

Ontario Labour Market Report

CIP Program 24.01: Liberal Arts and Sciences

Most Relevant Academic Program(s) at Brock:

Concurrent Bachelor of Science Honours & Bachelor of Education

EMSI Q3 2016 Data Set

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Institutional Analysis and Planning

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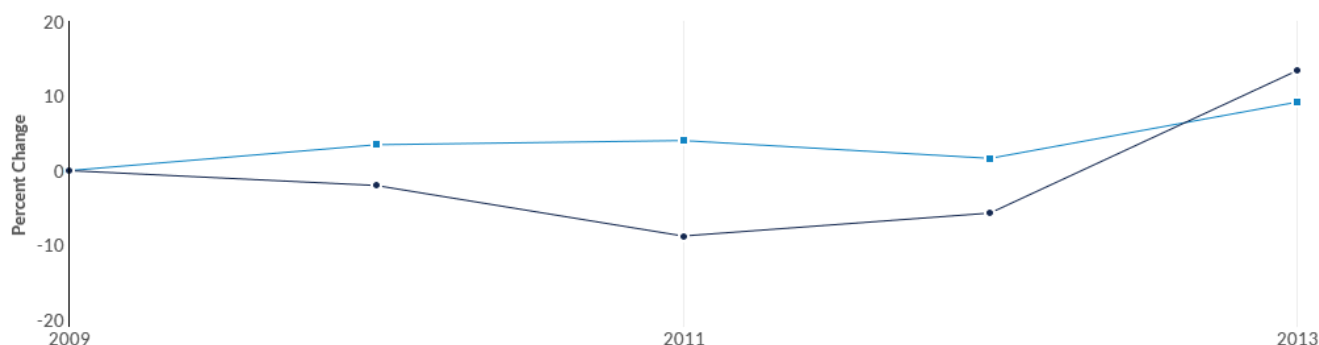
***Includes Description, Skills & Competencies, Ontario Trends in Field, Location of Job, Industries*

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Section 1: Program Overview for Concurrent Bachelor of Science Honours & Bachelor of Education (24.01)

55 Ontario Institutions had Completions in the last 5 years	5,032 Ontario Program Completions (2013)
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a) How many degrees are completed in Ontario? (24.01)



	Region	2009 Completions	2013 Completions	% Change
•	Ontario	4,437	5,032	13.4%
•	Canada	33,036	36,072	9.2%

b) What types of degrees are coming from Ontario? (24.01)



	Award Level	Completions (2013)	Percent
•	Career, technical or pre-university program	2,965	58.9%
•	Bachelors degree	2,043	40.6%
•	Masters Degree	12	0.2%
•	Doctors Degree	11	0.2%

c) What other similar programs are offered in Ontario?

15 Programs (2013)		19,468 Completions (2013)
CIP Code	Program	Completions (2013)
13.12	Teacher education and professional development, specific levels and methods	5,600
19.07	Human development, family studies and related services	4,730
13.01	Education, general	2,829
13.13	Teacher education and professional development, specific subject areas	1,777
50.09	Music	1,179

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

Psychology¹ - Programs are designed to provide students with a broad introduction to the field of psychology including research methodology, psychological theory and application.

Child and Youth Studies² - Child and Youth Studies programs provide a broadly based interdisciplinary approach that considers theoretical and applied approaches to children and youth within the multiple contexts of culture, the economy, the law, family, school, peer group, and community. With roots in psychology, sociology, anthropology, criminology, education and cultural studies, the academic focus provides an integration of approaches through which a comprehensive understanding of children and youth can evolve.

Sociology³ - The Department of Sociology offers students a unique opportunity to cultivate their intellectual curiosity and social awareness, and to develop their capacity to engage in a critical, informed and self-reflective way with the key social institutions, relationships and processes shaping the world in which they live. Sociology, by its very nature, encompasses all spheres of social life. Accordingly, it allows students to delve into a rich variety of fascinating topics of the greatest historical and contemporary relevance: animal studies; gender; sexism; family life; sexuality; race and racism; cultural identity; globalization; imperialism and colonialism; immigration; poverty and class inequality; work and the economy; education; religion; the environment; crime, prisons and social repression and social movements.

Section 2: Target Occupations

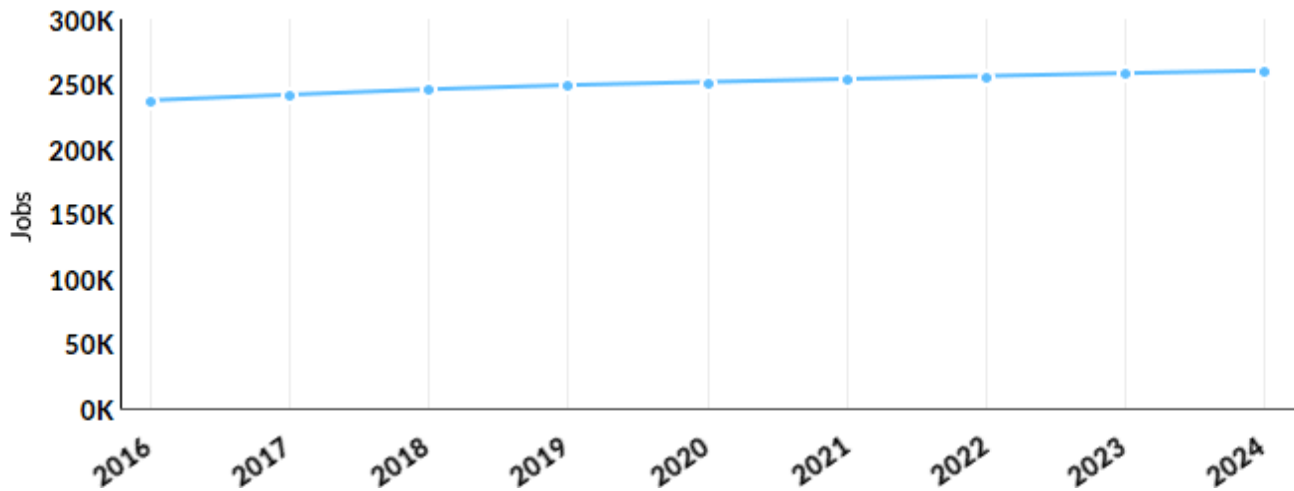
a) Which top growing target occupation are obtained by Alumni?

232,723 Jobs⁷ (2015) 1% above Canada's average	9.7% % Change (2016-2024) Canada: 7.8%	\$32.99/hr Median Hourly Wages⁸ Canada: \$31.03/hr		
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
Early childhood educators and assistants	65,405	\$16.92/hr	13.04%	0.97
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
Education policy researchers, consultants and program officers	7,245	\$37.36/hr	16.01%	1.11



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

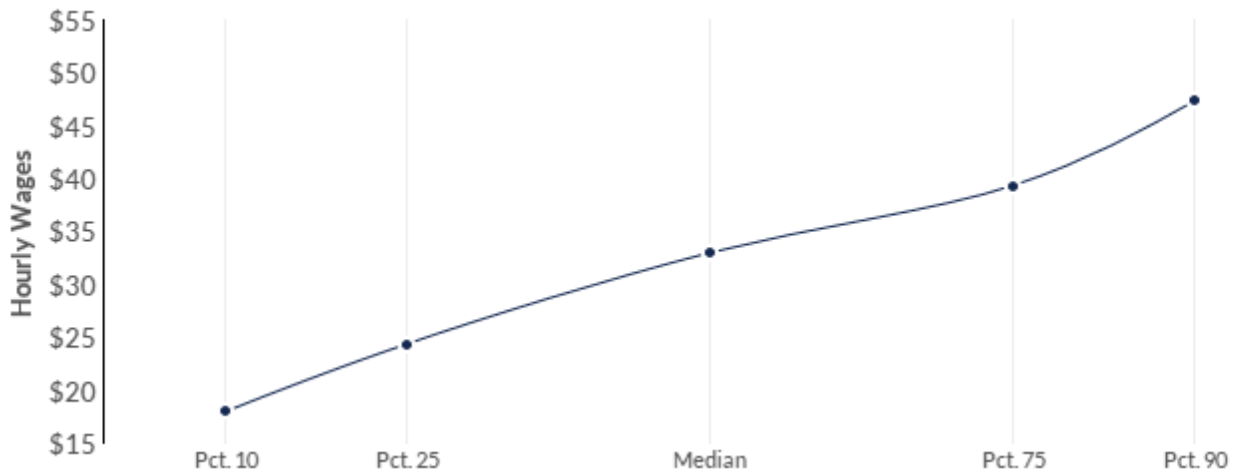
237,366	260,272	22,906	9.7%
2016 Jobs ⁷	2024 Jobs ⁷	Change (2016-2024)	% Change (2016-2024)



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%
Education policy researchers, consultants and program officers (4166)	7,245	8,405	1,160	16%
Early childhood educators and assistants (4214)	65,405	73,931	8,526	13%

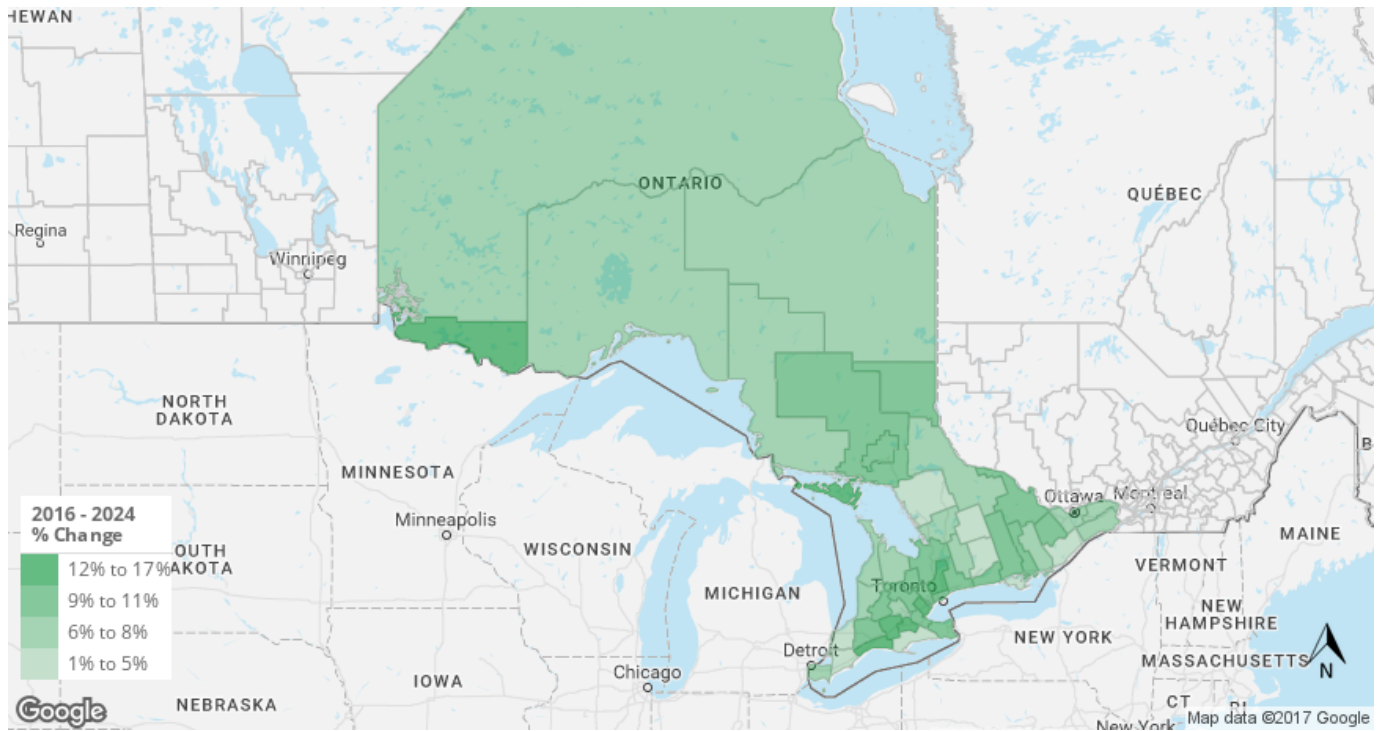
c) How much are these target occupations earning?

\$24.35/hr 25th Percentile Wages ⁸	\$32.99/hr Median Wages ⁸	\$39.34/hr 75th Percentile Wages ⁸
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Occupation	25th Percentile Wages ⁸	Median Wages ⁸	75th Percentile Wages ⁸
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
Education policy researchers, consultants and program officers (4166)	\$30.53	\$37.36	\$46.15
Early childhood educators and assistants (4214)	\$13.59	\$16.92	\$21.32

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



Census Division	Census Division Name	2016 Jobs ⁷	2024 Jobs ⁷	2016 - 2024 Change	2016 - 2024 % Change	2016 Location Quotient	2024 Location Quotient ⁴	Expected Change	2015 Avg. Hourly Wages ⁸
3532	Oxford	1,900	2,228	328	17%	0.92	1.00	149	\$33.45
3534	Elgin	1,240	1,399	159	13%	1.17	1.25	97	\$33.29
3529	Brant	2,360	2,659	299	13%	1.04	1.09	185	\$35.08
3551	Manitoulin	253	284	31	12%	1.25	1.27	20	\$30.97
3524	Halton	10,720	12,006	1,286	12%	1.21	1.24	839	\$32.80
3519	York	19,756	22,121	2,365	12%	1.06	1.08	1,545	\$31.90
3559	Rainy River	620	693	73	12%	1.94	2.02	49	\$33.17
3552	Sudbury	355	394	39	11%	1.27	1.29	28	\$34.19
3531	Perth	1,183	1,311	128	11%	0.76	0.77	92	\$34.28
3521	Peel	23,193	25,686	2,493	11%	0.92	0.94	1,815	\$32.70
3514	Northumberland and	1,053	1,165	112	11%	1.01	1.04	82	\$31.36
3520	Toronto	57,096	63,139	6,043	11%	1.00	1.02	4,467	\$31.85
3539	Middlesex	8,793	9,688	895	10%	1.04	1.07	688	\$31.42
3522	Dufferin	863	950	87	10%	1.19	1.20	67	\$33.65

Census Division	Census Division Name	2016 Jobs ⁷	2024 Jobs ⁷	2016 - 2024 Change	2016 - 2024 % Change	2016 Location Quotient	2024 Location Quotient ⁴	Expected Change	2015 Avg. Hourly Wages ⁸
3553	Greater Sudbury / Grand Sudbury	3,390	3,727	337	10%	1.11	1.12	265	\$33.25
3554	Timiskaming	504	554	50	10%	0.97	0.99	40	\$33.45
3518	Durham	11,022	12,093	1,071	10%	1.46	1.48	862	\$31.93
3547	Renfrew	1,880	2,060	180	10%	1.13	1.15	147	\$36.73
3525	Hamilton	9,380	10,275	895	10%	1.16	1.18	734	\$35.60
3526	Niagara	6,835	7,469	634	9%	1.03	1.06	535	\$34.87
3512	Hastings	2,431	2,654	223	9%	1.00	1.01	190	\$34.90
3523	Wellington	3,057	3,325	268	9%	0.73	0.73	239	\$33.58
3543	Simcoe	7,199	7,811	612	9%	1.11	1.12	563	\$33.82
3540	Huron	1,017	1,100	83	8%	1.19	1.22	79	\$32.04
3530	Waterloo	8,818	9,503	685	8%	0.89	0.89	690	\$33.73
3506	Ottawa	17,959	19,332	1,373	8%	0.90	0.90	1,405	\$31.18
3560	Kenora	1,372	1,475	103	8%	1.45	1.46	107	\$32.94
3541	Bruce	1,086	1,167	81	7%	0.94	0.93	85	\$34.73
3544	Muskoka	618	664	46	7%	0.69	0.69	49	\$32.31
3558	Thunder Bay	2,668	2,854	186	7%	1.02	1.02	209	\$34.50
3557	Algoma	2,120	2,256	136	6%	1.15	1.14	166	\$33.35
3542	Grey	1,299	1,377	78	6%	0.99	0.97	102	\$34.18
3537	Essex	5,765	6,106	341	6%	0.96	0.95	452	\$34.76
3548	Nipissing	1,449	1,533	84	6%	0.93	0.90	114	\$35.55
3516	Kawartha Lakes	765	808	43	6%	0.95	0.93	60	\$34.05

Brock University continues to play a significant role for employment within our Hamilton-Niagara region

Section 3: Top Three Job Occupation Summaries

a) 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 Required ⁶:

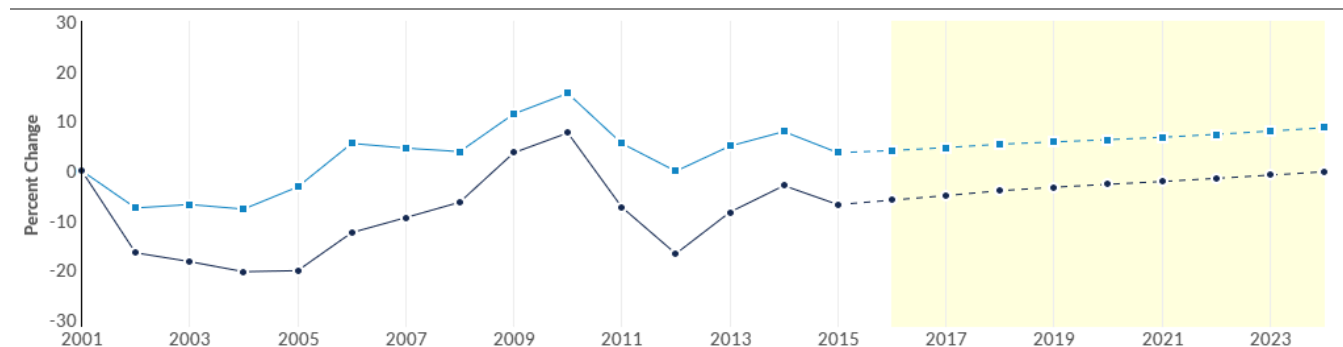
- Computer Based Training Software: Instructional Software
- Microsoft Software: Word, PowerPoint, Excel
- Database and query software: Blackboard, PowerSchool SIS

Skills & Abilities Required ⁶:

- Education and Training: knowledge of principles and methods for curriculum
- Speaking: talking to others to convey information
- Deductive Reasoning: apply rules to problems to produce sensible answers

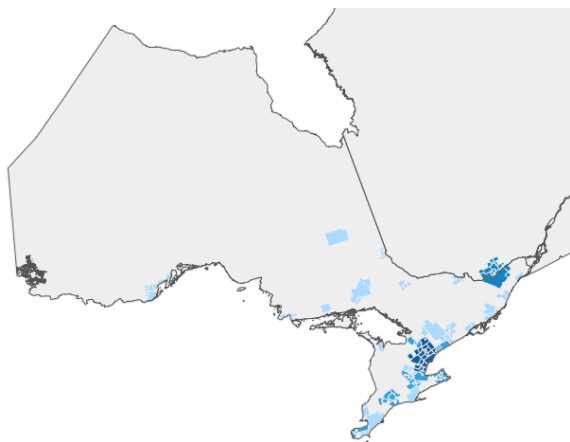
41,838 Jobs ⁷ (2015) 3% above Canada's average	6.1% % Change (2016-2024) Canada: 4.4%	\$42.60/hr Median Hourly Wages ⁸ Canada: \$38.71/hr
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Ontario Trends



	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?

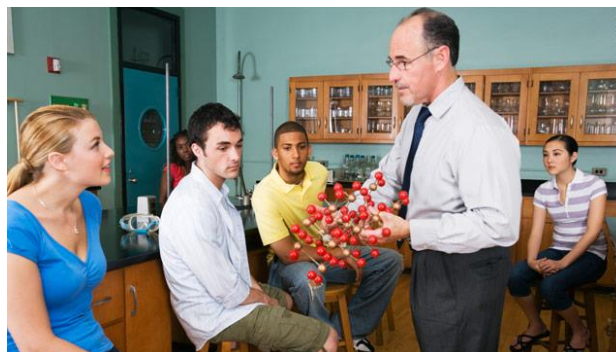


Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	19,273
Ottawa - Gatineau	4,508
Hamilton	3,649
Kitchener - Cambridge - Waterloo	1,672
St. Catharines - Niagara	1,667

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%

There is an increase of 2,500+ Secondary school teaching jobs by 2024.



b) Early Childhood Educator and Assistant

Early childhood educators plan, organize and implement programs for children between the ages of infancy and 12 years. Early childhood educator assistants provide care for infants and preschool- to school-age children under the guidance of early childhood educators. Early childhood educators and assistants lead children in activities to stimulate and develop their intellectual, physical and emotional growth and ensure their security and well-being. They are employed in child-care centres, daycare centres, kindergartens, agencies for exceptional children and other settings where early childhood education services are provided. Supervisors of early childhood educators and assistants are included in this unit group.⁵

Technology Skills Required⁶:

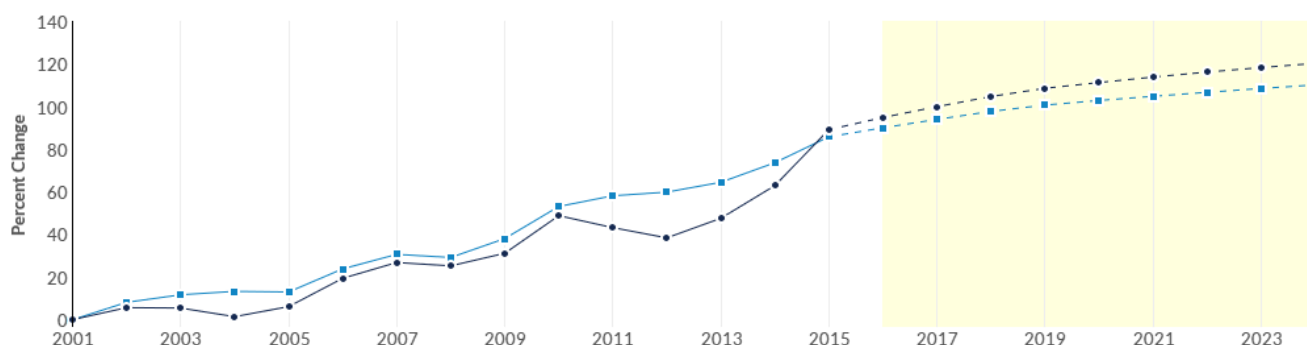
- Microsoft Software: Excel, Word

Skills & Abilities Required⁶:

- Oral Expression: ability to communicate information and ideas
- Assisting and Caring for Other: providing personal assistance, medical attention, emotional support

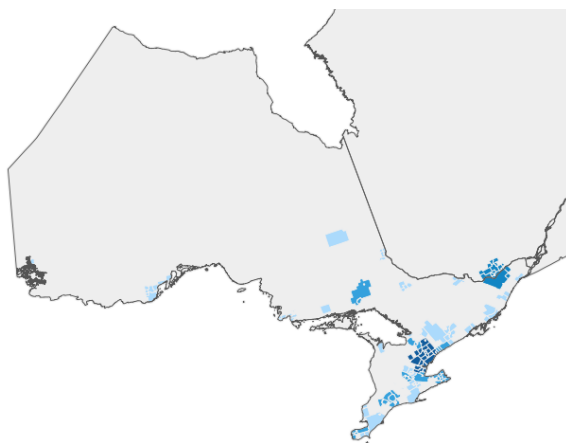
63,495 Jobs ⁷ (2015) 4% below Canada's average	13.0% % Change (2016-2024) Canada: 10.6%	\$16.92/hr Median Hourly Wages ⁸ Canada: \$17.61/hr
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Ontario Trends



	Region	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
•	Ontario	65,405	73,931	8,526	13.0%
•	Canada	176,585	195,290	18,705	10.6%

Where are the most jobs in Ontario for Early Childhood Educators and Assistants?



Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	38,736
Ottawa - Gatineau	8,804
London	3,770
Hamilton	2,501
Oshawa	2,339

Who are employing Early Childhood Educators and Assistants?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Child day-care services	37,964	59.8%	91.2%
Elementary and secondary schools	5,593	8.8%	2.0%
Individual and family services	3,629	5.7%	6.7%
Local, municipal and regional public administration	3,463	5.5%	1.9%
Civic and social organizations	3,460	5.4%	11.6%

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

c) Elementary and Kindergarten School 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 schools. ⁵

Technology Skills Required⁶:

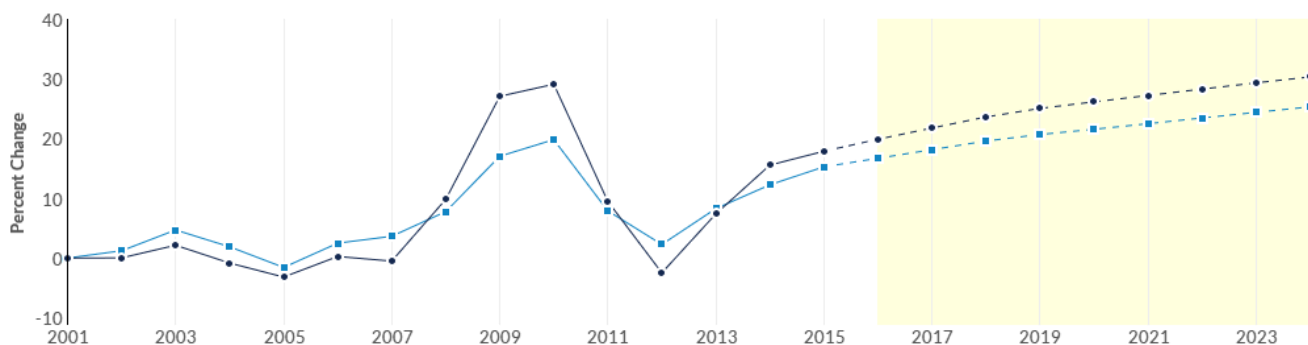
- Microsoft Software: Outlook, Word, Excel
- Database and query Software: Individualized Educational Program IEP software

Skills & Abilities Required⁶:

- Education and Training: knowledge of principles and methods for curriculum and training design for individuals
- Critical Thinking: use logic to identify alternative solutions

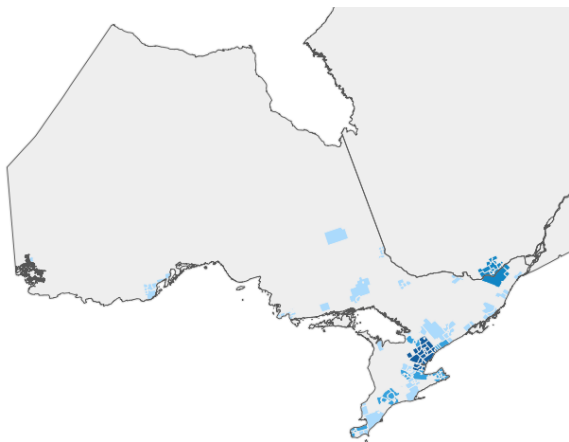
81,580 Jobs⁷ (2015) 8% above Canada's average	8.7% % Change (2016-2024) Canada: 7.4%	\$39.42/hr Median Hourly Wages⁸ Canada: \$36.31/hr
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Ontario Trends



	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 and Kindergarten School Teacher?



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 and Kindergarten School Teacher?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Elementary and secondary schools	80,341	98.5%	28.4%
Other schools and instruction	849	1.0%	3.0%
Educational support services	160	0.2%	4.0%
Provincial and territorial public administration	41	0.1%	0.1%
Religious organizations	27	0.0%	0.1%



Reference and Notes

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

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

³ <https://brocku.ca/webcal/2016/undergrad/soci.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.