

Ontario Labour Market Report

CIP Program 13.02: Bilingual, Multilingual and Multicultural Education
Most Relevant Academic Program(s) at Brock: Aboriginal Adult Education
EMSI Q3 2016 Data Set
February 2017



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Table of Contents

Section 1: Program Overview

- a) How many degrees are completed in Ontario (Labour Supply)?3
- b) What types of degrees are completed in Ontario?.....3
- c) What other similar programs are offered in Ontario?4
- d) What other similar programs are offered at Brock University?.....4

Section 2: Target Occupations

- a) What top growing target occupations are obtained by Alumni?.....5
- b) What are the growth prospects for these occupations (Demand)?6
- c) How much are these target occupations earning?.....7
- d) Where are the hottest places in Ontario in terms of job growth?8

Section 3: Top Three Target Occupation Summaries

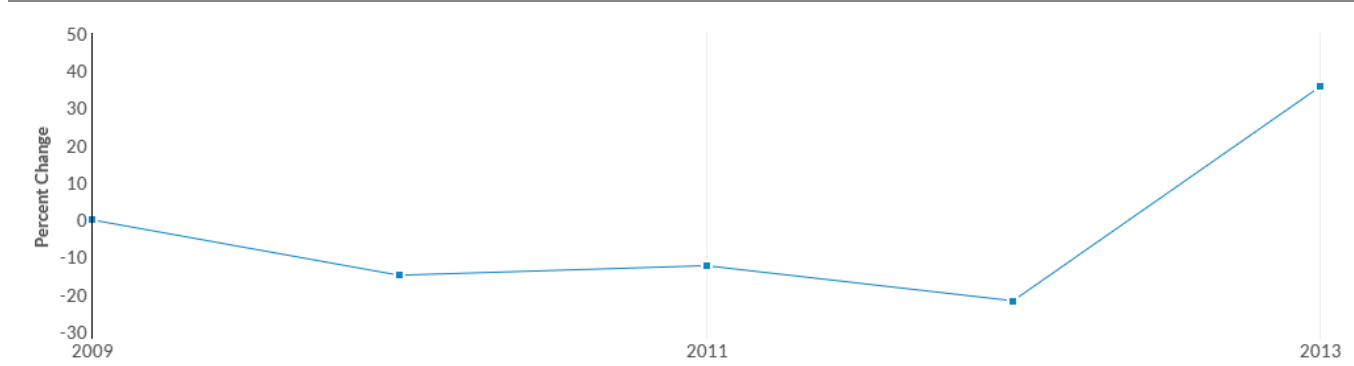
***Includes Description, Skills & Competencies, Ontario Trends in Field, Location of Job, Industries*

- a) Elementary School and Kindergarten Teacher.....10
 - b) Secondary School Teacher.....12
 - c) College and Other Vocational Instructor.....14
- Reference and Notes.....16

Section 1: Program Overview for Aboriginal Adult Education (13.02)

5 Ontario Institutions had Completions in the last 5 years	38 Regional Program Completions (2013)
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a) How many degrees are completed in Ontario? (13.02)



Region	2009 Completions	2013 Completions	% Change
• Ontario	0	38	N/A
• Canada	188	255	35.8%

b) What types of degrees are coming from Ontario? (13.02)



Award Level	Completions (2013)	Percent
• Career, technical or pre-university program	14	37.0%
• Bachelors degree	24	63.0%

c) What other similar programs are offered in Ontario?

13 Programs (2013)		21,182 Completions (2013)
CIP Code	Program	Completions (2013)
13.12	Teacher education and professional development, specific levels and methods	5,600
42.01	Psychology, general	4,924
26.01	Biology, general	3,821
13.01	Education, general	2,829
13.13	Teacher education and professional development, specific subject areas	1,777

d) What other similar programs are offered at Brock University?

Adult Education¹ - The Centre for Adult Education and Community Outreach offers a Bachelor of Education (BEd) in Adult Education as well as a Co-op option and a Certificate in Adult Education. The programs are designed to enhance the abilities of individuals working with, or aspiring to work with, adult populations in a variety of educational/training contexts, as well as those interested in self-study as adult learners.

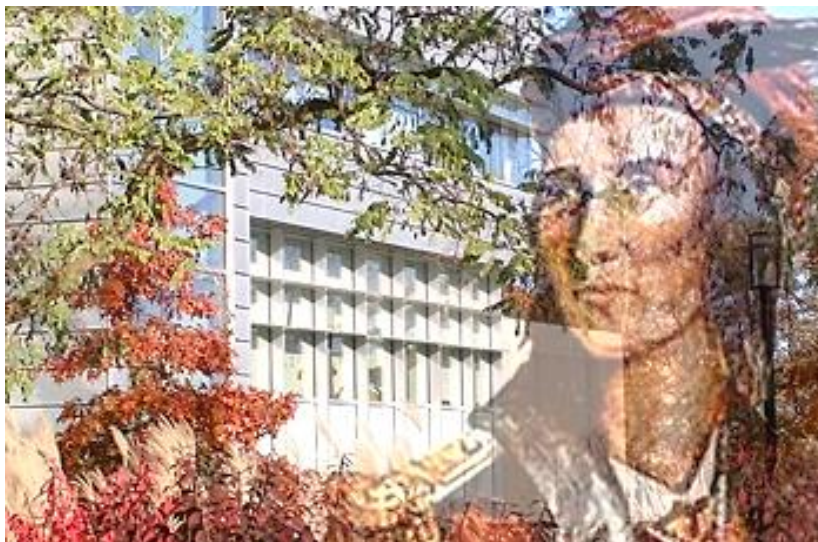
Biological Sciences² - The biological sciences, or the life sciences, encompass a broad spectrum of subjects from molecular biology to ecology as well as such disciplines as biochemistry, biophysics, genetics and physiology. The program is designed to provide the student with a broad base in modern biological thought, to fulfill the basic requirements for admission to professional and advanced degree studies and to prepare graduates for careers in the biological sciences and related fields. Although the undergraduate program provides students with flexibility in selecting the areas of biology most compatible with their interests and skills, it also ensures that students develop an overview of the major concepts and problems of modern biology as expressed at all levels of biological organization.

Psychology³ - The Department of Psychology offers four-year programs of study leading to a BA (Honours) Psychology, a BA with Major Psychology, and a three-year BA Pass degree program. Programs are designed to provide students with a broad introduction to the field of psychology including research methodology, psychological theory and application. In addition, the 20-credit degree programs give students the opportunity to prepare for admission to professional and advanced degree training in a variety of fields. Students interested in pursuing graduate study specifically in psychology should complete the Honours program.

Section 2: Target Occupations

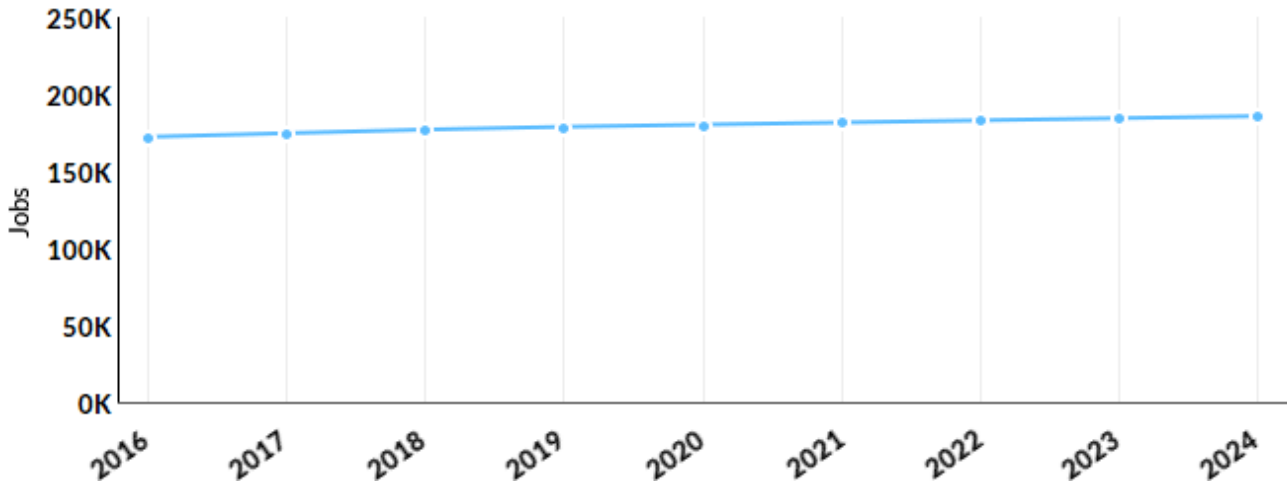
a) Which top growing jobs are obtained by Alumni?

Occupation	2016 Jobs ⁷	Median Hourly Wages ⁸	Growth (2016 - 2024)	Location Quotient ⁴ (2016)
Elementary school and kindergarten teachers	82,970	\$39.42/hr	8.72%	1.08
Secondary school teachers	42,242	\$42.60/hr	6.07%	1.03
College and other vocational instructors	39,505	\$34.62/hr	8.66%	0.93
Educational counsellors	5,112	\$26.67/hr	7.18%	0.65



b) What are the growth prospects for these target occupations?

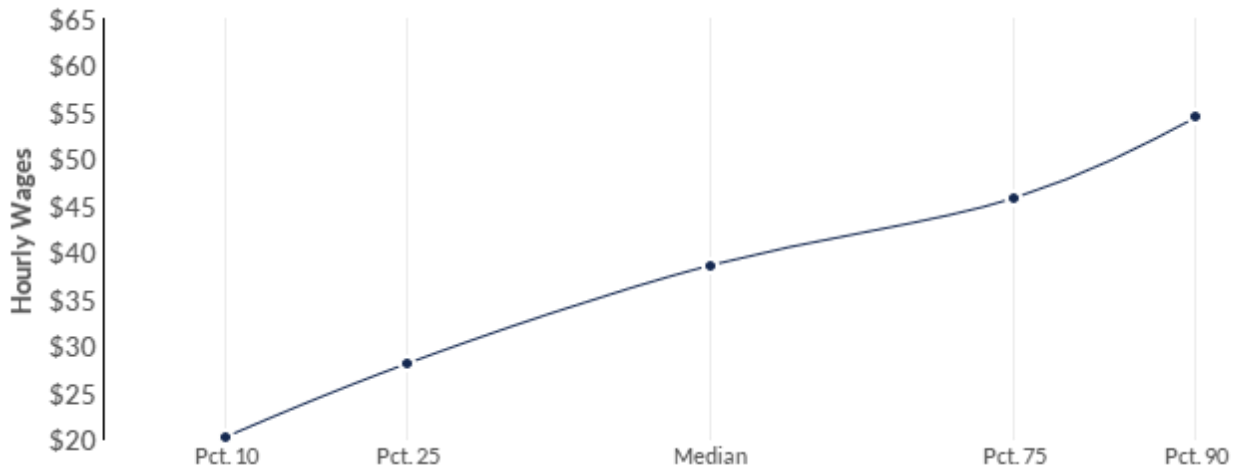
172,118 2016 Jobs ⁷	185,587 2024 Jobs ⁷	13,469 Change (2016-2024)	7.8% % Change (2016-2024)
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Occupation	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
College and other vocational instructors (4021)	39,505	42,925	3,420	9%
Secondary school teachers (4031)	42,242	44,805	2,563	6%
Elementary school and kindergarten teachers (4032)	82,970	90,206	7,236	9%
Educational counsellors (4033)	5,112	5,479	367	7%

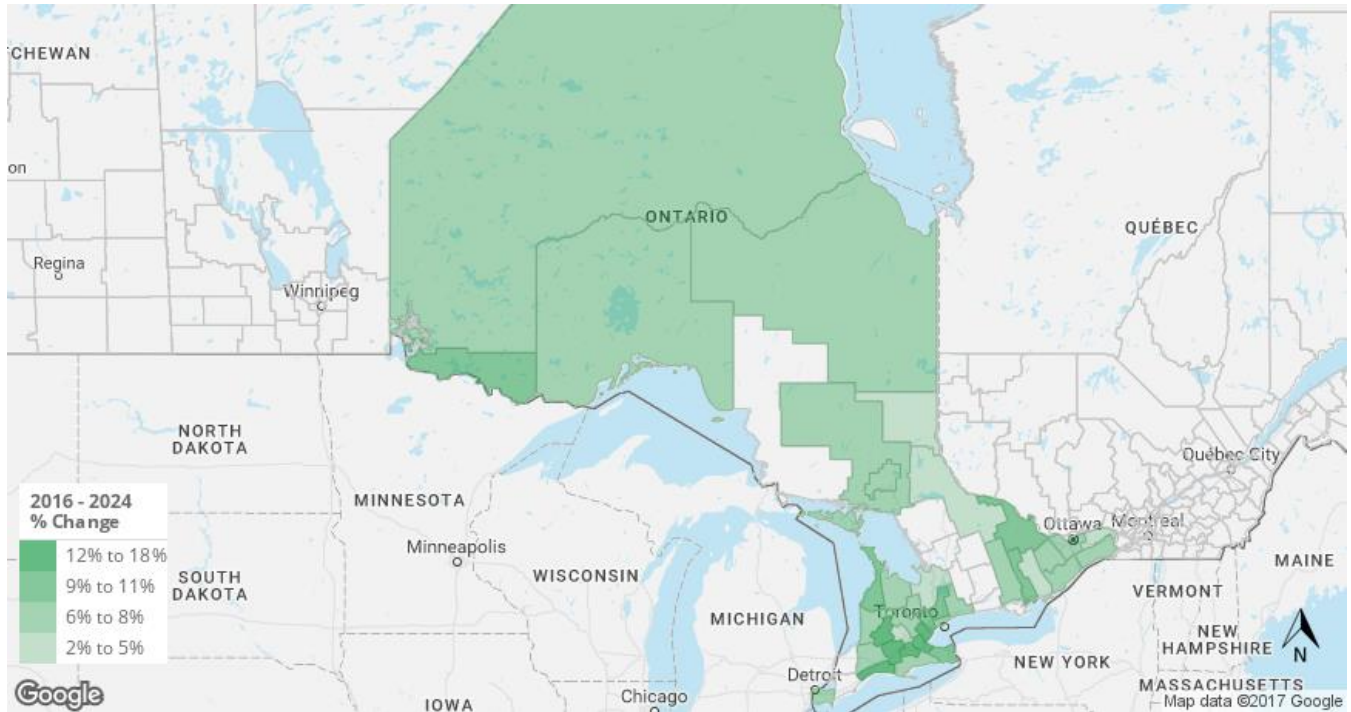
c) How much are these target occupations earning?

\$28.10/hr 25th Percentile Wages ⁸	\$38.62/hr Median Wages ⁸	\$45.81/hr 75th Percentile Wages ⁸
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Occupation	25th Percentile Wages	Median Wages	75th Percentile Wages
College and other vocational instructors (4021)	\$23.08	\$34.62	\$45.89
Secondary school teachers (4031)	\$33.33	\$42.60	\$48.08
Elementary school and kindergarten teachers (4032)	\$28.21	\$39.42	\$45.19
Educational counsellors (4033)	\$21.19	\$26.67	\$38.46
Translators, terminologists and interpreters (5125)	\$28.85	\$31.79	\$41.03

d) Where are the hottest places in Ontario in terms of job growth?



Census Division	Census Division Name	2016 Jobs ⁴	2024 Jobs ⁴	2016 - 2024 Change	2016 - 2024 % Change	Expected Change	2016 Location Quotient ⁵	2024 Location Quotient ⁵	2015 Avg. Hourly Wages ⁶
3532	Oxford	1,397	1,645	248	18%	91	0.93	1.02	\$38.94
3529	Brant	1,924	2,211	287	15%	125	1.16	1.25	\$38.83
3531	Perth	961	1,087	126	13%	63	0.84	0.89	\$38.12
3525	Hamilton	7,896	8,814	918	12%	515	1.34	1.40	\$38.82
3524	Halton	7,808	8,710	902	12%	509	1.20	1.25	\$37.89
3534	Elgin	892	995	103	12%	58	1.15	1.23	\$39.03
3526	Niagara	5,483	6,071	588	11%	358	1.12	1.19	\$38.88
3559	Rainy River	445	492	47	11%	29	1.90	1.98	\$38.32
3547	Renfrew	1,628	1,791	163	10%	106	1.33	1.38	\$39.17
3541	Bruce	907	996	89	10%	59	1.08	1.10	\$38.13
3519	York	13,578	14,840	1,262	9%	885	1.00	1.01	\$37.51
3521	Peel	17,029	18,515	1,486	9%	1,110	0.92	0.94	\$37.47
3511	Lennox and Addington	541	587	46	9%	35	1.70	1.71	\$39.24

Census Division	Census Division Name	2016 Jobs ⁴	2024 Jobs ⁴	2016 - 2024 Change	2016 - 2024 % Change	Expected Change	2016 Location Quotient ⁵	2024 Location Quotient ⁵	2015 Avg. Hourly Wages ⁶
3509	Lanark	597	647	50	8%	39	1.01	1.03	\$37.71
3501	Stormont, Dundas and Glengarry	1,327	1,436	109	8%	87	1.13	1.14	\$37.61
3520	Toronto	39,450	42,648	3,198	8%	2,571	0.94	0.96	\$37.14
3540	Huron	713	769	56	8%	46	1.14	1.18	\$38.11
3542	Grey	1,045	1,127	82	8%	68	1.08	1.10	\$38.14
3512	Hastings	1,889	2,035	146	8%	123	1.06	1.07	\$39.12
3552	Sudbury	262	281	19	7%	18	1.28	1.27	\$39.36
3522	Dufferin	641	687	46	7%	42	1.20	1.20	\$37.82
3528	Haldimand-Norfolk	1,065	1,140	75	7%	69	1.03	1.04	\$38.78
3556	Cochrane	1,245	1,329	84	7%	81	1.16	1.16	\$39.47
3558	Thunder Bay	2,125	2,267	142	7%	139	1.12	1.12	\$38.09
3539	Middlesex	5,873	6,264	391	7%	383	0.95	0.95	\$37.82
3518	Durham	7,619	8,108	489	6%	496	1.38	1.38	\$37.46
3553	Greater Sudbury / Grand Sudbury	2,352	2,496	144	6%	153	1.05	1.04	\$39.54
3537	Essex	4,539	4,816	277	6%	296	1.03	1.04	\$38.50
3523	Wellington	2,297	2,437	140	6%	150	0.74	0.74	\$37.49
3560	Kenora	960	1,018	58	6%	63	1.39	1.39	\$38.21
3551	Manitoulin	149	158	9	6%	10	1.00	0.98	\$39.16
3506	Ottawa	12,749	13,514	765	6%	831	0.87	0.87	\$36.38
3507	Leeds and Grenville	1,019	1,077	58	6%	66	0.99	0.98	\$37.43
3548	Nipissing	1,163	1,224	61	5%	76	1.02	1.00	\$39.48
3543	Simcoe	5,438	5,721	283	5%	354	1.15	1.13	\$37.74
3554	Timiskaming	350	368	18	5%	23	0.93	0.91	\$39.54
3502	Prescott and Russell	962	1,011	49	5%	63	1.36	1.32	\$38.00
3510	Frontenac	2,279	2,389	110	5%	149	1.05	1.04	\$38.93

Section 3: Top Three Job Occupation Summaries

a) Elementary School and Kindergarten Teacher

Elementary school and kindergarten teachers teach basic subjects such as reading, writing and arithmetic or specialized subjects such as English or French as a second language at public and private elementary schools⁵.

Technology Skills Required⁶:

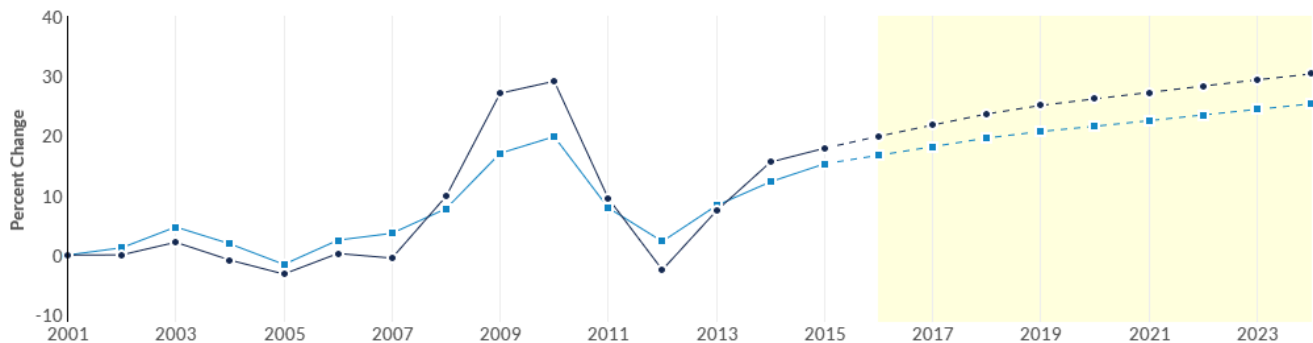
- Computer Based Training Software: Children’s educational software
- Office Suite Software: Microsoft Office
- Device Driver or System Software: Screen magnification software, Screen reader software, Synapse outSPOKEN, The vOICE Learning Edition

Skills & Abilities Required⁶:

- Instructing: teaching others how to do something
- Speech Clarity: speaking clearly
- Active Listening: Listening what other people are saying, understanding the points being made, and asking questions as appropriate

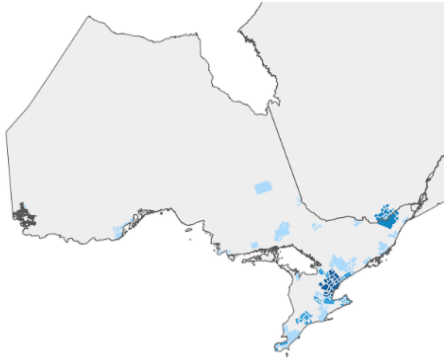
<p>81,580 Jobs⁷ (2015)</p> <p>8% above Canada’s average</p>	<p>8.7% % Change (2016-2024)</p> <p>Canada: 7.4%</p>	<p>\$39.42/hr Median Hourly Wages⁸</p> <p>Canada: \$36.31/hr</p>
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Ontario Trends



Region	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
• Ontario	82,970	90,206	7,236	8.7%
• Canada	200,306	215,112	14,806	7.4%

Where are the most jobs in Ontario for Elementary School and Kindergarten Teachers?



Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	40,553
Ottawa - Gatineau	7,923
Hamilton	5,318
Kitchener - Cambridge - Waterloo	4,085
London	2,851

Who are employing Elementary School and Kindergarten Teachers?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Depository credit intermediation	6,680	18.9%	4.9%
Other financial investment activities	4,291	12.1%	11.0%
Securities and commodity contracts intermediation and brokerage	2,475	7.0%	10.3%
Other federal services	1,575	4.4%	1.3%
Management of companies and enterprises	1,202	3.4%	3.2%



b) Secondary School Teacher

Secondary school teachers prepare and teach academic, technical, vocational or specialized subjects at public and private secondary schools. Secondary school teachers who are heads of departments are included in this group⁵.

Technology Skills Required⁶ :

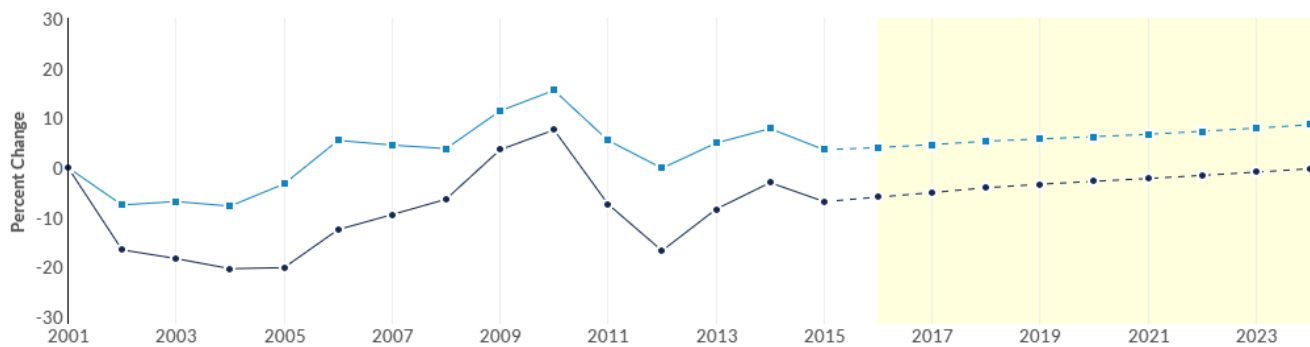
- Computer based training Software: Instructional software
- Presentation Software: Microsoft PowerPoint
- Spreadsheet Software: Microsoft Excel
- Data Base User Interface and Query Software: Blackboard, PowerSchool SIS

Skills & Abilities Required⁶ :

- Instructing: teaching others how to do something
- Learning Strategies: selecting and using training/instructional methods and procedures appropriate
- Oral Expression: communicating information and ideas clearly
- Coordination: adjusting actions in relation to others' action

41,838 Jobs⁷ (2015) 3% above Canada's average	6.1% % Change (2016-2024) Canada: 4.4%	\$42.60/hr Median Hourly Wages⁸ Canada: \$38.71/hr
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Ontario Trends



Region	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
• Ontario	42,242	44,805	2,563	6.1%
• Canada	106,600	111,315	4,715	4.4%

Where are the most jobs in Ontario for Secondary School Teachers?



Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	19,273
Ottawa - Gatineau	4,508
Hamilton	3,649
Kitchener - Cambridge - Waterloo	1,672
St. Catharines - Niagara	1,667

Who are employing Secondary School Teachers?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Elementary and secondary schools	40,849	97.6%	14.4%
Other schools and instruction	753	1.8%	2.7%
Educational support services	136	0.3%	3.4%
Individual and family services	23	0.1%	0.0%
Technical and trade schools	18	0.0%	0.7%

Brock University students have been successful with finding employment within our local Hamilton-Niagara region and capital city of Toronto.

c) College and Other Vocational Instructor

This unit group includes instructors who teach applied arts, academic, technical and vocational subjects to students at community colleges, CEGEPs, agricultural colleges, technical and vocational institutes, language schools and other college level schools. This unit group also includes trainers who are employed by private training establishments, companies, community agencies and governments to deliver internal training or development courses. College teachers who are heads of departments are included in this group⁵.

Technology Skills Required⁶:

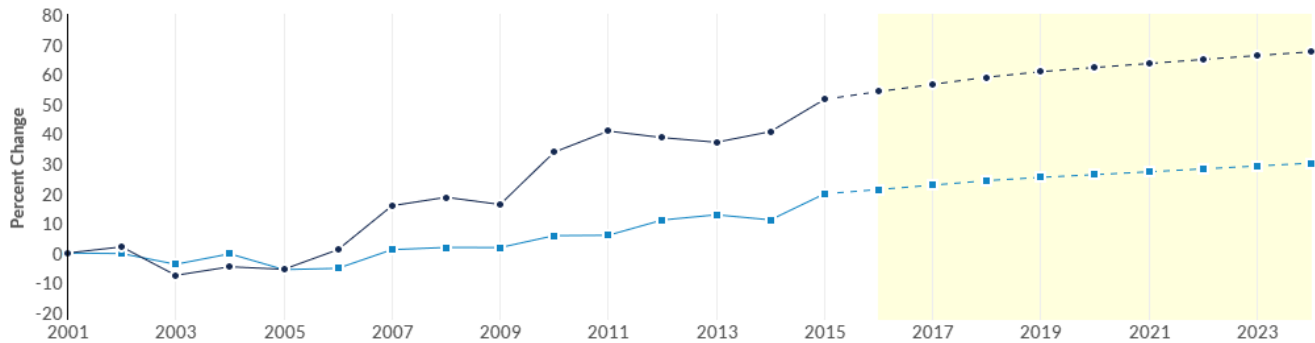
- Medical Software: Electronic medical record EMR software; MEDITECH software; Test result delivery software; Test routing software
- Spreadsheet Software: Microsoft Excel
- Data Base User Interface and Query Software: Data base user interface and query software

Skills & Abilities Required⁶:

- Critical Thinking: using logic and reasoning to identify the strengths and weakness of alternative solutions
- Science: using scientific rules and methods to solve problems
- Operation Monitoring: Watching gauges, dials, or other indicators to ensure a machine is working properly

38,841 Jobs⁷ (2015) 7% below Canada's average	8.7% % Change (2016-2024) Canada: 7.3%	\$34.62/hr Median Hourly Wages⁸ Canada: \$34.33/hr
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Ontario Trends



Region	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
• Ontario	39,505	42,925	3,420	8.7%
• Canada	110,724	118,797	8,073	7.3%

Where are the most jobs in College and Other Vocational Instructors?



Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	21,115
Ottawa - Gatineau	5,280
Hamilton	2,754
London	2,104
St. Catharines - Niagara	1,420

Who are employing College and Other Vocational Instructors?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Community colleges and C.E.G.E.P.s	19,205	49.4%	43.4%
Other schools and instruction	3,221	8.3%	11.5%
Elementary and secondary schools	1,299	3.3%	0.5%
Business schools and computer and management training	1,090	2.8%	28.0%
Defence services	793	2.0%	2.0%

Reference and Notes

¹ <https://brocku.ca/webcal/2016/undergrad/edae.html>

² <https://brocku.ca/webcal/2016/undergrad/biol.html>

³ <https://brocku.ca/webcal/2016/undergrad/psyc.html>

⁴ Location Quotient: a calculation that quantifies the concentration of a particular industry, cluster, or occupation, in a region as compared to the nation. It can reveal what makes a particular region “unique” in comparison to the national average. Source: <http://www.economicmodeling.com/2011/10/14/understanding-location-quotient-2/>

⁵ <https://brocku.EmsiCareerCoach.ca>

⁶ <https://www.onetonline.org/>

⁷ Employment numbers do not include people who are self-employed and may be under-represented.

⁸ Wages do not consider people who are self-employed and may be under-represented.