96		19			1	24			54
Concordia			127		293				46		72		117	12
Conestoga														
Dal	0	0	0	0	0	1	6		4	5	19			260
ETS			57		53		26		25		36		9	179
Guelph	9			18			17				2			
Lakehead					5		3							
Laurentian												11		
Laval	6	5	21				5			2	13	6		2
Manitoba	16		27		22				17		7			
McGill		18	15		53					23	44			
McMaster	5	10	14	17	51	11			3	14	36		16	73
Moncton														
MUN			5	17	7		23				4			75
NSAC														
Ottawa	7	53	58		87		24				56			129
Polytechnique	17	15	31	17	24	15			42	1	31	9		20
Queen's		13	30		20	9		2			25	19		
Regina				19			20		11				7	26
RMC		6	1		4						3			2
Ryerson		1	26	63	42						29			15
Saskatchewan	7	7	13		17		1				16			
SFU						18					13			
Sherbrooke		7	26		24						26			8
Toronto	29	68	103		142					27	202			60
UBC	31		55		47	1	20	9		6	43	25		
UBCO			18		7						12			
UNB		2			4						9			9
UNBC														
UOIT					8						21			10
UQAC							2							6
UQAR														5
UQAT														5
UQO														
UQTR		1			8				84					
UVic				3	18						19			
Waterloo		53	42		162						77			146
Western		53	53		76				3		32			
Windsor			26		187		14		33	13	123			
York				4										
TOTAL	159	463	874	185	1,539	61	180	11	268	93	1,062	83	149	1,126

Table GD.3.6 Total doctoral degrees awarded by institution and discipline: 2015.

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		18	18	1	10	4					17	8	7	
BCIT														

Acadia			2	1	1		0		
Alberta	88	4	47	7	40	9			
BCIT	41	6							
Calgary	76	10	34	10	19	8	0	0	157
Cape Breton	2	0	0	0	0	0	3	0	4
Carleton	56	4	53	4	19	3	11	8	158
Concordia	74	11	45	9	21	6	15	4	185
Conestoga	16	1	0	0	0	0	0	0	17
Dal	42	4	22	6	8	2	13	1	97
ETS	73	11	90	15	11	6	143	29	378
Guelph	11	3	14	2	11	6	4	1	52
Lakehead	14	1	12	1	10	2			
Laurentian	10	1	9		3			1	
Manitoba	36	4	19	5	12	3	5	1	83
McGill	43	1	64	8	21	5		1	
McMaster	83	5	34	4	14	9	2	0	150
Moncton	11	0	5	32	3	1			
MUN	25	2	23	4	15	4	5	2	79
NSAC	3	0	5		2	1	4	1	
Ottawa	50	10	24	10	14	5	10	1	124
Polytechnique	128	17	42	7	36	5	15	5	255
Queen's	69	13	24	1	10	4	7	1	129
Regina	17	4	10	1	4	1	11	1	49
RMC	25		23	3	4	2	19		
Ryerson	70	6	36	7	5	1	31	4	160
Saskatchewan	38	1	25	3	15	3	1	2	88
SFU	19	3	7	2	3	1	8	2	45
Sherbrooke	60	4	24	2	9	0	101	18	218
SMU	1	0	1	0	3	0	0	0	5
StFX	1	0	1	0	1				
Toronto	117	16	44	17	24	8	16	4	246
UBC	87	11	33	5	12	5	22	11	186
UBCO	3	2	16	1	13	1	5	3	44
UNB	36	6	9	2	6	1	6	0	65
UNBC	3		1						
UOIT	15	0	18	4	7	2	8	0	54
UPEI	2		2	1	2	1	1		
UQAC	12	3	13	1	1	1	11	1	43
UQAM									
UQAR	10	0	0	0	0	0	6	1	17
UQAT	5		5		1		1	1	
UQTR	20	1	9		3		0	0	
UVic	31	5	16	3	6		2		
Waterloo	115	16	66	14	36	12	24	7	288
Western	43	4	27	6	7	1	9	0	96
Windsor	37	2	19	6	2	1	4	1	71
York	16	1	19	3	14	2	2		
TOTAL	1730	192	989	206	445	121	524	111	3540

I.1 Total Indigenous students by Education level: 2015.

	Undergrad	Bachelor's Awarded	Graduate	Master's/PhD Awarded
Indigenous Students	337	57	69	21
Total Students	34,835	6,970	8,917	3,467

	0.97%	0.82%	0.77%	0.61%
--	-------	-------	-------	-------

Co-op Internship and Professional Experience Programs

C.1 Co-op, Internships and Professional Experience Programs: 2015.

Institution	Type of Program	Mandatory/Optional
Alberta	Co-op	Optional
BCIT	Internship	Mandatory
Calgary	Internship	Optional
Carleton	Co-op	Optional
Concordia	Co-op & Internship	Optional
Conestoga	Co-op	Mandatory
ETS	Co-op	Mandatory
Guelph	Co-op	Optional
Laurentian	Co-op	Optional
Laval	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
Regina	Co-op & Internship	Optional
RMC	Co-op	Optional
Ryerson	Co-op & Internship	Optional
Saskatchewan	Internship	Optional
SFU	Co-op	Varies
Sherbrooke	Co-op	Mandatory
Toronto	Internship	Optional
UBC	Co-op	Optional
UBCO	Co-op	Optional
UNB	Co-op	Optional
UQAR	Co-op	Optional
UQAT	Co-op	Optional
UQO	Internship	Mandatory
UQTR	Co-op	Optional
UVic	Co-op	Mandatory
Waterloo	Co-op	Mandatory
Western	Co-op & Internship	Optional
Windsor	Co-op & Internship	Optional
York	Co-op	Optional

Appendix B

Accredited engineering programs by institution

- This listing of accredited programs includes only engineering programs that lead to a bachelor's degree.
- 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.

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-

BRITISH COLUMBIA, THE UNIVERSITY OF

Vancouver, British Columbia

Faculty of Applied Science

- »Agricultural Engineering: 1965-1978
- »Bio-Resource Engineering: 1979-2001
- »Chemical Engineering: 1965-
- »Chemical and Biological Engineering: 2003-
- »Civil Engineering: 1965-
- »Computer Engineering: 2000-
- »Electrical Engineering: 1965-
- »Engineering Physics 1965-
- »Environmental Engineering
- »(jointly with Northern British Columbia): 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-

BRITISH COLUMBIA-OKANAGAN, THE UNIVERSITY OF

Kelowna, British Columbia

Faculty of Applied Science

- »Civil Engineering: 2011-
- »Electrical Engineering: 2011-
- »Mechanical Engineering: 2011-

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

NOVA SCOTIA TECHNICAL COLLEGE

(see Dalhousie University)

NSTC offered accredited engineering programs from 1965 to 1980.

NOVA SCOTIA, TECHNICAL UNIVERSITY OF

(see Dalhousie University)

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-

Faculty of Energy Systems and Nuclear Science

- »Nuclear Engineering: 2007-

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-

POLYTECHNIQUE, ÉCOLE

Montréal, Québec

(affiliated with l'Université de Montréal)

- »Génie aérospatial: 2012-
- »Génie biomédical: 2012-
- »Génie chimique: 1965-
- »Génie civil: 1965-
- »Génie électrique: 1965-
- »Génie géologique: 1965-
- »Génie industriel: 1973-
- »Génie informatique: 1989-
- »Génie logiciel: 2005-
- »Génie des matériaux: 1990-2012
- »Génie mécanique: 1965-
- »Génie métallurgique: 1965-1989
- »Génie des mines: 1991-
- »Génie minier: 1965-1991
- »Génie physique: 1965-

Burnaby, British Columbia

School of Construction and the Environment

»Civil Engineering: 2011-

School of Energy

»Electrical Engineering: 2011-

CALGARY, THE UNIVERSITY OF

Calgary, Alberta

Schulich School of Engineering

»Chemical Engineering: 1969-
»Civil Engineering: 1969-
»Computer Engineering: 2002-
»Electrical Engineering: 1969-
»Geomatics Engineering: 1996-
»Manufacturing Engineering: 1997-
»Mechanical Engineering: 1969-
»Oil and Gas Engineering: 2001-
»Software Engineering: 2002-
»Surveying Engineering: 1982-1997

CARLETON UNIVERSITY

Ottawa, Ontario

Faculty of Engineering and Design

»Aerospace Engineering: 1992-
»Architectural Conservation and
»Sustainability Engineering 2015-
»Biomedical and Electrical Engineering: 2011-
»Biomedical and Mechanical Engineering: 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 and Renewable Energy Engineering: 2012-

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-

QUÉBEC EN ABITBI-TEMISCAMINGUE, UNIVERSITÉ DU

Rouyn-Noranda, Québec

Unité d'enseignement et de recherche en sciences appliquées

»Génie électromécanique: 2000-
»Génie mécanique: 2011-

QUÉBEC À CHICOUTIMI, UNIVERSITÉ DU

Chicoutimi, Québec

Department 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 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 EN OUTAOUAIS, UNIVERSITÉ DU

Gatineau, Québec

(formerly Québec a Hull, Université du)

Module de l'ingénierie

»Génie informatique: 2002-

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'ingénieure

»Génie chimique: 1990-
»Génie électrique: 1978-
»Génie industriel: 1980-
»Génie mécanique manufacturier: 1987-1999

»Mechanical Systems Engineering: 2011-

DALHOUSIE UNIVERSITY

Halifax, Nova Scotia
(formerly Dal Tech, 1997-200 and Technical University of Nova Scotia, 1981-1997 and Nova Scotia Technical College, 1907-1980)

Faculty of Engineering

- »Agricultural Engineering: 1974-2000
- »Biological Engineering: 1997-2014
- »Chemical Engineering: 1965-
- »Civil Engineering: 1965-
- »Computer Engineering: 2006-2014
- »Core Program: 1980-
- »Electrical Engineering: 1965-
- »Engineering Physics: 1987-1991
- »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 des opérations et de la logistique: 2008-
- »Génie des technologies de l'information: 2006-
- »Génie et gestion de la construction: 1990-1996
- »Génie électrique: 1990-
- »Génie logiciel: 2004-
- »Génie mécanique: 1990-
- »Génie de la production automatisée: 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-

LAKEHEAD UNIVERSITY

Thunder Bay, Ontario

Faculty of Engineering

- »Chemical Engineering: 1974-
- »Civil Engineering: 1974-
- »Electrical Engineering: 1974-
- »Mechanical Engineering: 1974-

»Génie mécanique: 2000-

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-

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

ROYAL MILITARY COLLEGE OF CANADA

Kingston, Ontario

Faculty of Engineering

- »Aeronautical Engineering: 2009-
- »Chemical Engineering: 1965-1981, 2001-
- »Chemical and Materials Engineering: 1992-2001
- »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-

RYERSON POLYTECHNICAL INSTITUTE

(see Ryerson University)

- »RPI offered accredited engineering programs in 1992.

RYERSON POLYTECHNICA UNIVERSITY (RPU)

(see Ryerson University)

- »RPU offered accredited engineering programs from 1992 to 2002.

RYERSON UNIVERSITY

»Software Engineering: 2002-

LAURENTIAN UNIVERSITY

Sudbury, Ontario

School of Engineering

- »Chemical Engineering: 2006-
- »Extractive Metallurgical Engineering: 1987-2006
- »Extractive Metallurgy: 1985-1986
- »Mechanical Engineering: 2011-
- »Mineral Resources Engineering: 1987-
- »Mining Engineering: 1987-

LAVAL, UNIVERSITÉ

Québec, Québec

Faculté de foresterie, de géographie et de géomatique

- »Génie du bois: 2002-
- »Génie géomatique: 2007-

Faculté des sciences de l'agriculture et de l'alimentation

- »Génie agroalimentaire: 1999-
- »Génie agroenvironnemental: 2002-
- »Génie alimentaire: 1997-

Faculté des sciences et de génie

- »Génie chimique: 1965-
- »Génie civil: 1965-
- »Génie des eaux: 2009-
- »Génie électrique: 1965-
- »Génie géologique: 1965-
- »Génie industriel: 2014-
- »Génie informatique: 1993-
- »Génie logiciel: 2006-
- »Génie des matériaux et de la métallurgie: 1990-
- »Génie mécanique: 1965-
- »Génie métallurgique: 1965-1990
- »Génie des mines et de la minéralurgie: 1990-
- »Génie minier: 1965-1990
- »Génie physique: 1965-
- »Génie rural: 1973-2002
- »Ingénierie/réhabilitation des infrastructure urbaines: 1999-

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-

MCGILL UNIVERSITY

Toronto, Ontario

(formerly Ryerson Polytechnical institute, 1964-1992, and Ryerson Polytechnic University, 1992-2002)

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-

SASKATCHEWAN, UNIVERSITY OF

Saskatoon, Saskatchewan

College of Engineering

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

SHERBROOKE, UNIVERSITÉ DE

Sherbrooke, Québec

Faculté de génie

- »Génie biotechnologique: 2008-
- »Génie chimique: 1973-
- »Génie civil: 1965-
- »Génie électrique: 1965-
- »Génie informatique: 1997-
- »Génie mécanique: 1965-

SIMON FRASER UNIVERSITY

Burnaby, British Columbia

School of Engineering Science

- »Engineering Science: 1986-
- »Mechatronic Systems Engineering: 2011-

SIR GEORGE WILLIAMS UNIVERSITY (SGW)

(see Concordia University)

SGW offered accredited engineering programs from 1969 to 1974.

TORONTO, UNIVERSITY OF

Toronto, Ontario

Faculty of Applied Science and Engineering

- »Chemical Engineering: 1965-
- »Civil Engineering: 1965-

Montréal, Québec

Faculty of Agricultural and Environmental Sciences

»Bioresource Engineering: 2005-

Faculty of Engineering

Agricultural Engineering (Macdonald College): 1971-2006

»Chemical Engineering: 1965-
»Civil Engineering: 1965-
»Computer Engineering: 1993-
»Electrical Engineering: 1965-
»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 & Bioengineering: 2006-
»Civil Engineering: 1989-
»Civil Engineering & Computer Systems: 1992-1995
»Civil Engineering & 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-

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

MONCTON, UNIVERSITÉ DE

Moncton, Nouveau-Brunswick

Faculté d'ingénierie

»Génie civil: 1972-
»Génie électrique: 1998-
»Génie industriel: 1975-2009

»Computer Engineering: 1994-

»Electrical Engineering: 1965-

»Engineering Science: 1965-

»Geo-Engineering: 1983-1990

»Geological Engineering: 1965-1974

»Geological Engineering & Applied Earth Science: 1975-1982

»Geological and Mineral Engineering: 1991-1998

»Industrial Engineering: 1965-

»Materials Engineering: 1996-

»Mechanical Engineering: 1965-

»Metallurgical Engineering and Materials Science: 1986-1995

»Metallurgy & Materials Science: 1965-1985

»Mineral Engineering: 1999-

VICTORIA, UNIVERSITY OF

Victoria, British Columbia

Faculty of Engineering

»Computer Engineering: 1988-
»Electrical Engineering: 1988-
»Mechanical Engineering: 1992-
»Software Engineering: 2007-

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: 2011-
»Software Engineering: 2006-
»Systems Design Engineering: 1974-

WESTERN ONTARIO, THE UNIVERSITY OF

London, Ontario

Faculty of Engineering

»Chemical Engineering: 1965-1971, 2007-
»Chemical and Biochemical Engineering: 1972-2006
»Civil Engineering: 1965-
»Computer Engineering: 2001-
»Electrical Engineering: 1965-
»Green Process Engineering: 2012-
»Integrated Engineering: 2001-
»Materials Engineering: 1968-1999
»Mechanical Engineering: 1965-
»Mechatronic Systems Engineering: 2014-
»Software Engineering: 2001-

WINDSOR, UNIVERSITY OF

»Génie mécanique: 1990-

NEW BRUNSWICK, UNIVERSITY OF

Fredericton, New Brunswick

Faculty of Computer Science and Faculty of Engineering

Software Engineering: 2006-

Faculty of Engineering

- »Chemical Engineering: 1965-
- »Civil Engineering: 1965-
- »Computer Engineering: 2001-
- »Electrical Engineering: 1965-
- »Forest Engineering: 1972-
- »Geological Engineering: 1984-
- »Geomatics Engineering: 1999-
- »Mechanical Engineering: 1965-
- »Surveying Engineering: 1972-1999

NORTHERN BRITISH COLUMBIA, UNIVERSITY OF

Prince George, British Columbia

College of Science and Management

- »Environmental Engineering
- »(jointly with British Columbia): 2007-

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-

YORK UNIVERSITY

Toronto, Ontario

Faculty of Science and Engineering

- »Computer Engineering: 2007-
- »Geomatics Engineering: 2007-
- »Space 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
- »Bioresource Engineering
- »Biological Engineering
- »Biomedical Engineering
- »Biomedical and Mechanical Engineering
- »Biomedical Mechanical Engineering
- »Biomedical: Computer Science
- »Biosystems Engineering
- »Chemical and Biological Engineering
- »Forest Engineering
- »Génie agroalimentaire
- »Génie agroenvironnemental
- »Génie alimentaire
- »Génie biomédical
- »Génie biotechnologique

Discipline: Civil

Program

- »Architectural Conservation and Sustainability
- »Architectural Engineering

Discipline: Chemical

Program

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

Discipline: Computer

Program

- »Computational Engineering and Science
- »Computer Engineering
- »Computer Networks Engineering
- »Computer Systems Engineering
- »Electronic Information Systems Engineering
- »Electronic Systems Engineering
- »Engineering Systems and Computing
- »Génie informatique
- »Human Computer Interaction
- »Software Engineering and Game Design
- »Systems – Electrical & Computer

- »Building Engineering
- »Civil Engineering
- »Civil and Environmental Engineering
- »Génie civil
- »Génie de la construction
- »Génie et gestion de la construction
- »Infrastructure Protection and International Security
- »Ingénierie/réhabilitation des infrastructures urbaines

Discipline: *Electrical*

Program

- »Biomedical and Electrical Engineering
- »Communications Engineering
- »Controls Engineering
- »Electrical Engineering
- »Electrical and Computer Engineering
- »Electrical and Biomedical Engineering
- »Electronic Business Technologies
- »Energy Systems Engineering
- »Electro-mechanical Design
- »Electronics Systems Engineering
- »Génie des opérations et de la logistique
- »Génie des technologies de l'information
- »Génie des systèmes électromécaniques
- »Génie électrique
- »Génie électromécanique
- »Génie énergétique
- »Génie microélectronique
- »Information Systems Security Engineering
- »Quality Systems Engineering
- »Sustainable Energy Engineering

Discipline: *Geological*

Program

- »Génie géologique
- »Geological Engineering
- »Geological Engineering (Geophysics)

Discipline: *Materials or Metallurgical*

Program

- »Génie des matériaux et de la métallurgie
- »Génie des matériaux
- »Génie métallurgique
- »Ingénierie de l'aluminium
- »Materials Engineering
- »Mining/Materials Engineering

Discipline: *Mining or Mineral*

Program

- »Génie des mines
- »Génie des mines et de la minéralurgie
- »Génie minéral
- »Maîtrise en génie minéral
- »Mineral Engineering
- »Mining Engineering

Discipline: *Engineering Physics*

Program

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

Discipline: *Environmental*

Program

- »Clean Energy Engineering
- »Energy and Environment Systems
- »Environmental Engineering
- »Environmental Systems Engineering
- »Génie des eaux
- »Maîtrise en Science de la Terre
- »Maîtrise en génie de l'environnement
- »Sustainable & Renewable Energy
- »Sciences de la Terre et de l'atmosphère
- »Génie ressources et systèmes
- »Water Resources Engineering

Discipline: *Industrial or Manufacturing*

Program

- »Advanced Design and Manufacturing Institute
- »Advanced Manufacturing and Process Systems
- »Électronique industrielle
- »Génie de la production automatisée
- »Génie des opérations et de la logistique
- »Génie industriel
- »Génie mécanique manufacturier
- »Génie sécurité et hygiène industrielles
- »Industrial Engineering
- »Industrial Systems Engineering
- »Mechanical Manufacturing Engineering
- »Manufacturing Engineering

Discipline: *Mechanical*

Program

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

- »Mineral Resources Engineering
- »Natural Resources Engineering

Discipline: *Software*

Program

- »Génie logiciel
- »Information Systems Science Engineering
- »Software Engineering
- »Software Engineering Entrance Program
- »Software Engineering & Virtual Systems Design
- »Software Systems Engineering

Year One/Two:

- »Common First and Second Year

Common Year:

- »Engineering Entrance
- »Year One - Common

Discipline: *Other*

Program

- »Aeronautical Engineering
- »Aerospace Engineering
- »Centre for Business, Entrepreneurship & Technology
- »Civil and Geological Engineering
- »Core Program
- »Doctorat en ingénierie
- »Doctorat en ressources minérales
- »Engineering and Public Policy
- »Engineering Design
- »Engineering Management
- »Engineering Systems and Computing
- »Engineering Management
- »Fire Protection Engineering
- »Génie aérospatial
- »Génie du bois
- »Génie géomatique
- »Génie nucléaire
- »Génie papetier
- »Génie sciences des pâtes et papiers
- »Génie des technologies de l'information
- »Génie unifié
- »General Engineering
- »Geodesy and Geomatics
- »Geo-engineering
- »Geomatics Engineering
- »Green Process Engineering
- »Information and Systems Engineering
- »Integrated Engineering
- »Management Engineering
- »Management Sciences
- »Nuclear Engineering
- »Ocean and Naval Architectural Engineering
- »Oil and Gas Engineering
- »Petroleum Engineering
- »Petroleum Systems Engineering
- »Process Engineering
- »Pulp & Paper Engineering
- »Systems Design Engineering
- »TIM (Systems)
- »Technology Management
- »Telecommunications Technical Management

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

Endnotes

1. *I. 'Accredited programs' are programs that are recognized by the Accreditation Board as meeting the educational standard required by candidates for a professional engineering licence.*
2. *This section and all following sections refer only to enrolment in currently accredited programs.*
3. *Graduates of programs at this institution may have completed additional non-technical studies, such as a management or society option, that will be listed on their transcripts. These transcripts contain wording such as "(Discipline) Engineering and Society" or "(Discipline) Engineering and Management." Only the engineering component of these programs is accredited by the Accreditation Board; thus, even though these options meet the accreditation requirements, only the base engineering programs are listed here.*
4. *Graduates of programs at this institution may have completed additional non-technical studies, such as a management option, that will be listed on their degrees and transcripts. These degrees and transcripts contain wording such as "(Discipline) Engineering and Management." Only the engineering component of these programs is accredited by the Accreditation Board; thus, even though these options meet the accreditation requirements, only the base engineering programs are listed here.*
5. *Although reported under Engineering Physics, the SFU program is a broader Engineering Science program with multiple options—Biomedical Engineering, Computer Engineering, Electronics Engineering, Engineering Physics and Systems Engineering.*