

Student Transitions and Mobility With a Focus on Kwantlen Polytechnic University

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**PRESENTED TO
KWANTLEN POLYTECHNIC
UNIVERSITY**

**By
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Devron, Gaber, BCCAT**

August 27, 2009

AGENDA

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STP BACKGROUND

**STUDENT TRANSITIONS OF
GRADE 12 GRADUATES**

GPA'S

**CREDENTIAL & PROGRAM
DESTINATIONS**

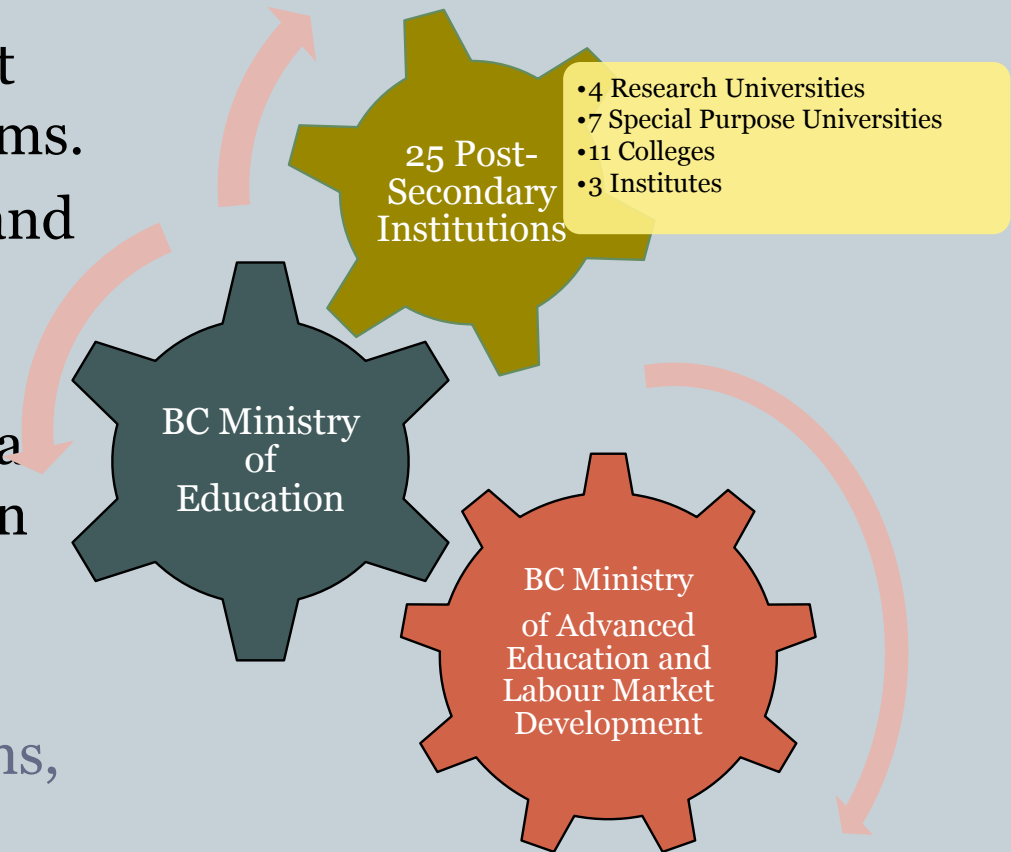
STUDENT MOBILITY

MULTIPLE / SIMULTANEOUS ENROLLMENT

Student Transitions Project (STP)

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- STP began in 2005.
- Collaborative research effort across BC's Education systems.
- BC Council on Admissions and Transfer (BCCAT) is also a partner in STP research.
- Used for strategic planning at various levels of education in BC:
 - school districts,
 - post-secondary institutions,
 - government.



STP Purpose

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- **Purpose** of STP is to collect, analyze, and report on data from the K to 12 and post-secondary systems to answer questions on student mobility.
- **Goal** is to provide **reliable information** at **predictable times** and in a **timely manner** to support institutions and government with planning.
- **Outputs** include numerous reports, newsletters, Excel pivot tables and interactive tools on a variety of topics available on public site and a password-protected website to Registrars and IR directors.

STP Governance

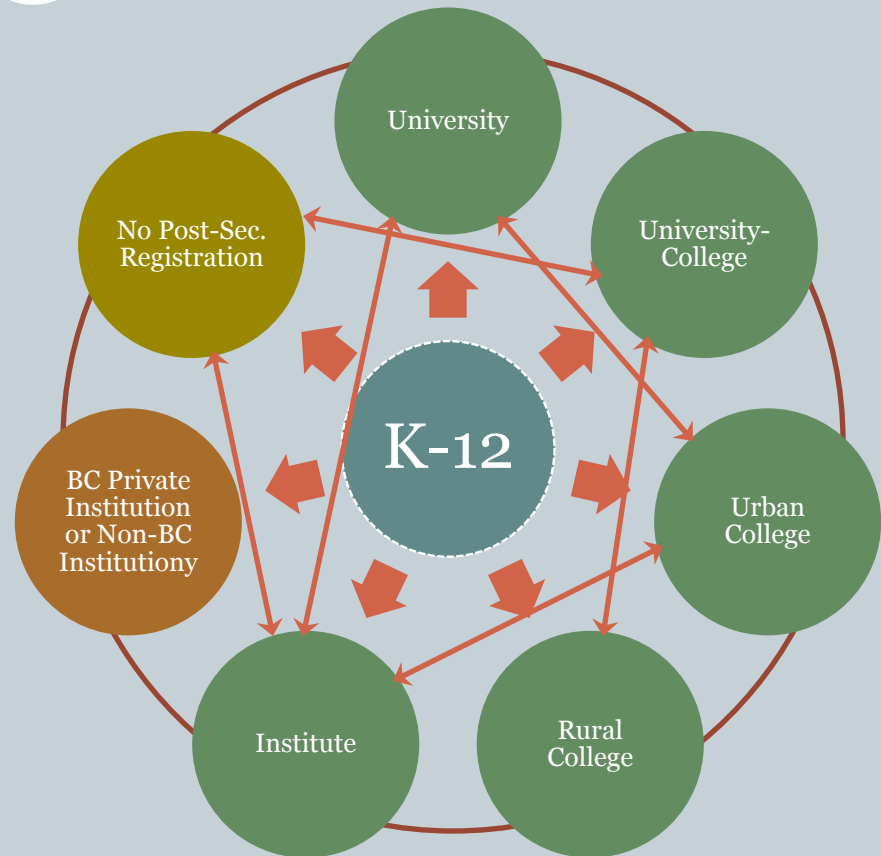
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- Joanne Heslop is STP Manager, seconded to BCCAT from SFU.
- STP is managed by a Steering Committee with supporting subcommittees:
 - Data Management Subcommittee
 - Applicant Research Subcommittee
 - Mobility of Transfer Students Subcommittee
- Steering Committee includes representatives from both Ministries, post-secondary institutions, and BCCAT.

Student Transitions and Mobility

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- STP tracks education transitions and pathways of students:
 - From K-12 to post-secondary,
- AND
- Within the post-secondary system.



Student Transitions – How?

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- Personal Education Number (PEN).
- All students entering K-12 in BC are assigned a nine-digit number. This unique identifier follows students throughout their education in BC.
- STP links the PEN between the education systems to track student transitions while protecting personal privacy.



What's New?

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Six-year transition rates now available.

Student transitions *by term* (up to Fall 2008).

Reporting most recent information– *Fall snapshot*.

Updated student *mobility and stability rates*.

Program CIP codes submitted by all participating post-secondary institutions -> *program mobility*.

Graduate enrollments and student mobility.

First Transitions to BC Public Post-Secondary Education

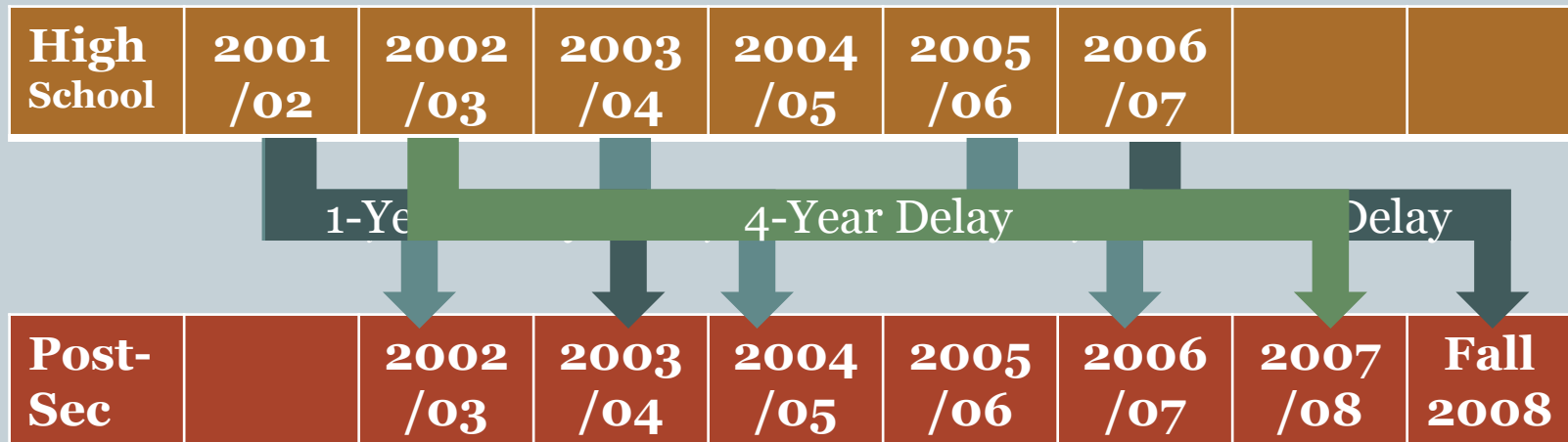
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- **BY YEAR**
- **BY TERM**
- **FALL SNAPSHOT**

What Data is Included?

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- High School Graduates of 2001/02 – 2006/07



- First transitions to BC public post-secondary education: 2002/03 – 2007/08

Student Transitions – When?



5-Year Delay (2%)

4-Year Delay (2%)

3-Year Delay (3%)

2-Year Delay (5%)

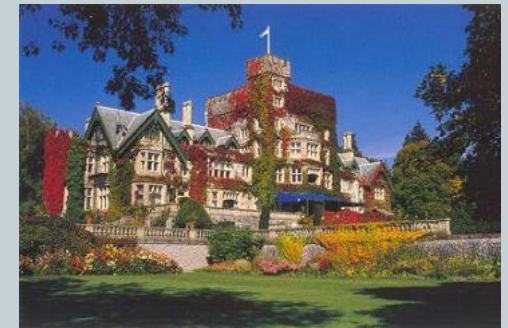
1-Year Delay (11%)

Immediate Entry (51%)

The majority enroll in Fall (44%)



K-12



6-Yr Cumulative Transition Rate = 74%

Using the Past to Predict the Future -- Number of Students by Year:

- (1) Enrolled in Grade 12, (2) Eligible to Graduate,
- (3) Grade 12 Graduate, (4) Registrant in BC Public PSI

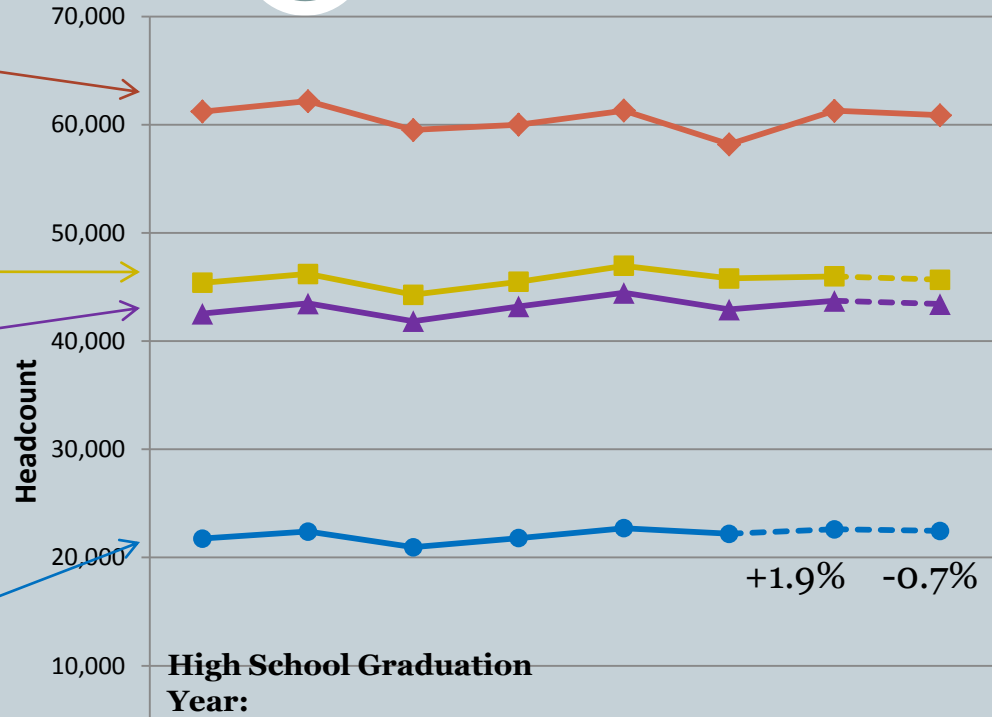
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Grade 12 enrollment fluctuates from year to year, with a high of 61,297 in 2005/06 and a low of 58,175 in 2006/07.

The share of registered grade 12's who are **eligible to graduate** ranges from 74% to 79% of grade 12's enrolled.

94% to 95% of eligible grade 12's **graduate** each year.

Roughly 50-52% of grade 12 graduates **transition to a BC public post-secondary institution** within one year of high school graduation each year.



	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	2005/ 2006	2006/ 2007	2007/ 2008	2008/ 2009
BC12 Enrollment	61,207	62,166	59,517	59,994	61,297	58,175	61,291	60,876
# Eligible to Graduate	45,390	46,205	44,287	45,480	46,962	45,791	45,987	45,676
# BC Grade 12 Graduates	42,542	43,486	41,837	43,205	44,465	42,919	43,723	43,427
Immediate Entry to BC Public PSI	21,747	22,400	20,952	21,791	22,714	22,191	22,607	22,454

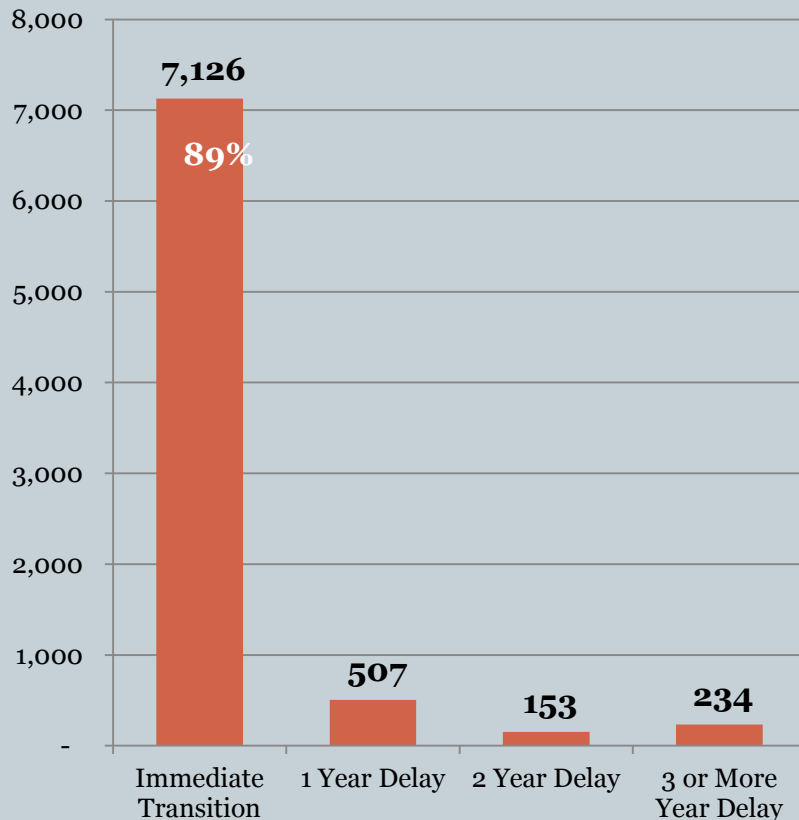
Differences in Time of Entry by Destination

(2001/02 Grads Who Enrolled Over a 6-Year Period)



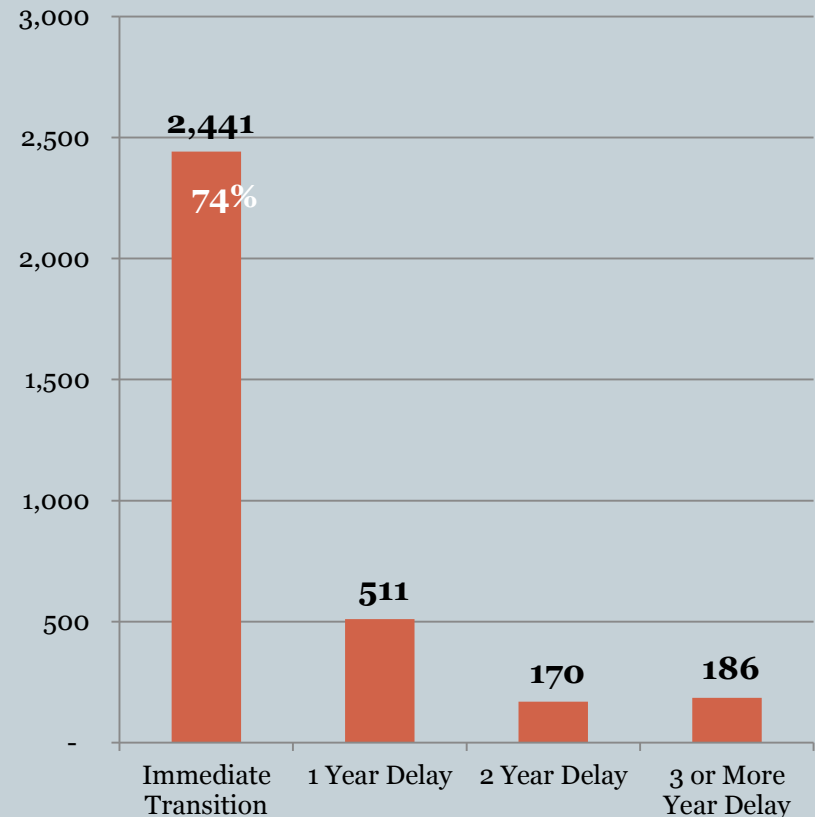
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Research Universities (N = 8,020)



89% enrolled immediately;
11% delayed entry (excluding non-transitioners).

Kwantlen Polytechnic University (N = 3,308)



74% enrolled immediately;
26% delayed entry (excluding non-transitioners).

GPA Distributions and ...

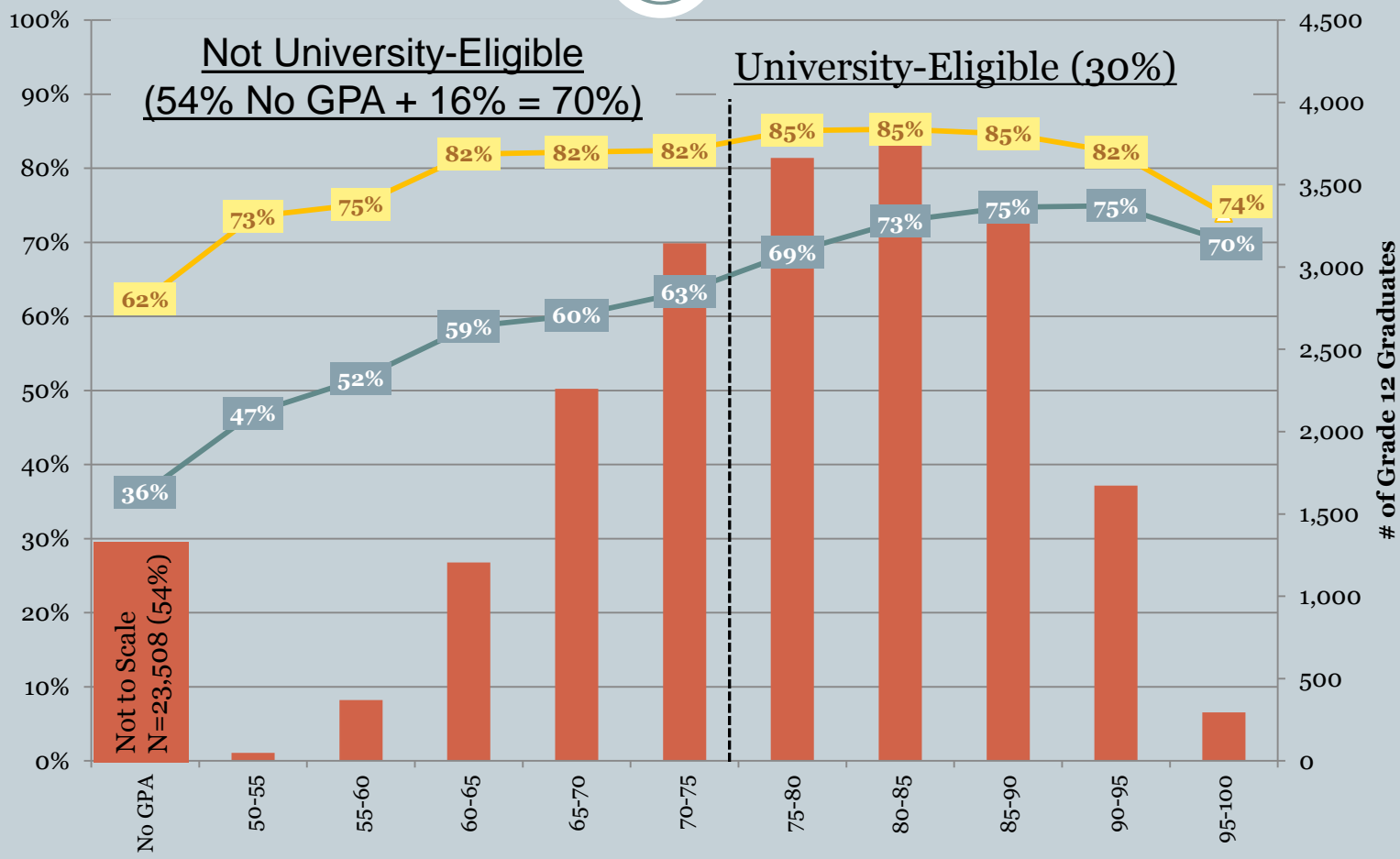
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TRANSITION RATES

**POST-SECONDARY DESTINATIONS
(PUBLIC AND PRIVATE)**

**CREDENTIAL DESTINATIONS OF
KWANTLEN REGISTRANTS**

Immediate-Entry and Cumulative 5-Yr Transition Rates of 2001/02 Grads, by Academic GPA in High School

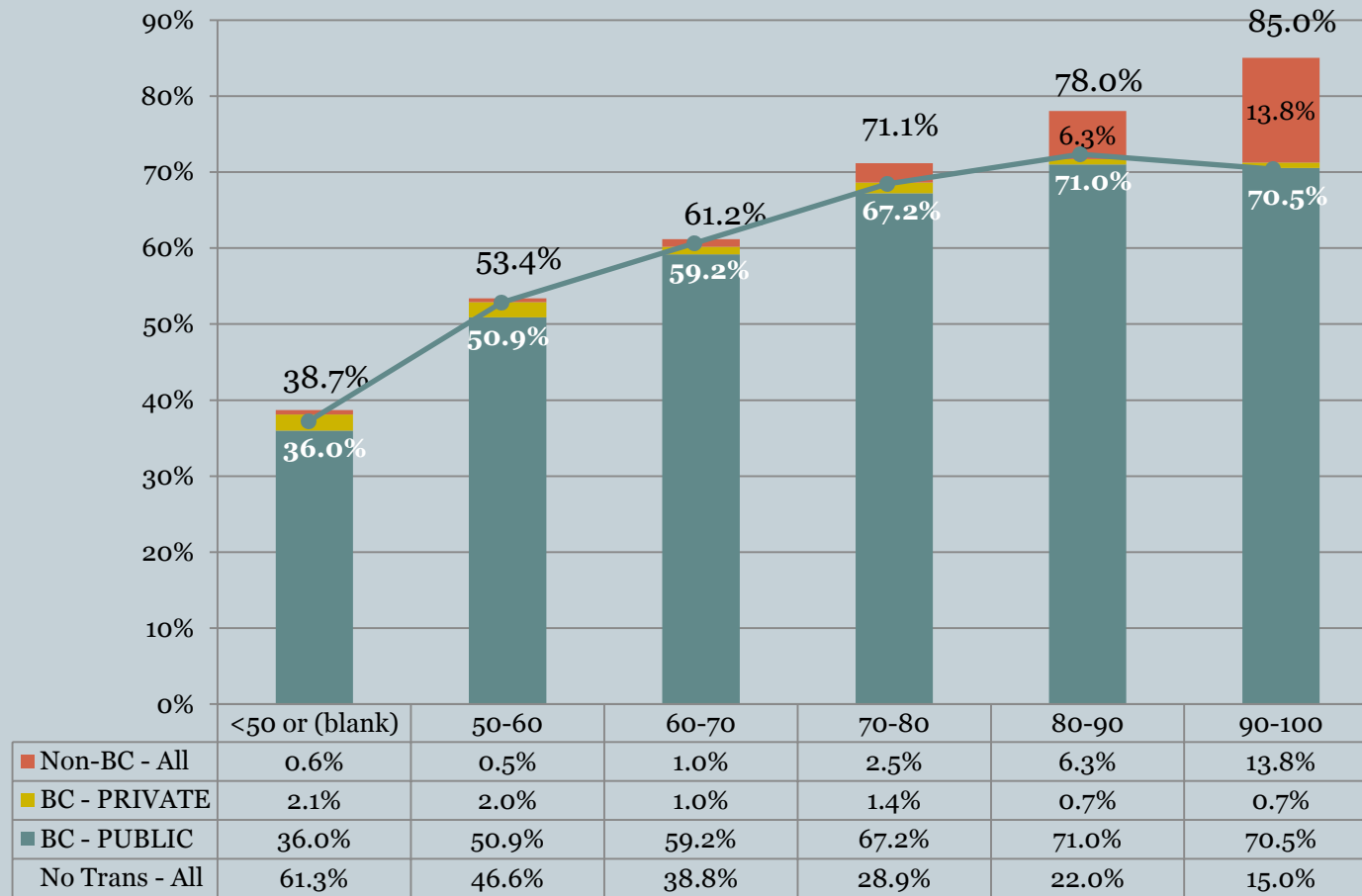


■ # Grade 12 Graduates of 2001/02
 —□— Immediate Entry Transition Rate
 —△— 5-Yr Cumulative Transition Rate

Transition rates are % of graduation cohort that entered BC public post-secondary education.

Immediate Entry Transitions Into All Sectors by GPA (2005/2006 High School Graduates)

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Top 20 Non-BC Post-Secondary Destinations of 2001/02 BC High School Graduates



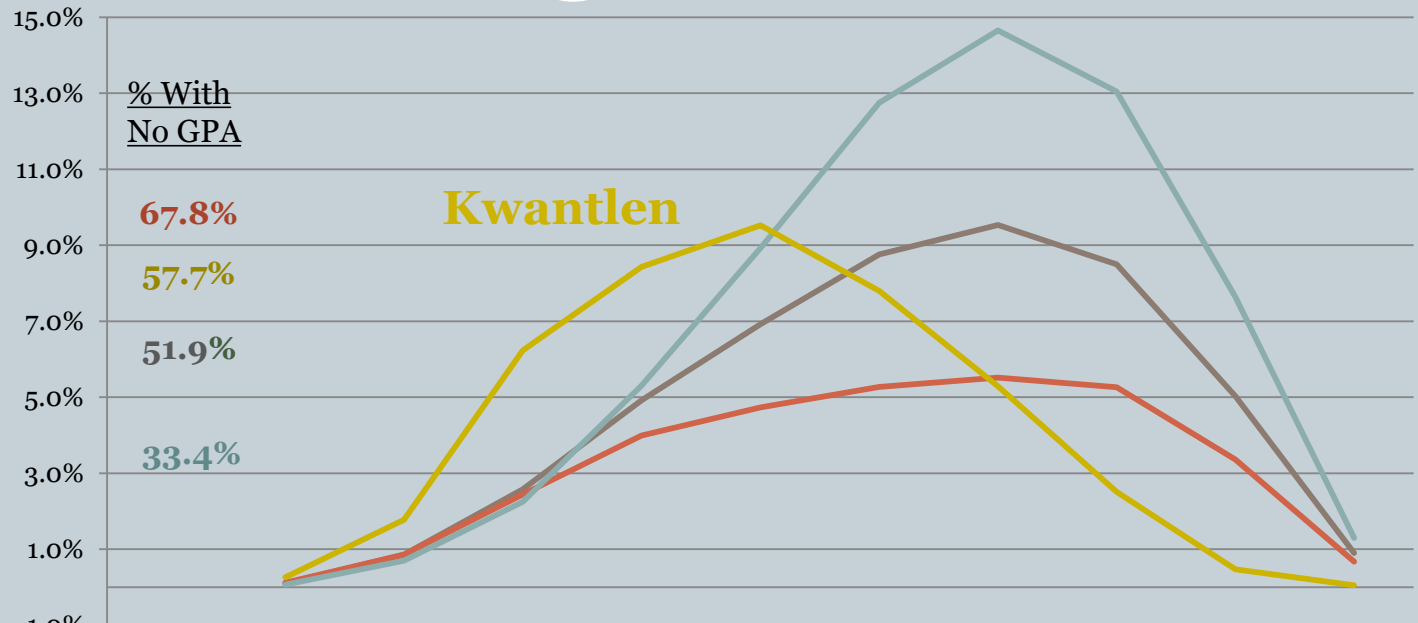
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Can you name the top 3 post-secondary destinations of BC Grade 12 graduates outside of BC?

psi_name	prov_sta	Total
UNIVERSITY OF TORONTO	ON	118
UNIVERSITY OF ALBERTA	AB	95
MCGILL UNIVERSITY	QC	86
UNIVERSITY OF CALGARY	AB	78
MOUNT ROYAL COLLEGE	AB	50
SOUTHERN ALBERTA INSTITUTE OF TECHNOLOGY	AB	45
QUEEN'S UNIVERSITY	ON	44
UNIVERSITY OF WATERLOO	ON	35
LETHBRIDGE COMMUNITY COLLEGE	AB	30
UNIVERSITY OF LETHBRIDGE	AB	26
UNIVERSITY OF WESTERN ONTARIO	ON	21
YORK UNIVERSITY	ON	20
RYERSON UNIVERSITY	ON	20
OLDS COLLEGE	AB	19
NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY	AB	19
CARLETON UNIVERSITY	ON	19
PEACE RIVER BIBLE INSTITUTE	AB	17
MC GILL UNIVERSITY - MONTREAL	QC	16
GRANT MACEWAN COMMUNITY COLLEGE	AB	16

GPA Distributions and Institution Destinations of 2006/07 High School Graduates

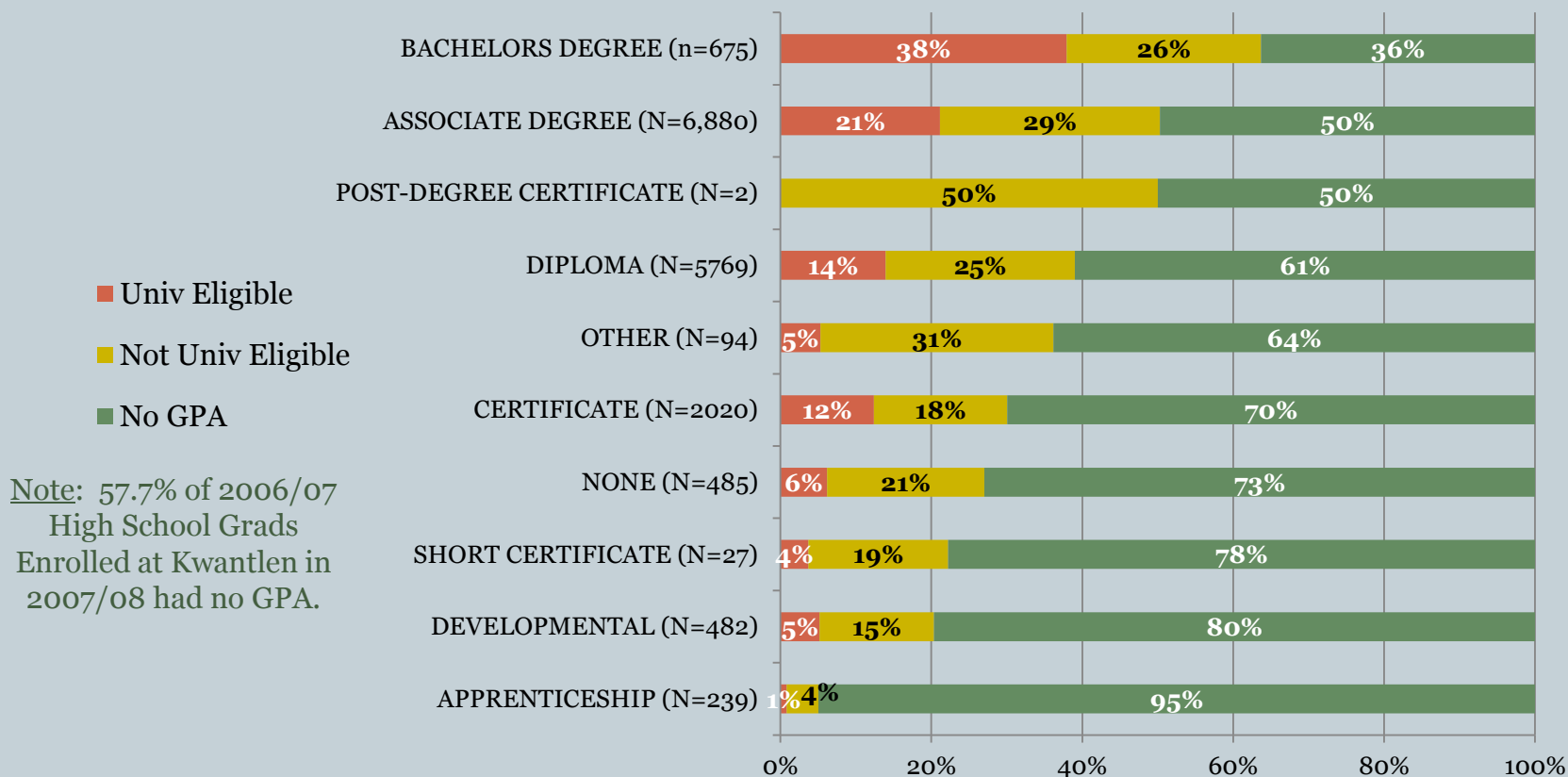
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	None	50 - 54.9	55 - 59.9	60 - 64.9	65 - 69.9	70 - 74.9	75 - 79.9	80 - 84.9	85 - 89.9	90 - 94.9	95 - 100
	No GPA Available	Not Univ Eligible					Univ Eligible				
— 2006/07 Grads	51.9%	0%	1%	3%	5%	7%	9%	10%	8%	5%	1%
— No Trans Yet	67.8%	0%	1%	2%	4%	5%	5%	6%	5%	3%	1%
— Other PSI	33.4%	0%	1%	2%	5%	9%	13%	15%	13%	8%	1%
— Kwantlen	57.7%	0%	2%	6%	8%	10%	8%	5%	3%	0%	0%

GPA calculated from grades in English 12 and best 3 other academic grade 12 subjects. No GPA is calculated for students with insufficient grades.

Academic Quality of BC High School Graduates of 2001/02 to 2006/07 Who Enrolled Immediately at Kwantlen Polytechnic, by Credential Category



Note: 57.7% of 2006/07 High School Grads Enrolled at Kwantlen in 2007/08 had no GPA.

“University Eligible” students have a GPA of 75% or higher. GPA is calculated from grades in Engl 12 and best 3 other academic grade 12 subjects. No GPA for students with insufficient grades.

Immediate-Entry Trends, Credentials and Programs

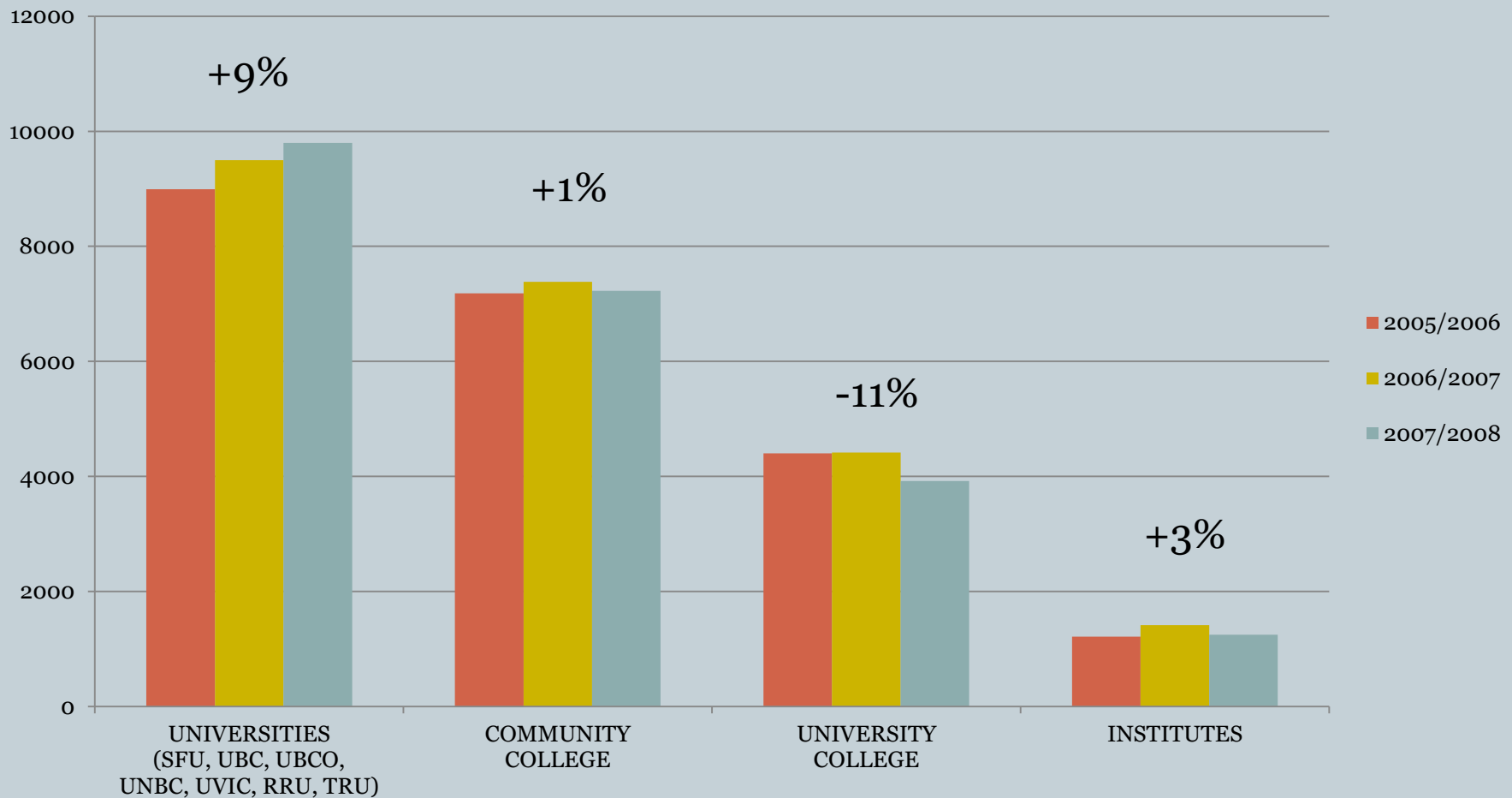
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NEW THIS YEAR:

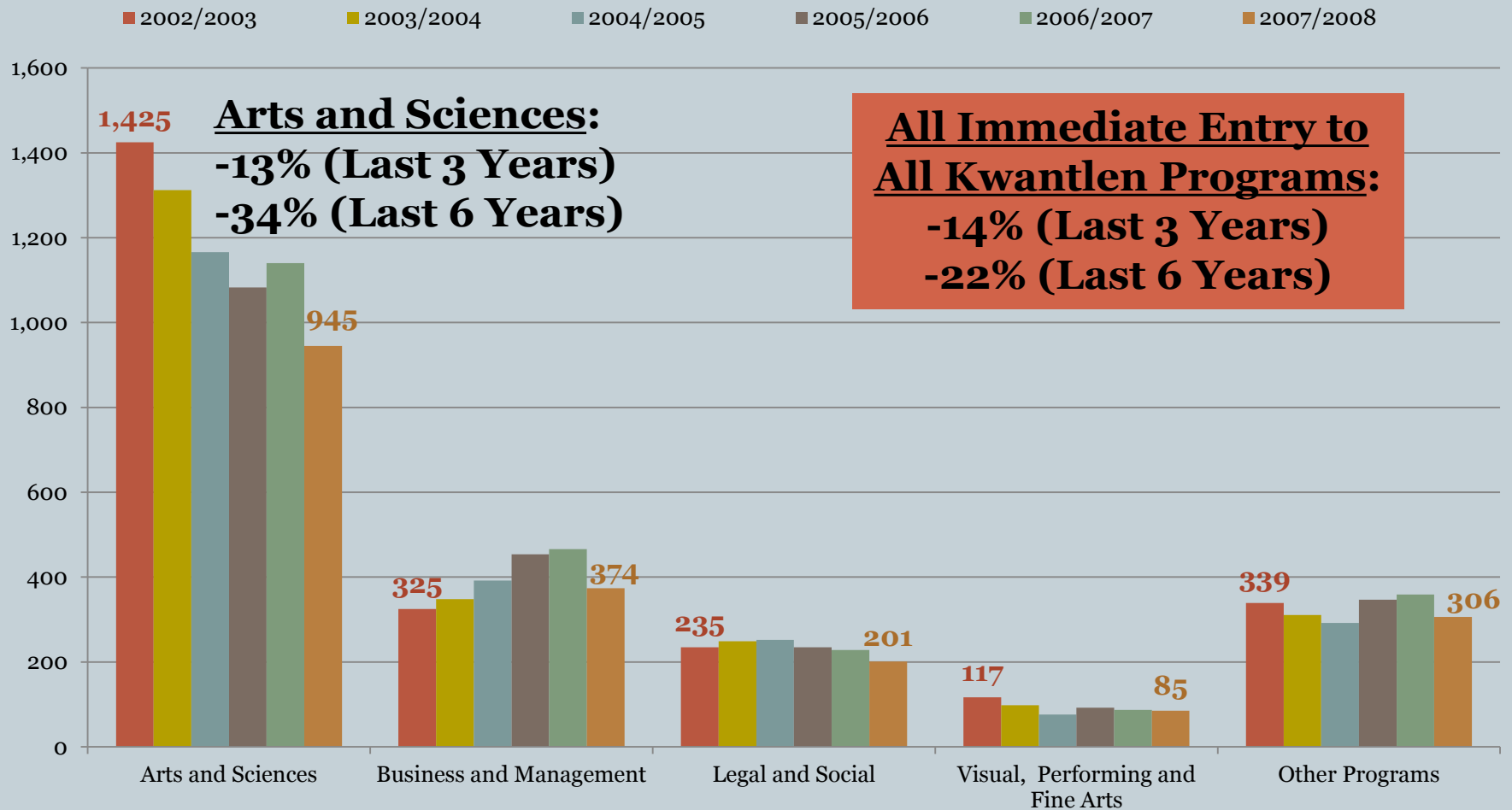
**CONSISTENT SYSTEM-WIDE
PROGRAM INFORMATION**

Immediate-Entry Enrollment Trends, by Sector (2005/06 to 2007/08)

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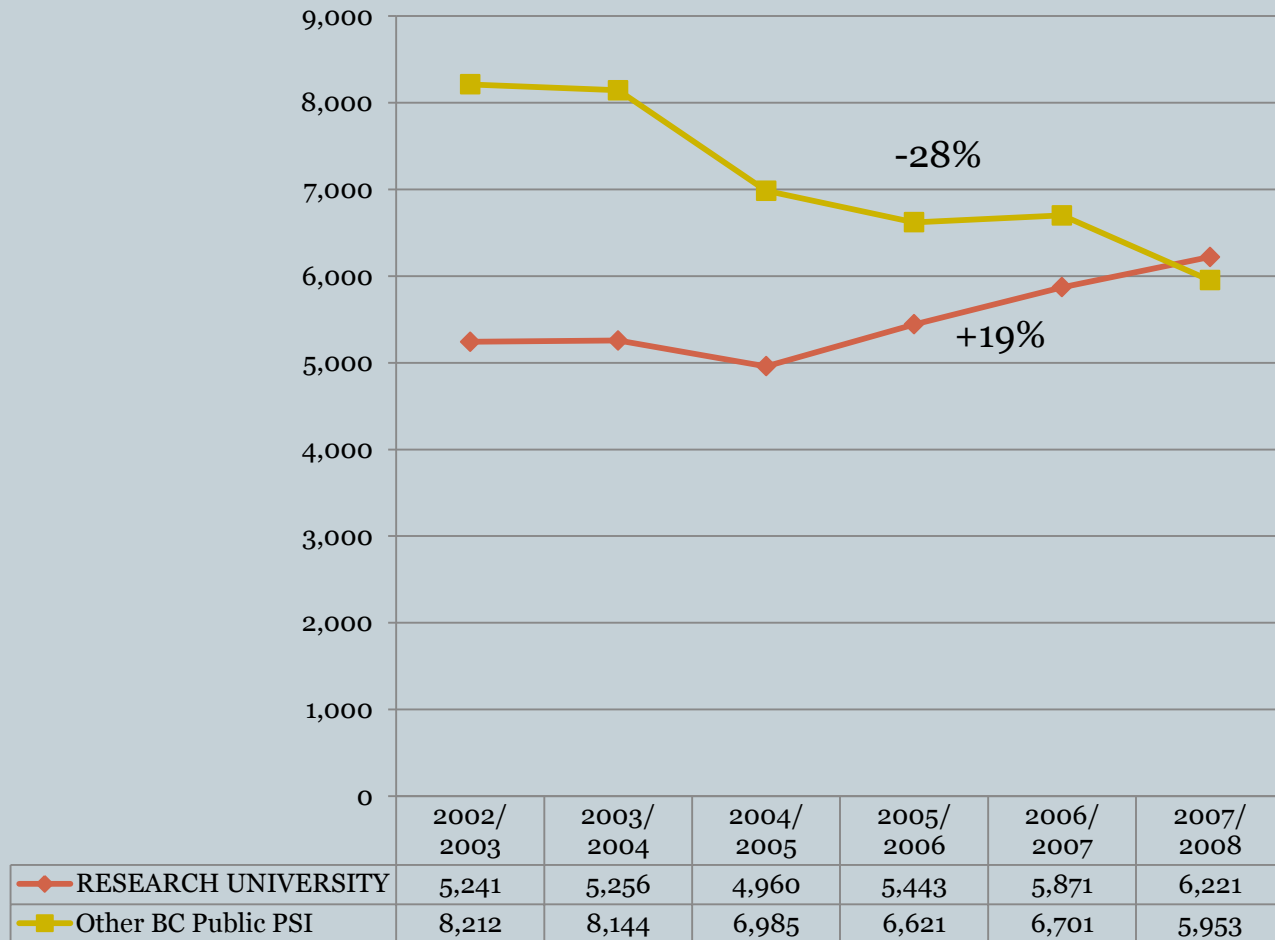
Kwantlen Immediate Entry Destinations by Program (2002/03 to 2007/08)



Immediate-Entry to Arts & Sciences Programs in BC Public Post-Secondary Institutions



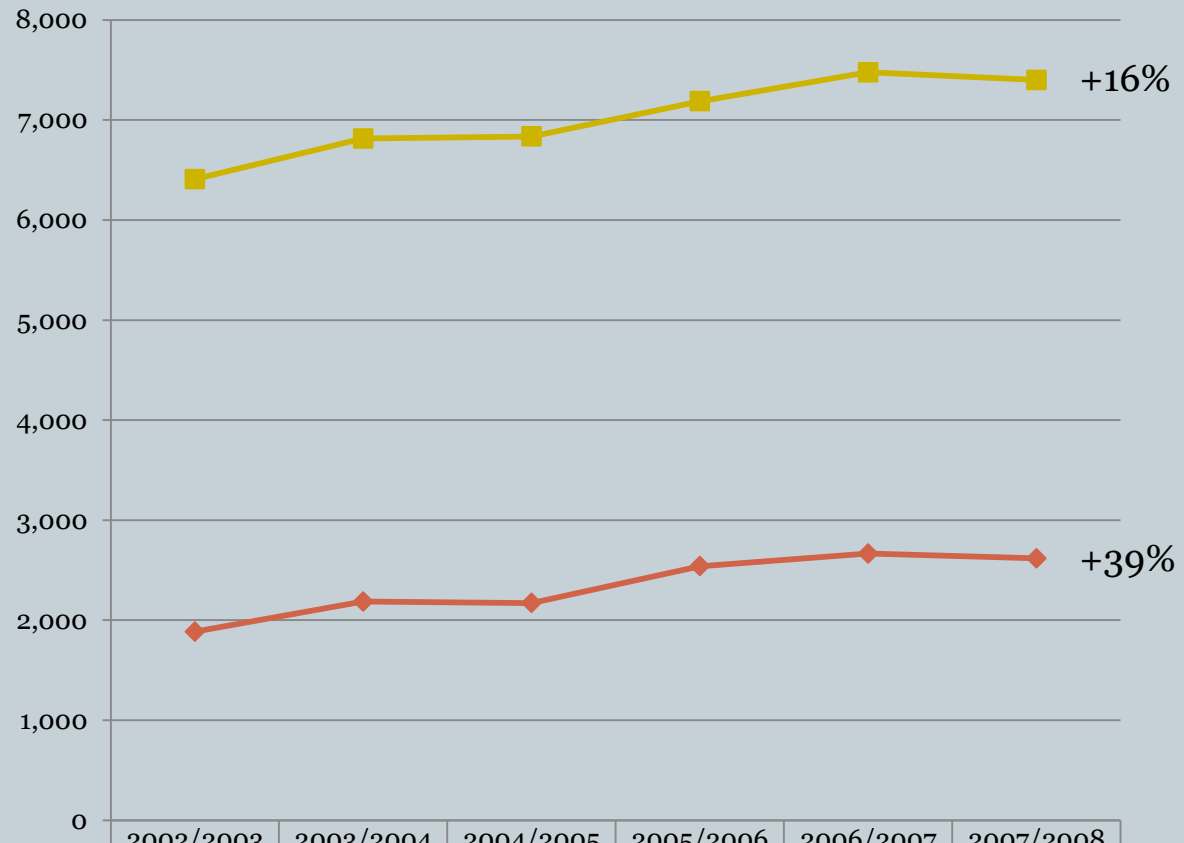
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Includes students in “unknown” programs.

Immediate-Entry to All Other Programs (Non-Arts&Sciences)

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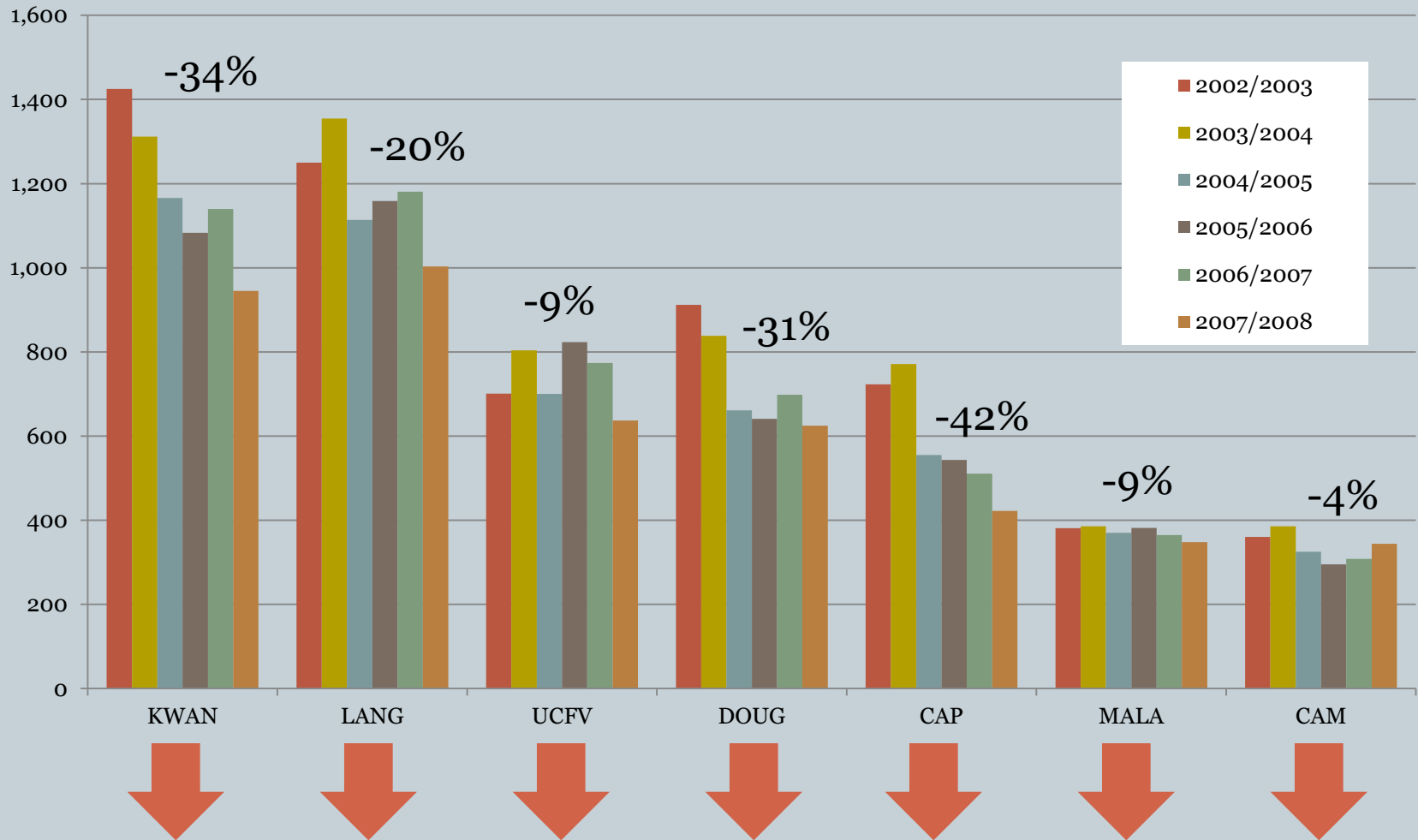


	2002/2003	2003/2004	2004/2005	2005/2006	2006/2007	2007/2008
RESEARCH UNIVERSITY	1,885	2,186	2,171	2,540	2,666	2,617
Other BC Public PSI	6,409	6,814	6,836	7,187	7,476	7,400

Excludes students in “unknown” programs.

Immediate Entry to Arts & Sciences & 'Unknown', (7 Largest PSI's, Excluding Research Universities)

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Student Mobility: Movement of All Registrants

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MOVEMENT BETWEEN . . .

- ❖ **INSTITUTIONS**
- ❖ **PROGRAMS**
- ❖ **CREDENTIALS**

Who Are “All Registrants”?

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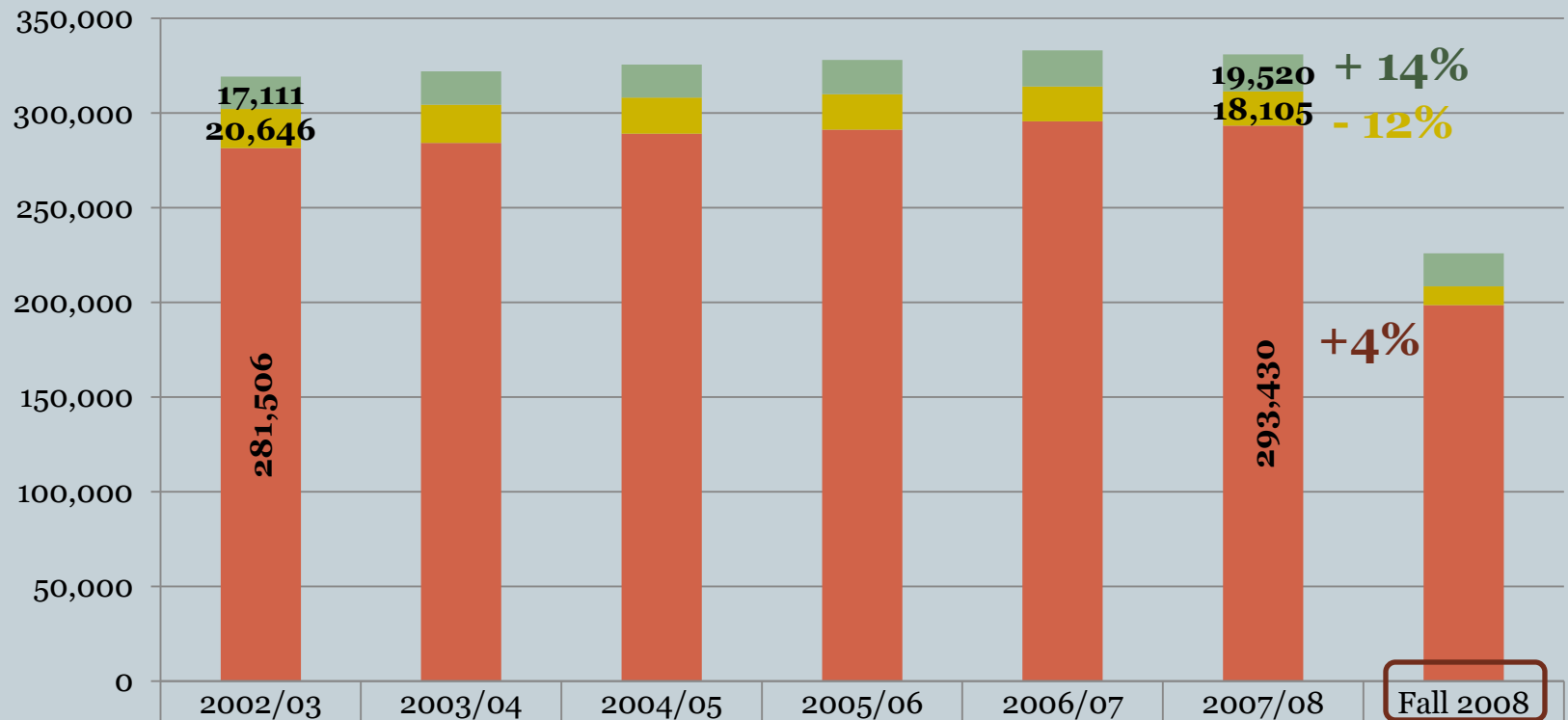
- All Students Enrolled in BC Public Post-secondary Education at any time between Academic Year 2002/03 and Fall 2008.

Post- Sec Yr		2002 /03	2003 /04	2004 /05	2005 /06	2006 /07	2007 /08	Fall 2008
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- Includes high school graduates and non-graduates, mature students, students from out-of province, etc. These are All Registrants, regardless of where they came from.

Volume of Students Enrolled in BC Public Post-Secondary Institutions, 2002/03 to Fall 2008

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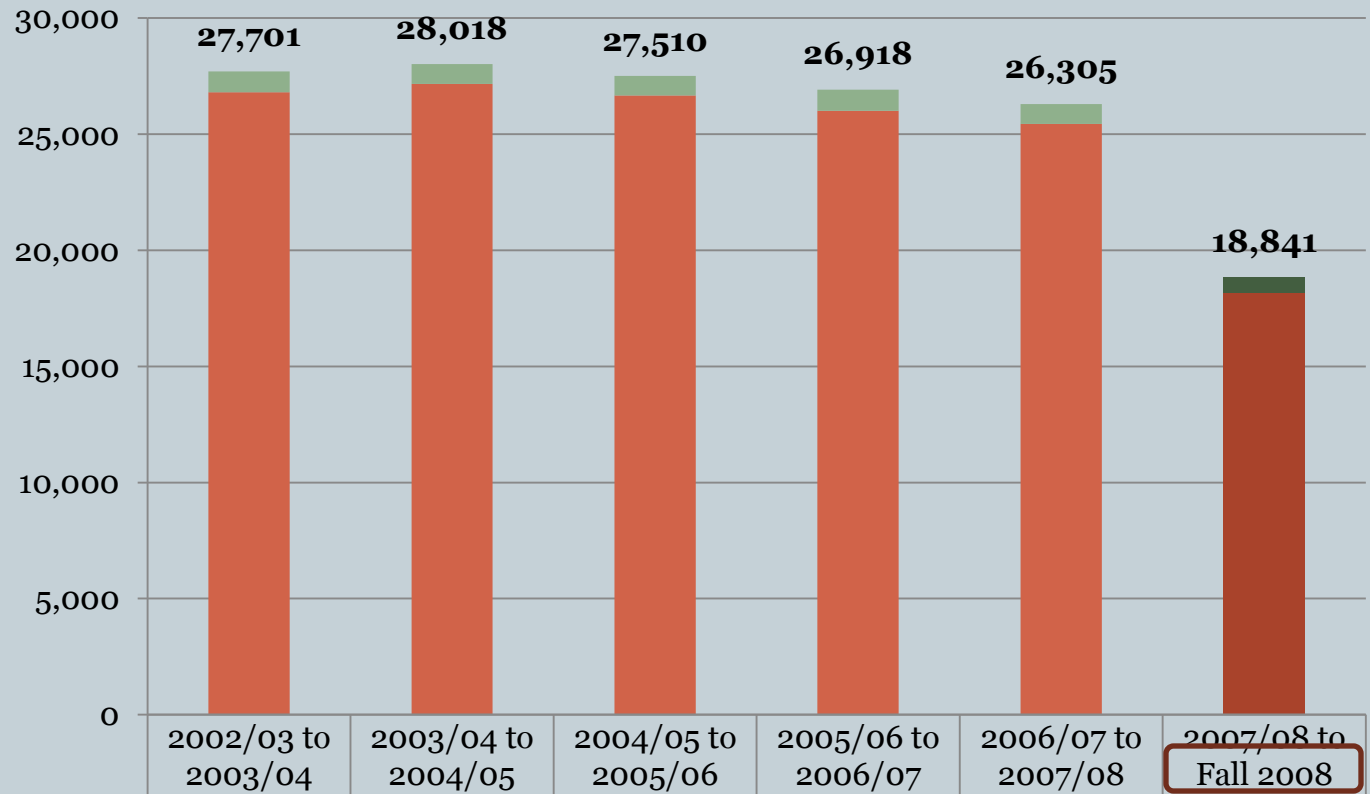


	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	Fall 2008
Graduate	17,111	17,594	17,525	17,956	19,033	19,520	17,339
Developmental	20,646	20,259	19,076	18,833	18,347	18,105	9,898
Undergraduate	281,506	284,282	289,111	291,249	295,703	293,430	198,639
Total	319,263	322,135	325,712	328,038	333,083	331,055	225,876

+ 4%

Volume of Students Who Switched Institutions

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■ Graduate	894	857	843	904	863	652
■ Undergraduate/ Developmental	26,807	27,161	26,667	26,014	25,442	18,189
Total Mobile	27,701	28,018	27,510	26,918	26,305	18,841

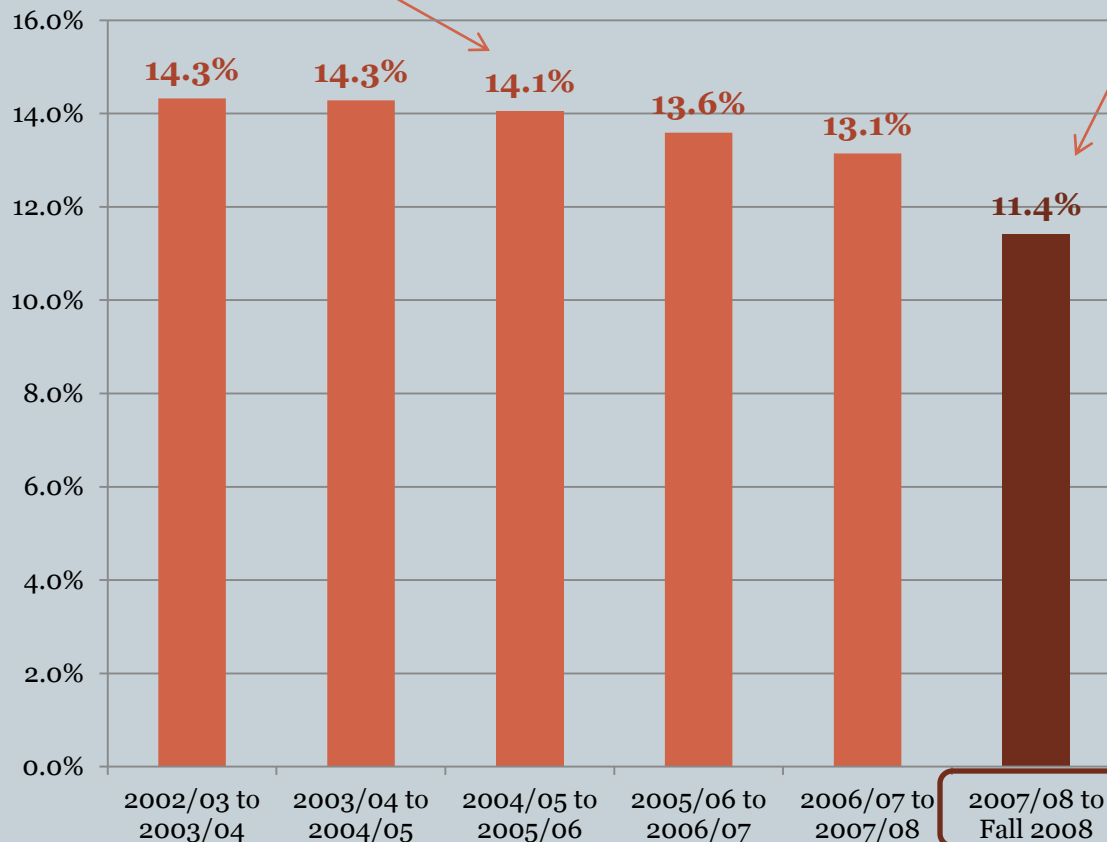
- 5%

Annual Movement Between Institutions: Student Mobility Rate for All Registrants

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Mobility rate adjusted for institution conversions:

UCC/TRU,
OUC/OKAN,
OUC/UBCO,
OLA/TRU-OL.



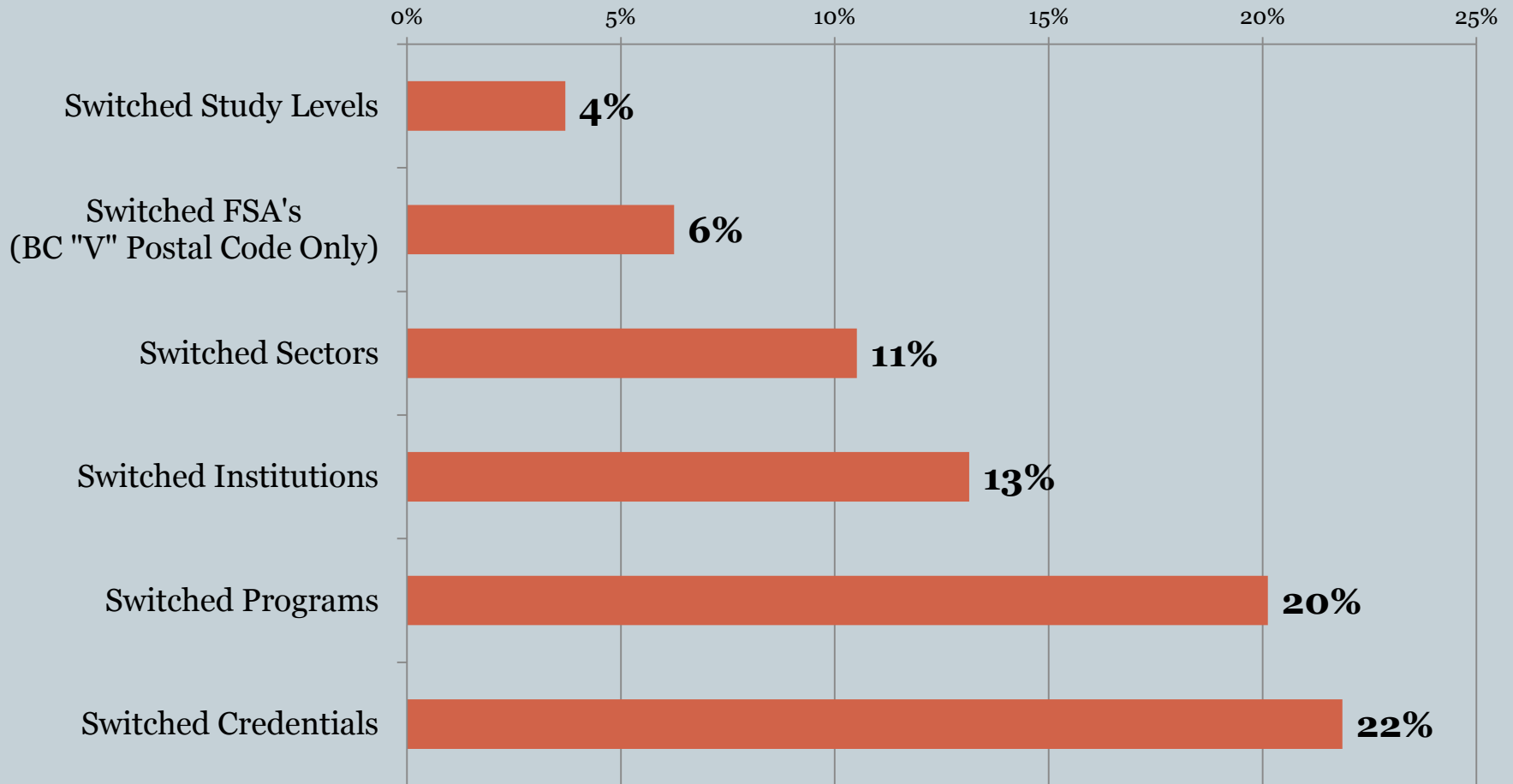
Incomplete year
(Fall 2008 Only)

Adjusted for institution conversions:
CAP/CAPU,
ECIAD/ECU,
UCFV/UFV,
KWAN/KWN,
MALA/VIU.

Types of Student Mobility (2006/07 to 2007/08)



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Student Mobility: Movement of Kwantlen Registrants

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MOVEMENT BETWEEN . . .

- ❖ **INSTITUTIONS**
- ❖ **PROGRAMS**
- ❖ **CREDENTIALS**

Who Are “Kwantlen Registrants”?

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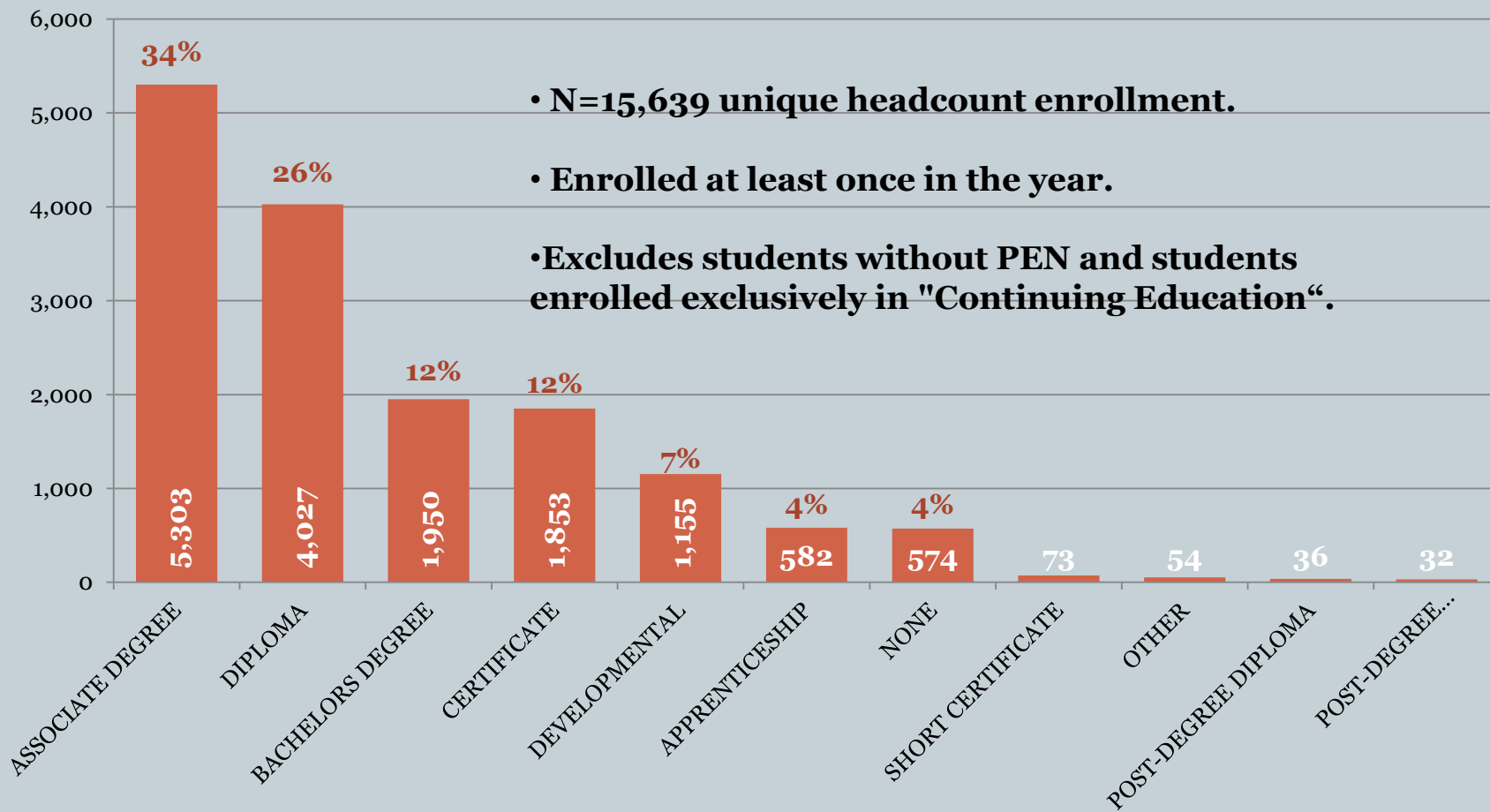
- All Students Enrolled at Kwantlen Polytechnic University at any time between Academic Year 2002/03 and Fall 2008.

Post- Sec Yr		2002 /03	2003 /04	2004 /05	2005 /06	2006 /07	2007 /08	Fall 2008
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- Includes high school graduates and non-graduates, mature students, students from out-of province, etc. These are All Registrants, regardless of where they came from.
- Students enrolled exclusively in Continuing Education are excluded.

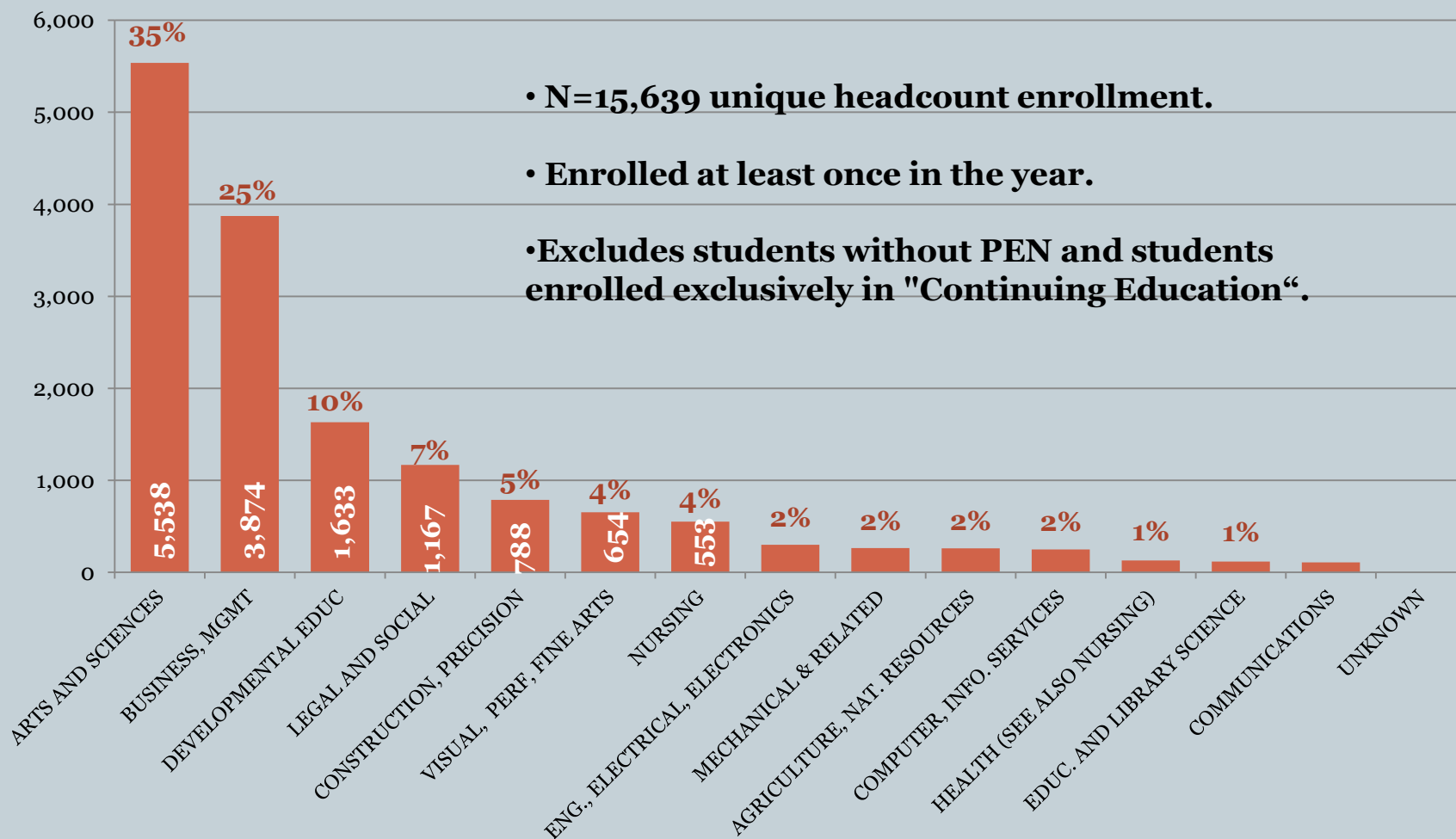
Volume of Kwantlen Registrants in 2006/07, by Credential Sought

34



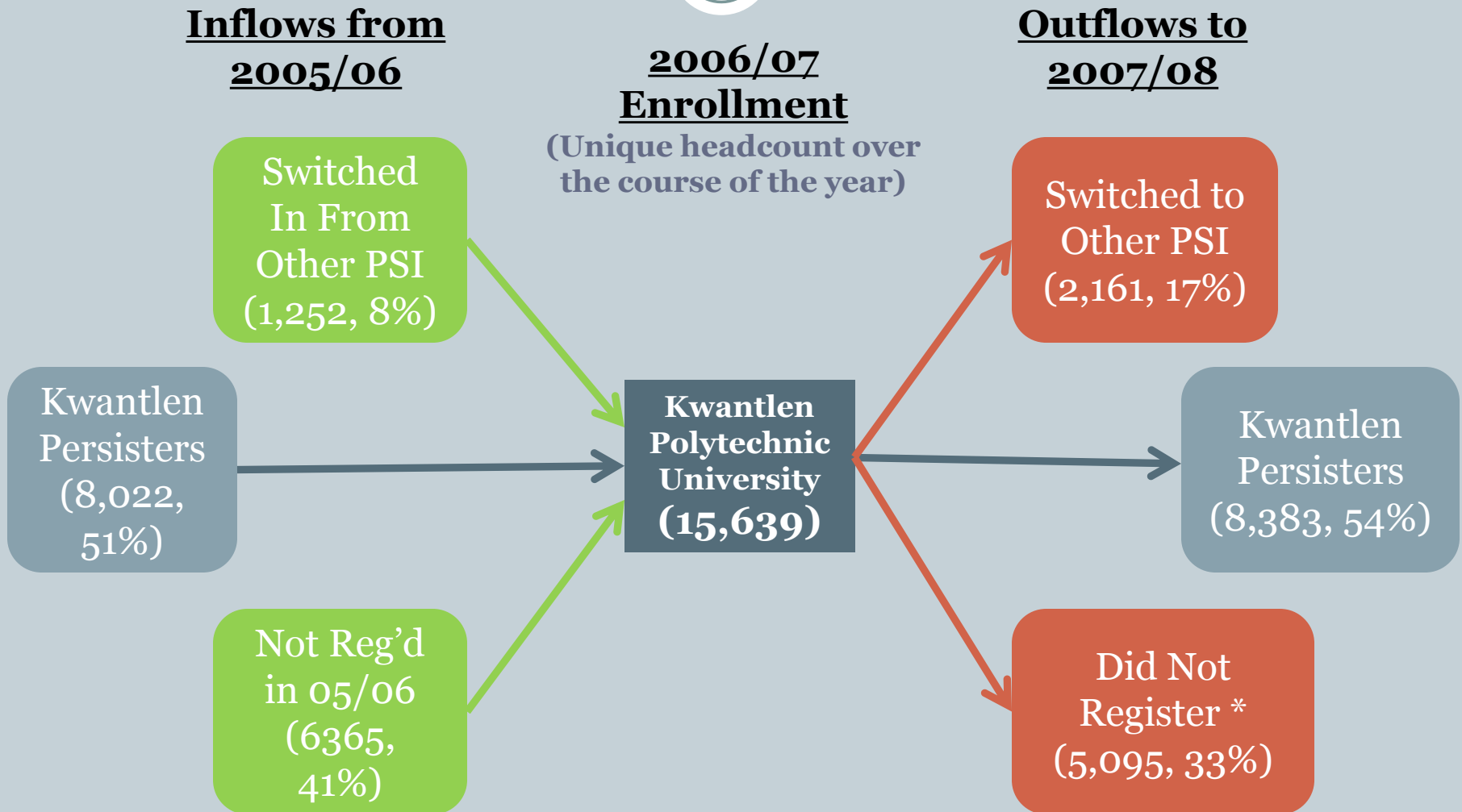
Volume of Kwantlen Registrants in 2006/07, by Program Sought

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2006/07 Kwantlen Enrollment: Student Inflows and Outflows

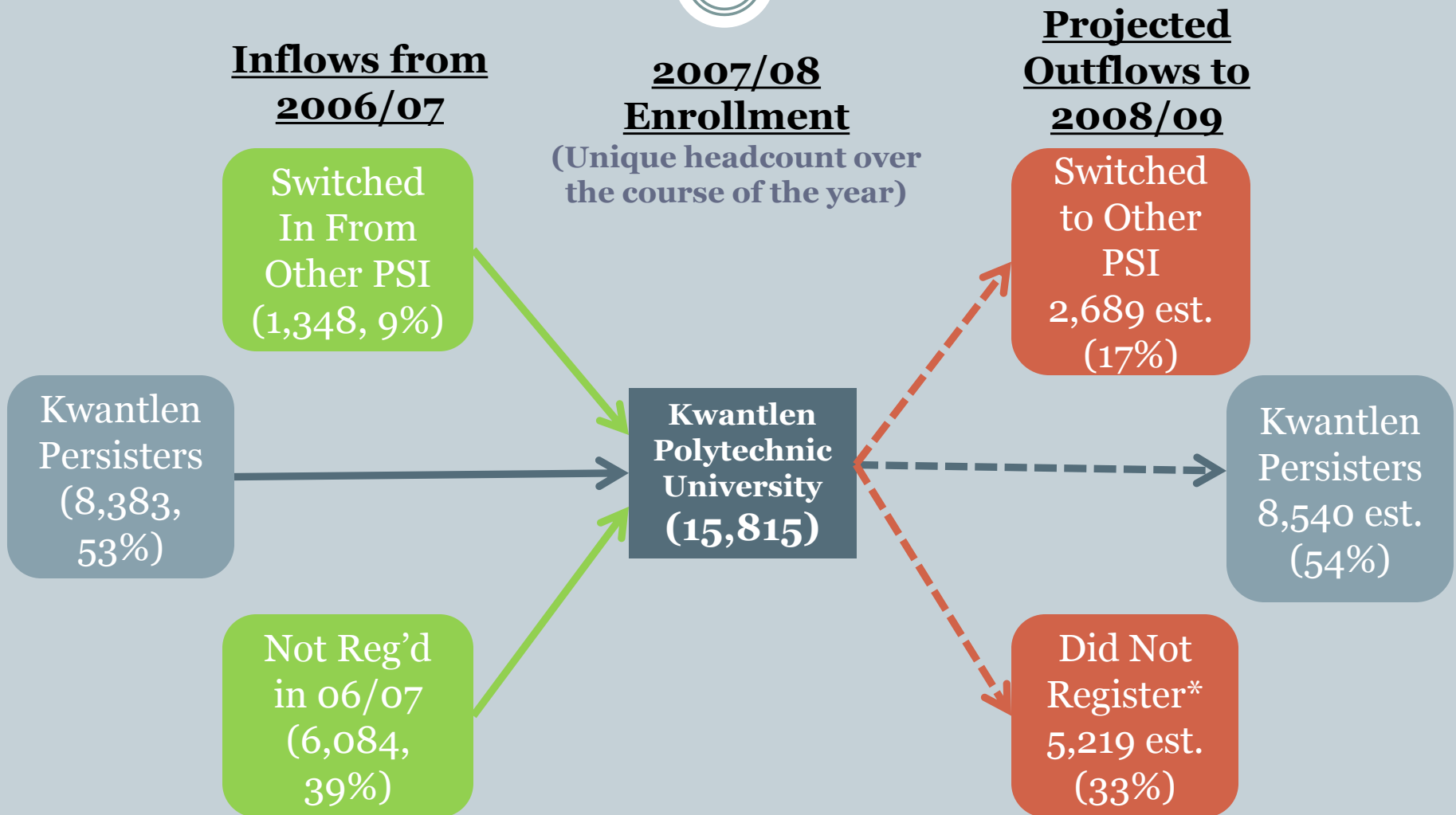
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* Non-registrants includes 968 credential completers.

2007/08 Kwantlen Polytechnic Enrollment: Student Inflows and Projected Outflows

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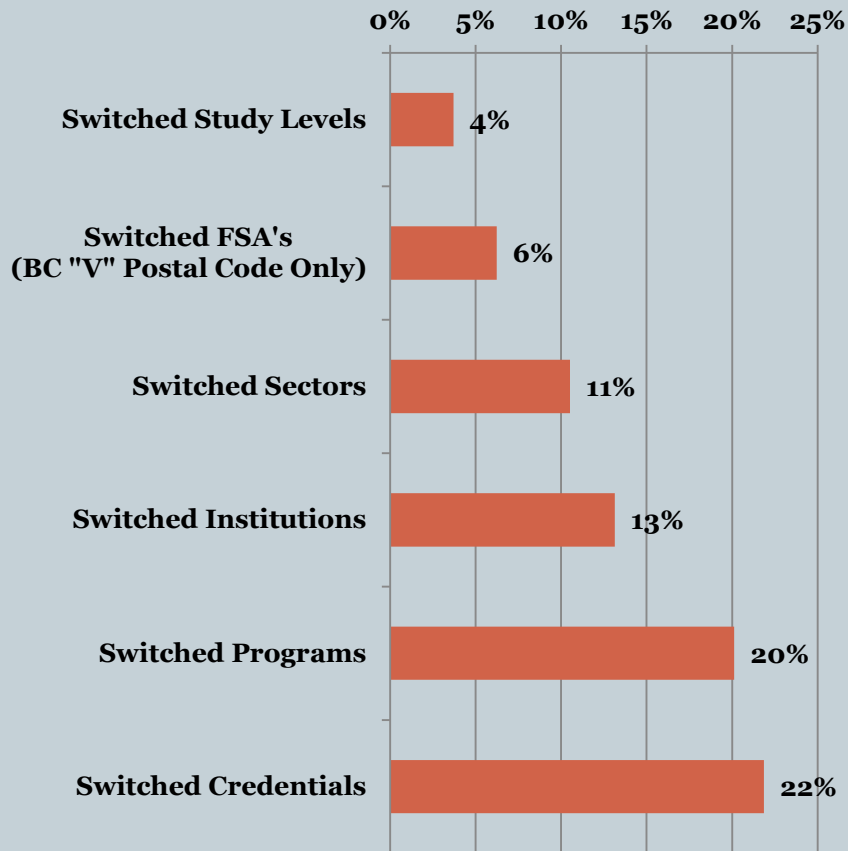
* Projected non-registrants includes a projected 992 credential completers.

Types of Student Mobility – BC vs. Kwantlen (2006/07 to 2007/08)

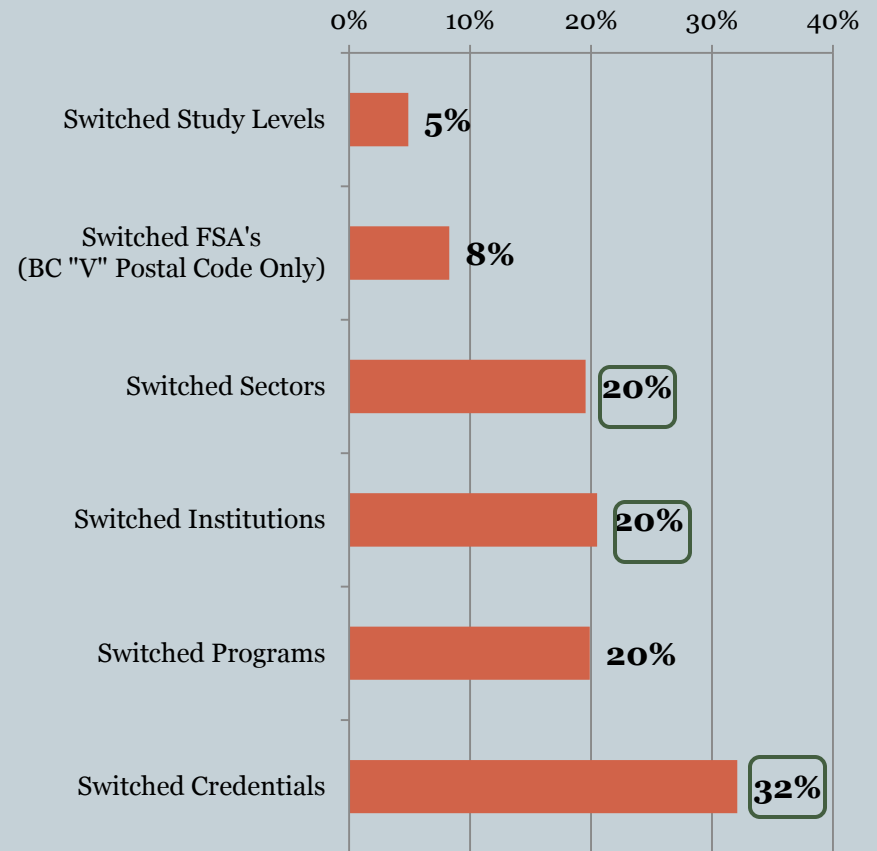


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Mobility of All Registrants in BC



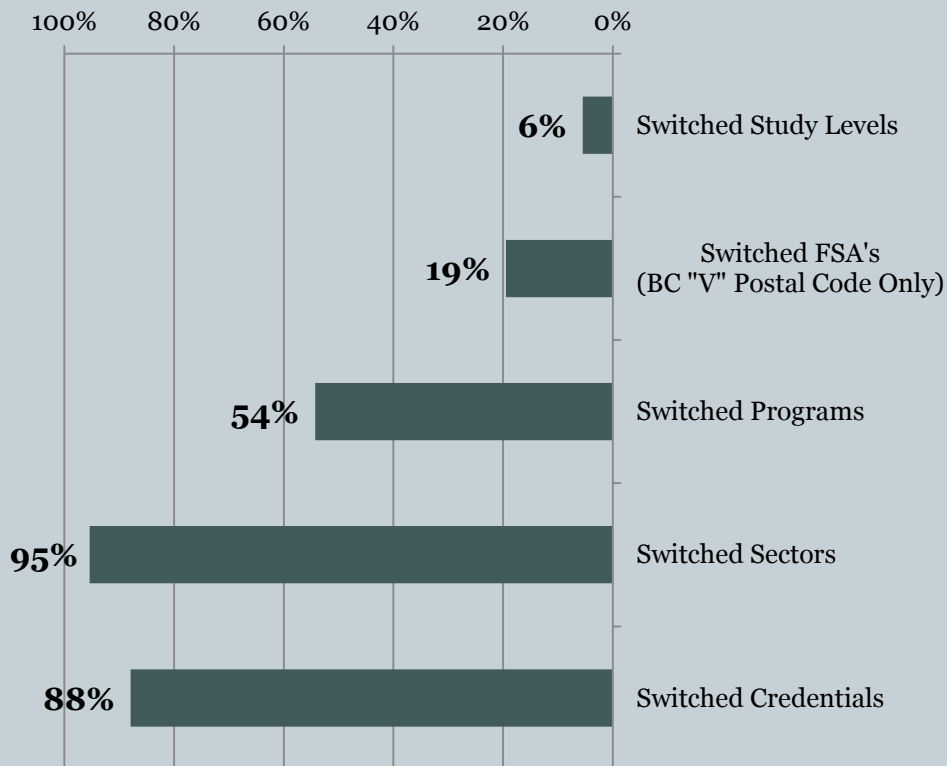
Mobility of KWAN Registrants



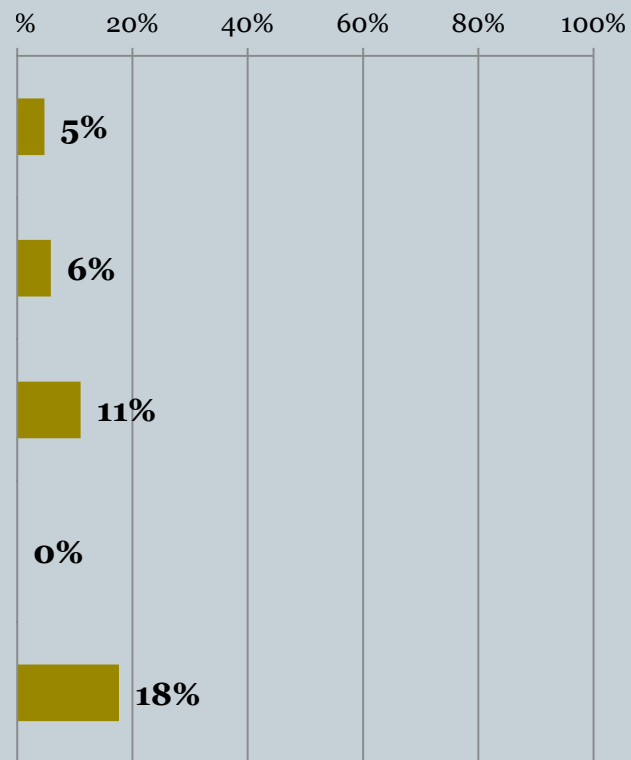
Comparing Kwantlen Student Mobility Indicators: PSI Movers vs. Non-Movers (06/07 to 07/08)

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Mobility of Kwantlen Leavers Who Continued Elsewhere (N=2,161)



Mobility of Kwantlen Persisters (N=8,383)

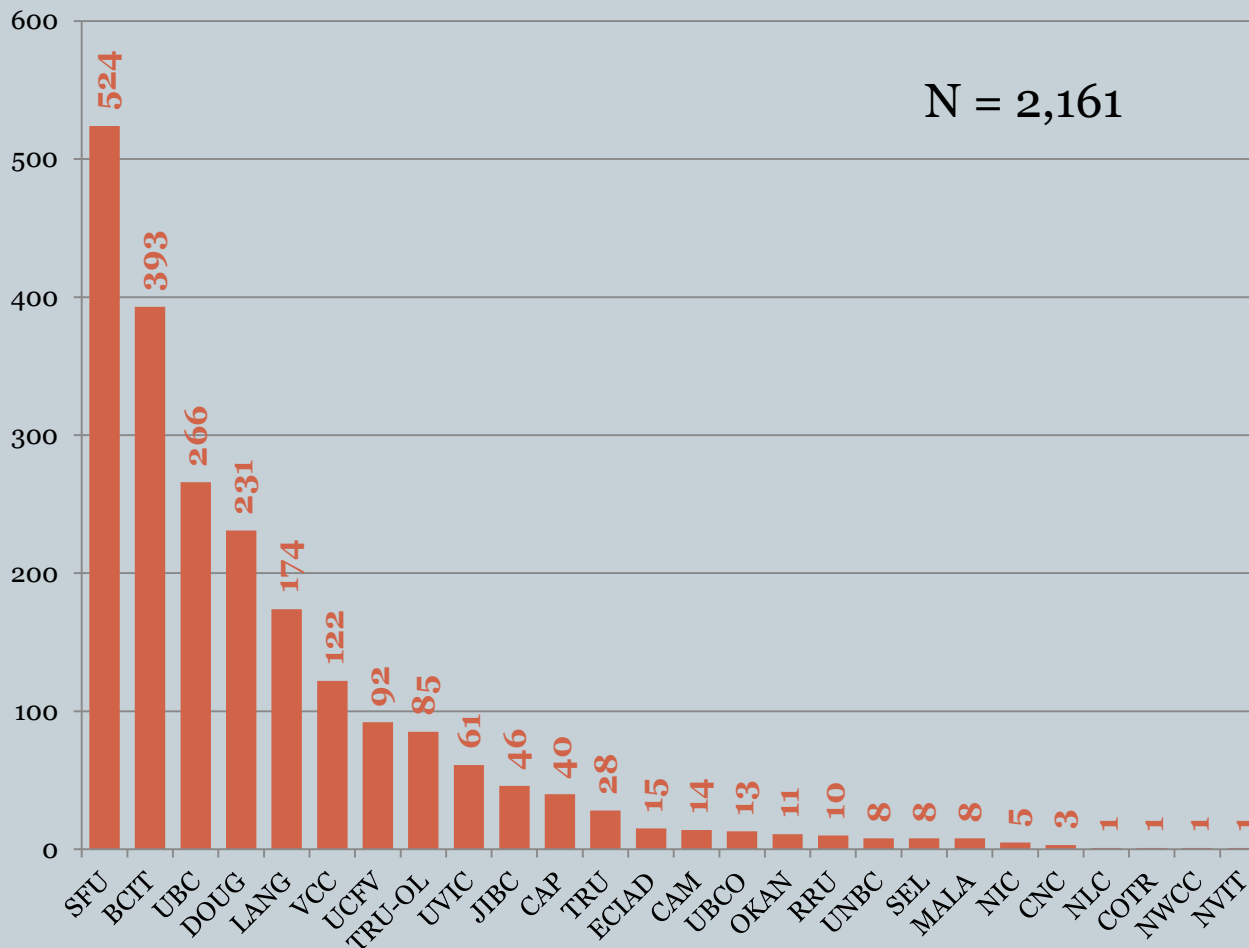


Higher mobility rates of students who switch from Kwantlen to other institutions suggests that students leave Kwantlen to change various aspects of their program.

Among 2006/07 Kwantlen Registrants Who Left in 2007/08, Where Did They Go?



40

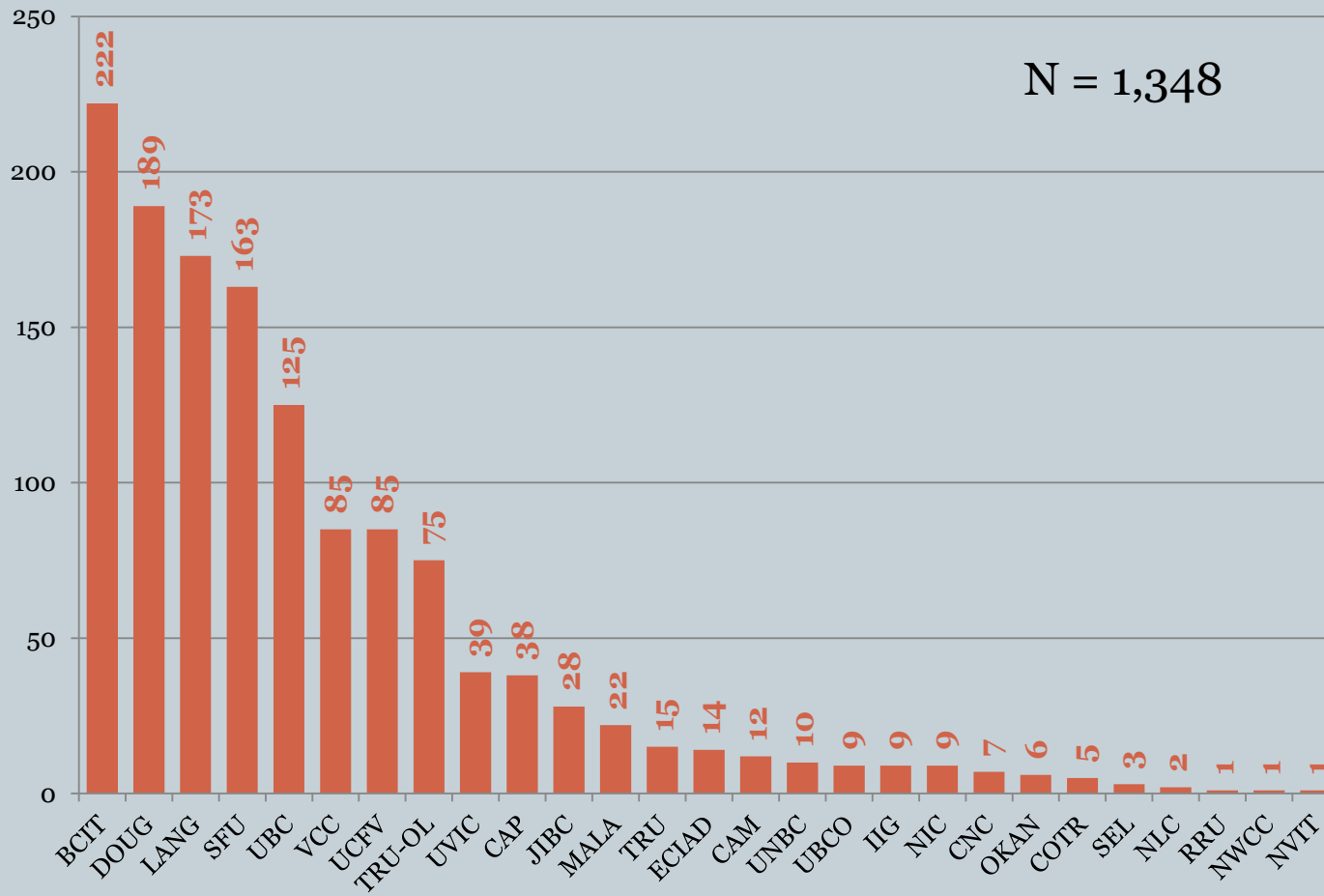


Institution	#	%
SFU	524	24%
BCIT	393	18%
UBC	266	12%
DOUG	231	11%
LANG	174	8%
VCC	122	6%
UCFV	92	4%
TRU-OL	85	4%
UVIC	61	3%
JIBC	46	2%
CAP	40	2%
TRU	28	< 1%
ECIAD	15	< 1%
CAM	14	< 1%
UBCO	13	< 1%
OKAN	11	< 1%
RRU	10	< 1%
UNBC	8	< 1%
SEL	8	< 1%
MALA	8	< 1%
NIC	5	< 1%
CNC	3	< 1%
NLC	1	< 1%
COTR	1	< 1%
NWCC	1	< 1%
INVIT	1	< 1%
Total Switchers	2,161	100%

Note: Among 524 who left Kwantlen for SFU,
278 (53%) continued in an Arts and Sciences program at SFU.

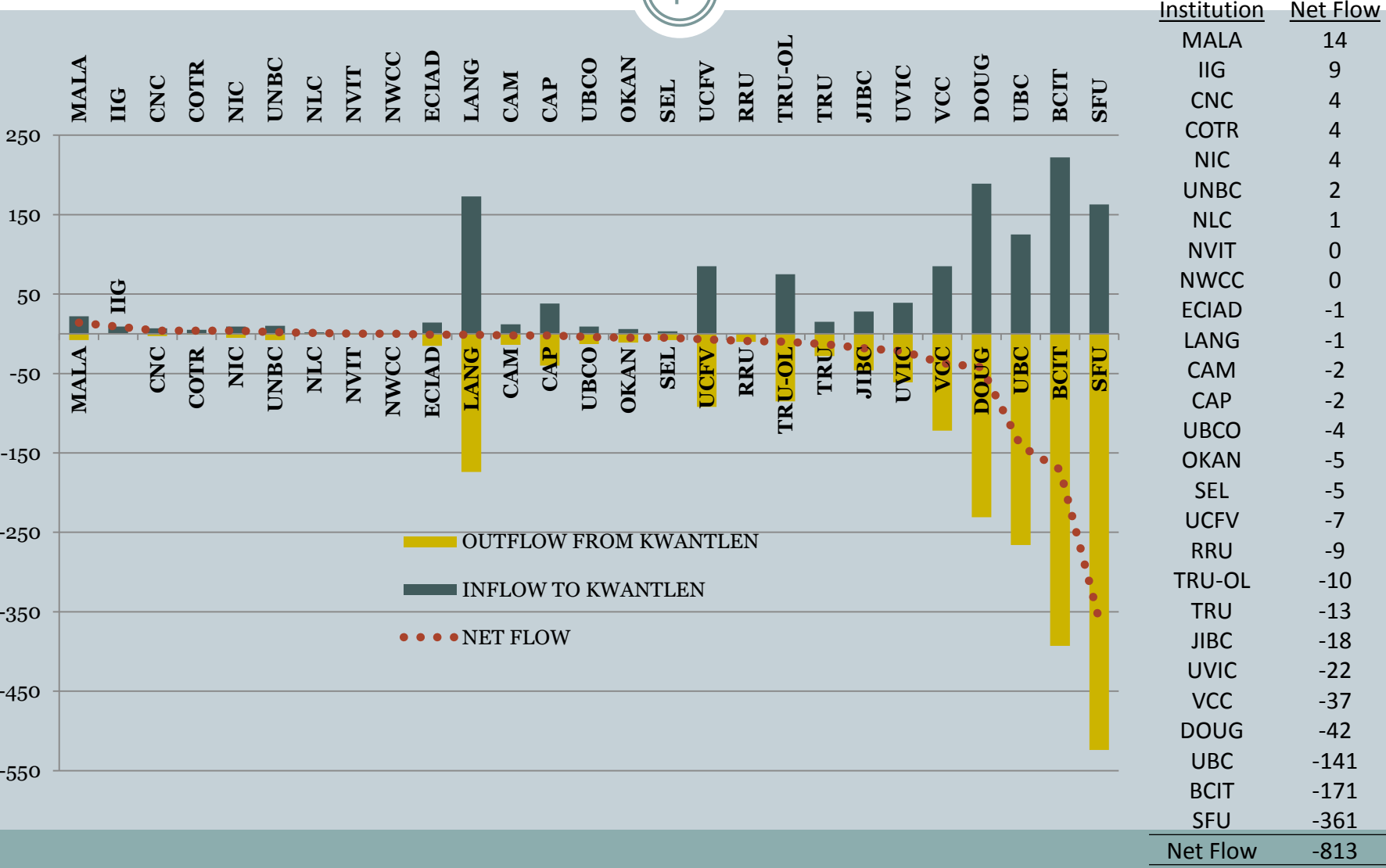
Among Those Who Switched Into Kwantlen in 2007/08 from Other Institutions in 2006/07, Where Did They Come From?

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Institution	#	%
BCIT	222	16%
DOUG	189	14%
LANG	173	13%
SFU	163	12%
UBC	125	9%
VCC	85	6%
UCFV	85	6%
TRU-OL	75	6%
UVIC	39	3%
CAP	38	3%
JIBC	28	2%
MALA	22	2%
TRU	15	1%
ECIAD	14	1%
CAM	12	1%
UNBC	10	1%
UBCO	9	1%
IIG	9	1%
NIC	9	1%
CNC	7	1%
OKAN	6	0%
COTR	5	< 1%
SEL	3	< 1%
NLC	2	< 1%
RRU	1	< 1%
NWCC	1	< 1%
NVIT	1	< 1%
Total Switchers	1,348	100%

Net Flows In/Out of Kwantlen(2007/08)



Program Mobility Matrix for 2006/07 Kwantlen Registrants With No Credential Who Left for Other PSI's in 2007/08

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Kwantlen Program Area (2006/07)	Other PSI Program Area (2007/08)								Program Mobility Rate
	ARTS AND SCIENCES	BUSINESS AND MANAGEMENT	DEVELOPMENTAL EDUCATION	ENGINEERING, ELEC., ELECTRONICS	LEGAL AND SOCIAL	VISUAL, PERF. AND FINE ARTS	Other	Grand Total	
ARTS AND SCIENCES	580	65	29	18	27	21	325	1,065	46%
BUSINESS AND MANAGEMENT	108	98	10	4	11	4	95	330	70%
DEVELOPMENTAL EDUCATION	25	13	48	2	1	3	56	148	68%
ENGINEERING, ELEC., ELECTRONICS	10	2	1	34		1	25	73	53%
LEGAL AND SOCIAL	46	7	6		45	1	28	133	66%
VISUAL, PERF. AND FINE ARTS	9	2	1	1		20	13	46	57%
Other	12	3	5		4	1	72	97	26%
Grand Total	790	190	100	59	88	51	614	1,892	53%
Program Stability Rate:								47%	

Program Stability: 897 (or 47%) stayed in same program at new PSI.

Program Mobility: 995 (or 53%) switched to a different program at new PSI.

Program Mobility Matrix for 2006/07 Kwantlen Registrants With No Credential Who Stayed at Kwantlen in 2007/08

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Kwantlen Program Area (2006/07)	Kwantlen Program Area (2007/08)							Grand Total	Program Mobility Rate
	ARTS AND SCIENCES	BUSINESS AND MANAGEMENT	LEGAL AND SOCIAL	DEVELOPMENTAL EDUCATION	VISUAL, PERF. AND FINE ARTS	NURSING	Other		
ARTS AND SCIENCES	2,614	143	46	12	18	62	56	2,951	11%
BUSINESS AND MANAGEMENT	49	2,123	16	7	7	1	10	2,213	4%
LEGAL AND SOCIAL	28	13	608		1		4	654	7%
DEVELOPMENTAL EDUCATION	174	88	15	327	6	3	39	652	50%
VISUAL, PERF. AND FINE ARTS	12	8			344		1	365	6%
NURSING	4			1		320		325	2%
Other	20	10		2	1		812	845	4%
Grand Total	2,901	2,385	685	349	377	386	922	8,005	11%
Program Stability Rate:								89%	

Students who stayed at Kwantlen are more stable in their program movement.
Only 11% of Kwantlen persisters switched programs, compared to 53% of Kwantlen leavers.

Simultaneous Enrollment in Multiple Institutions

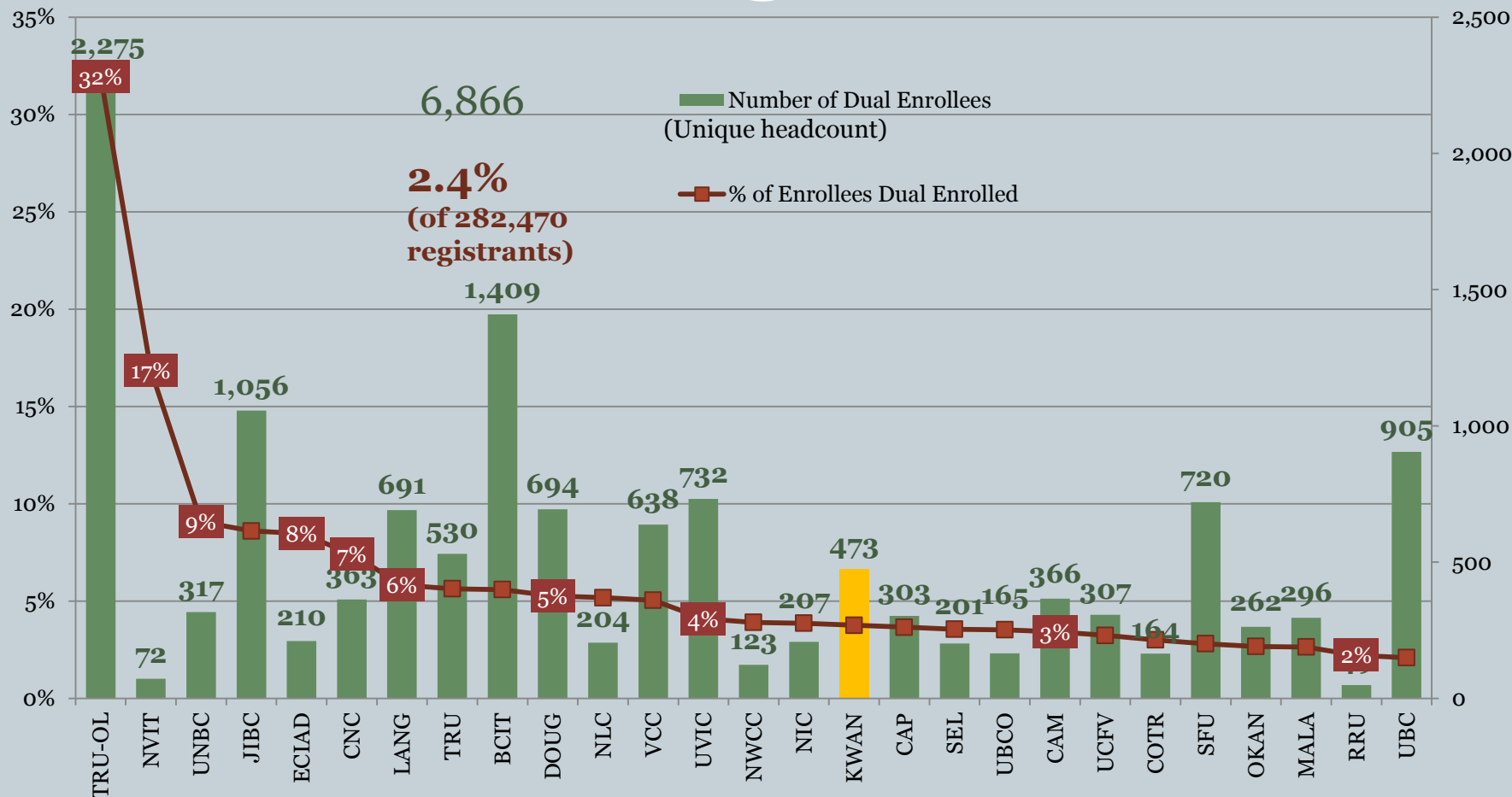
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DUAL ENROLLEES

Among All Fall 2007 Registrants, What Proportion Enrolled in Two Institutions Simultaneously?



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Note: Dual enrollments are counted at each institution. The sum of all dual enrollments across all institutions (13,732) is double the unique headcount of dual enrollees (6,866).

Popular Dual Enrollment Combinations in BC

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Institutions:

TRU-OL/TRU	(389)
BCIT/JIBC	(334)
TRU-OL/UVIC	(304)
CAMOSUN/UVIC	(210)
SFU/UBC	(180)
TRU-OL/UBC	(169)
CNC/UNBC	(150)
BCIT/TRU-OL	(131)
BCIT/DOUGLAS	(130)
BCIT/VCC	(129)

Programs:

Among all dual enrollees:

43% enrolled in the same broad program area at both institutions.

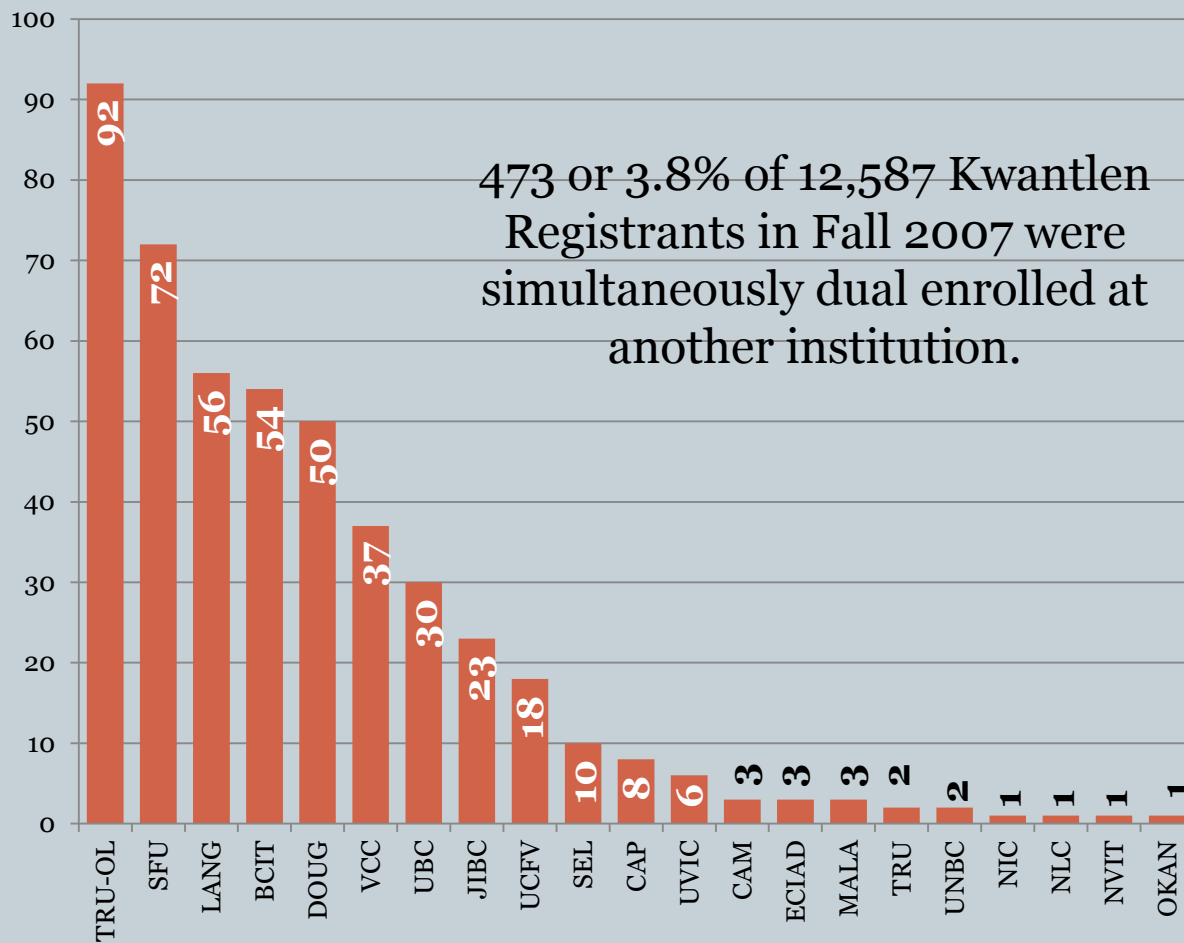
31% paired with “unknown” programs;

23% paired with “Arts and Sciences”.

Kwantlen Dual Enrollees, Fall 2007



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473 or 3.8% of 12,587 Kwantlen Registrants in Fall 2007 were simultaneously dual enrolled at another institution.

Institution Where Dual Enrolled	# Dual With Kwantlen	% With Dual Reg	% Distrib of Duals
TRU-OL	92	0.7%	19%
SFU	72	0.6%	15%
LANG	56	0.4%	12%
BCIT	54	0.4%	11%
DOUG	50	0.4%	11%
VCC	37	0.3%	8%
UBC	30	0.2%	6%
JIBC	23	0.2%	5%
UCFV	18	0.1%	4%
SEL	10	0.1%	2%
CAP	8	0.1%	2%
UVIC	6	0.0%	1%
CAM	3	0.0%	1%
ECIAD	3	0.0%	1%
MALA	3	0.0%	1%
TRU	2	0.0%	0%
UNBC	2	0.0%	0%
NIC	1	0.0%	0%
NLC	1	0.0%	0%
NVIT	1	0.0%	0%
OKAN	1	0.0%	0%
Grand Total Dual Enrollees	473	3.8%	100%

Popular Dual Program Combinations of 72 Dual Enrolles at Kwantlen and SFU

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- Kwantlen Arts and Sciences paired with SFU Arts and Sciences (39)
- Kwantlen Business and Management paired with SFU Arts and Sciences (10)
- Other Program Combinations (23)

Conclusion

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Looking for More Information?

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- **STP Web Site:**
 - http://www.aved.gov.bc.ca/student_transitions/
 - STP Fast Facts
 - STP Highlights Newsletters
 - STP Research Reports
 - Mobility of Transfer Students Research (also on BCCAT web site)
- **STP SharePoint Site:**
 - Accessible by Institutional Researchers and Registrar's
 - STP Pivot Tables
 - STP Presentations

What's Next?

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- Movement Among Post-Secondary Institutions & Programs – Pivot Tables and Newsletter
- Dual Enrollment in Post-Secondary Institutions in Fall 2008 - Pivot Table
- Transitions Beyond the BC Public Post-Secondary System (privates and non-BC)
- Non-graduate transitions to post-secondary education