



Supplemental Learning (SL)



The Big Picture: SL Across Five Years 2016-17 to 2020-21

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Preface

Supplemental Learning, or SL, began at TRU in 2004-05, so technically, this report encompasses a five-year block that starts from its 12th year. There seems to be no such thing as a “normal” year—and certainly a span which encompasses a pandemic and the only experience with remote SL, following a year when procuring session space was hugely challenging, would hardly qualify. And yet the notion of taking the broader view to see what we might discover has been satisfying.

During these five years some incredible leaders have come and gone, each making their own mark upon SL. I’ve been privileged to work with 18 to 22 leaders each year, with between 8 and 13 of the team being new to the role each year. A core of returning leaders have provided mentoring for the newer leaders, while also supporting the program in other creative ways.

Elizabeth Templeman, SL Coordinator

Participation & Scope

Supplemental Learning (SL) supported 29 single semester courses and 2 full year courses in the years between Fall 2016 and Winter 2021. Of these, 19 semester courses and both full year courses provided SL support on a regular basis, while 10 semester courses operated as pilots. Of the 18,301 students enrolled in the courses, 5318 (29%) participated in at least one SL session. Of those 29% who participated, 1194 students (7%) were frequent participants (attending 6+ hours per course, each term).

SL participation rate varied by School or Faculty, with the Faculty of Law consistently having the highest rate (84%) and the School of Business, the lowest (19%) (Figure 1).

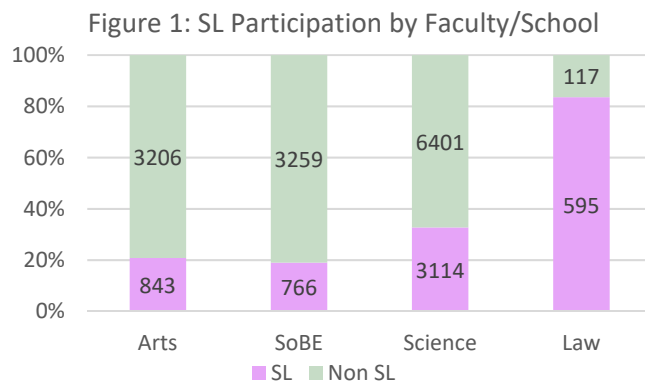
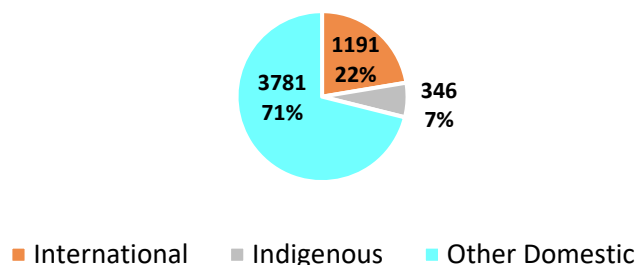


Figure 2: SL Participation by Student Subgroup



SL participants include subgroups of International and Indigenous (self-declared) students (Figure 2).



The Pilots

Pilots in SL are often initiated by faculty or departmental request, or sometimes or sometimes at the request of students (often in survey comments). For a pilot to be deemed successful and to continue depends upon the results conveying a reasonable expectation of positive impact, the course faculty remaining open to SL support being extended to students, and leaders who have experience with the course continue to be available. It may take a few attempts, and a sustained effort, to create the momentum for SL support to take hold within a program or area. For many courses supported in this overview, it took a couple semesters to draw the base of participants to determine the applicability of SL for the course. On the other hand, sadly, for some courses (including two included in this study), student uptake has been high, with evidence suggesting benefits, but other complications have resulted in a withdrawal of SL support.

Over the five years, SL support was piloted for ten courses, including GEOG 1010, 2020, 2050, and 2700; HLSC 2550; and STAT 2022; with a modified version of support provided for a cluster of RESP courses.

Impact

In the single semester courses with ongoing SL, both the percentage of students succeeding (C or higher) and the average GPA were higher for students who participated in SL as compared to those who did not. These differences were amplified for the group of students participating more frequently (6+hours) (Figure 3).

Figure 3: Differences - Single Semester Courses with Ongoing SL

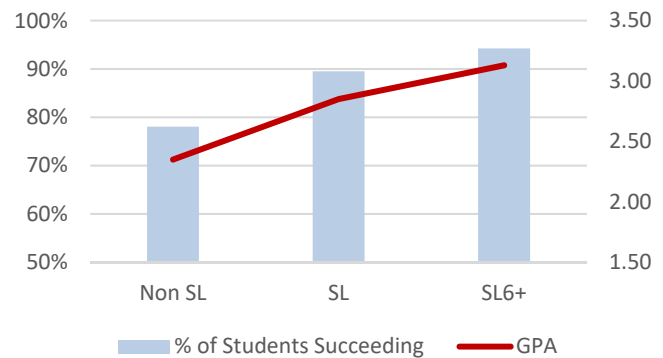
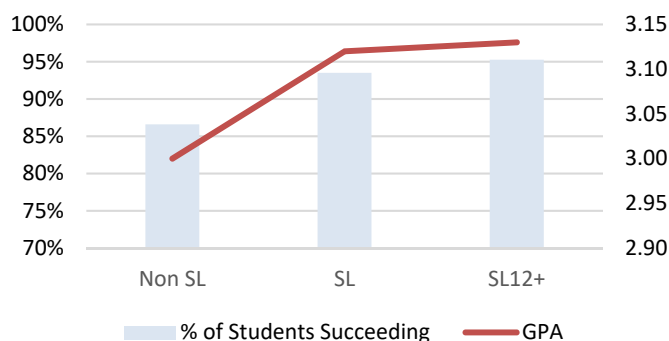


Figure 4: Differences - Full Year Courses (Law)



For the full year courses, the patterns were similar; however, for these courses, success was defined differently (B or higher) and the participation rate was inverse of the semester courses (Figure 4).

Satisfaction

Based on data from end of semester surveys, participants were quite satisfied with SL. The participants rated the SL leaders very highly (4.3 out of 5.0) in terms of preparation and capability. This average rating was validated by student comments, many of which expressed gratitude for the leaders and the program.





SL Summary Report
Fall 2016 - Winter 2021
Part II: Participation

All Courses	<i>Total</i>	<i>Percent</i>
Total number of courses	31	
Total graded course enrollment	18301	
SL participants	5318	29%
SL participants (6+ hours/semester)	1194	7%
SL student contact hours	25713.5	
Average number of session hours attended per participant by course	4.8	
Average participant satisfaction with SL sessions (max = 5)	4.3	

Semester Courses Ongoing	<i>Total</i>	<i>Percent</i>
Total number of courses	19	
Total graded course enrollment	16792	
SL participants	4459	27%
SL participants (6+ hours)	892	5%
SL student contact hours	18391.0	
Average number of session hours attended per participant by course	4.1	

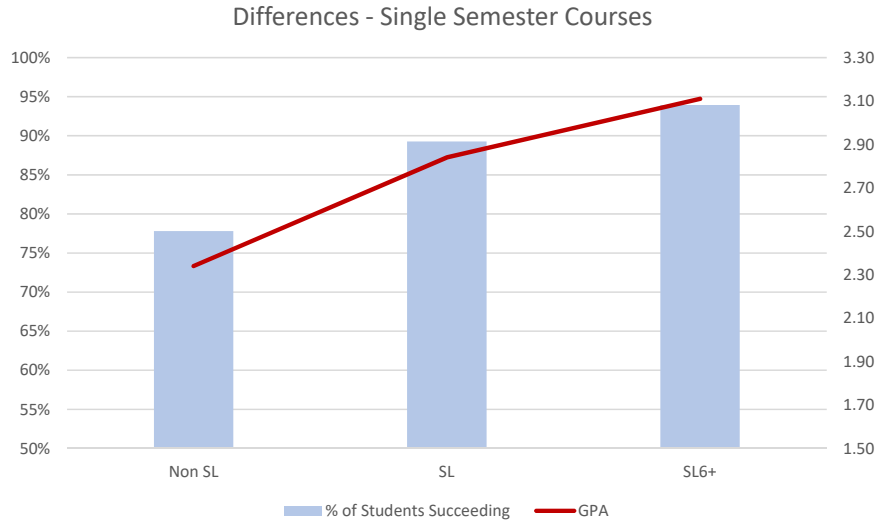
Semester Course Pilots	<i>Total</i>	<i>Percent</i>
Total number of courses	10	
Total graded course enrollment	797	
SL participants	264	33%
SL participants (6+ hours)	75	9%
SL student contact hours	1299.0	
Average number of session hours attended per participant by course	4.9	

Full Year Course (Law)	<i>Total</i>	<i>Percent</i>
Total number of courses	2	
Total graded course enrollment	712	
SL participants	595	84%
SL participants (12+ hours)	227	32%
SL student contact hours	6023.5	
Average number of session hours attended per participant by course	10.1	



SL Summary Report Fall 2016 - Winter 2021

Part III A: Outcomes for Ongoing Semester Courses



Single Semester Courses Ongoing

Group	SL Participants		SL Participants (6+ hrs)		Non SL Participants		All	
# of students	4459		892		12333		16792	
Achievement	#	%	#	%	#	%	#	%
Success (A, B,C)	3981	89%	838	94%	9596	78%	13577	81%
Non Success (D, F, DNC)	478	11%	54	6%	2737	22%	3215	19%
Mean GPA	2.84		3.11		2.34		2.47	

Differences

All	SL	Non SL	Difference	
% of students succeeding	89%	78%	11%	
Mean GPA	2.84	2.34	0.5	*
<i>Students who participated regularly in SL (6+ hours)</i>				
% of students succeeding	94%	78%	16%	
Mean GPA	3.11	2.34	0.77	*

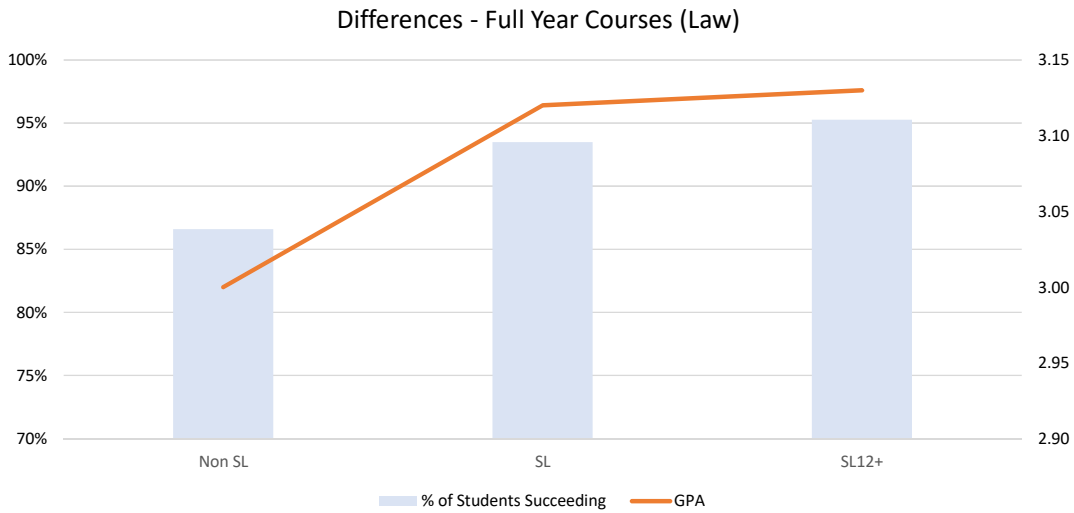
*The differences between the GPA means are statistically significant (p < .01)



SL Summary Report

Fall 2016 - Winter 2021

Part III B: Outcomes Full Year Courses



Full Year Course (Law)									
Group	SL Participants		SL Participants (12+ hrs)		Non SL Participants		All		
# of students	384		169		97		481		
Achievement	#	%	#	%	#	%	#	%	
Success (A, B)	359	93%	161	95%	84	87%	443	92%	
Non Success (C, D, F, DNC)	25	7%	8	5%	13	13%	38	8%	
Mean GPA	3.12		3.13		3.00		3.09		

Differences			
All	SL	Non SL	Difference
% of students succeeding	93%	87%	7%
Mean GPA	3.12	3.00	0.12
<i>Students who participated regularly in SL (12+ hours/year)</i>			
% of students succeeding	95%	87%	9%
Mean GPA	3.13	3.00	0.13

Note: In 2020, due to the pandemic, 231 students were given credit for the courses but no grade so they are not included in this section



SL Summary Report Fall 2016 - Winter 2021

Part IV: Summary by Course for All Participants

Comparison of Performance by Course for Students Attending SL

Faculty	Course	SL Attendance	% SL Attendance	SL Contact Hours	Mean GPA			Success Rate		
					SL	Non SL	Difference	SL	Non SL	Difference
Arts	GEOG 1000	142	39%	742.5	2.83	2.06	0.77	89%	67%	23%
	PHIL 1110	242	14%	831	3.06	2.32	0.74	94%	78%	16%
	PHIL 2220	57	63%	289	3.11	2.50	0.61	86%	77%	10%
	PSYC 1110	107	9%	423	3.31	2.53	0.78	94%	82%	13%
	PSYC 2100	141	50%	946.5	2.74	2.54	0.20	91%	86%	4%
	PSYC 2130/2230	53	43%	409	2.40	1.95	0.45	81%	75%	6%
SoBE	ACCT 1000/2210	681	20%	2412.5	2.54	2.15	0.39	83%	73%	10%
	ECON 1950	76	14%	228	2.53	2.01	0.52	83%	68%	15%
Science	BIOL 1110	352	25%	1349	2.80	2.17	0.63	89%	74%	15%
	BIOL 1210	266	21%	888	3.11	2.52	0.59	94%	83%	12%
	BIOL 1592	318	34%	1291.5	3.03	2.94	0.09	93%	88%	5%
	BIOL 1692	177	21%	958.5	3.24	3.11	0.13	94%	93%	1%
	BIOL 2280	94	37%	427	2.78	2.36	0.42	87%	80%	8%
	CHEM 1500	629	42%	2586.5	2.53	1.72	0.81	84%	64%	20%
	CHEM 1510/1520	351	30%	1325.5	3.69	2.78	0.91	94%	88%	6%
	CHEM 2120	280	51%	1334	2.55	2.12	0.43	91%	77%	15%
	CHEM 2220	204	43%	943.5	2.78	2.22	0.56	89%	79%	11%
	PHYS 1100	171	47%	600	3.13	2.28	0.85	92%	75%	18%
	PHYS 1200	118	47%	406	3.47	2.98	0.49	96%	93%	3%
Total		4459	27%	18391.0	2.85	2.35	0.50	89%	78%	11%

Comparison of Performance by Course for Students Attending 6+ hours/Semester of SL

Faculty	Course	SL 6+ Attendance	% SL 6+ Attendance	SL6+ Contact Hours	Mean GPA			Success Rate		
					SL 6+	Non SL	Difference	SL 6+	Non SL	Difference
Arts	GEOG 1000	44	12%	469.5	3.31	2.06	1.25	100%	67%	33%
	PHIL 1110	41	2%	351	3.26	2.32	0.94	95%	78%	17%
	PHIL 2220	20	22%	183.5	3.53	2.50	1.03	90%	77%	14%
	PSYC 1110	23	2%	248	3.42	2.53	0.89	96%	82%	14%
	PSYC 2100	51	18%	739.5	2.73	2.54	0.19	94%	86%	8%
	PSYC 2130/2230	22	18%	342	3.00	1.95	1.05	100%	75%	25%
SoBE	ACCT 1000/2210	107	3%	97.5	2.81	2.03	0.78	87%	71%	16%
	ECON 1950	8	1%	61	3.21	2.01	1.20	100%	68%	32%
Science	BIOL 1110	51	4%	561	3.22	2.17	1.05	96%	74%	22%
	BIOL 1210	22	2%	280	3.36	2.52	0.84	100%	83%	17%
	BIOL 1592	70	7%	734	3.20	2.94	0.26	94%	88%	6%
	BIOL 1692	42	5%	665.5	3.44	3.11	0.33	98%	93%	4%
	BIOL 2280	19	7%	229	2.67	2.36	0.31	90%	80%	10%
	CHEM 1500	117	8%	1196.5	2.94	1.72	1.22	92%	64%	27%
	CHEM 1510/1520	61	5%	173	3.54	2.50	1.04	100%	88%	12%
	CHEM 2120	98	18%	843	2.71	2.12	0.59	91%	77%	14%
	CHEM 2220	56	12%	537.5	3.15	2.22	0.93	93%	79%	14%
	PHYS 1100	24	7%	192.5	3.51	2.28	1.23	100%	75%	25%
	PHYS 1200	16	6%	129	3.83	2.98	0.85	100%	93%	8%
Total		892	5%	8033.0	3.13	2.35	0.78	94%	78%	14%



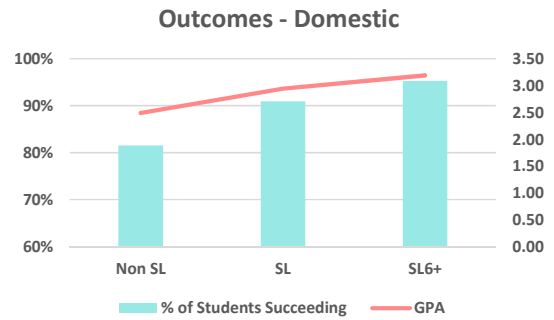
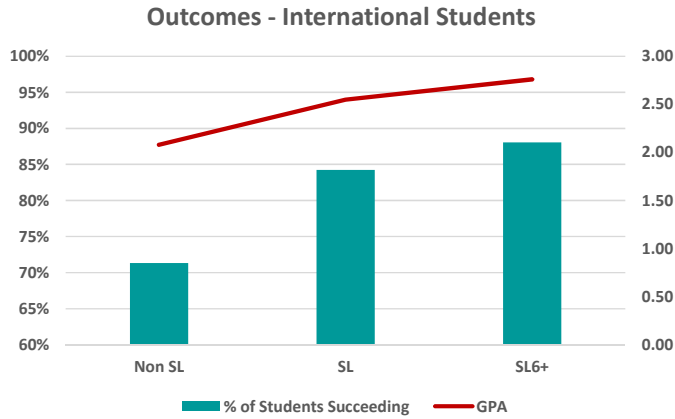
SL Summary Report

Fall 2016 - Winter 2021

Single Semester Courses Ongoing

Part V: Student Subgroups - International

Participation	Total	Percent
International Students		
Total graded course enrollment	5635	
SL participants	1124	20%
SL participants (6+ hours)	168	3%



Outcomes									
International Students									
Group	SL Participants		SL Participants (6+ hrs)		Non SL Participants		All		
# of students	1124		168		4511		5635		
Achievement	#	%	#	%	#	%	#	%	
Success (A, B,C)	947	84%	148	88%	3219	71%	4166	74%	
Non Success (D, F, DNC)	177	16%	20	12%	1292	29%	1469	26%	
Mean GPA	2.55		2.76		2.08		2.17		

Differences				
International Students				
All	SL	Non SL	Difference	
% of students succeeding	84%	71%	13%	
Mean GPA	2.55	2.08	0.47 *	
<i>Students who participated regularly in SL (6+ hours)</i>				
% of students succeeding	88%	71%	17%	
Mean GPA	2.76	2.08	0.68 *	

*The differences between the GPA means are statistically significant (p < .01)

Comparisons	% Succeeding			Mean GPA			SL Participation Rate
	SL	SL+6	Non SL	SL	SL+6	Non SL	
International students	84%	88%	71%	2.55	2.76	2.08	20%
Domestic students	91%	95%	82%	2.94	3.19	2.49	30%



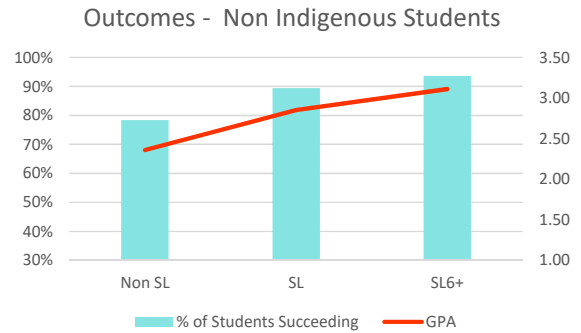
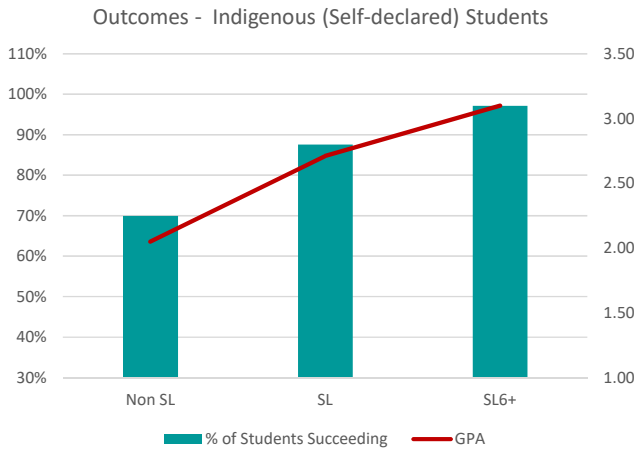
SL Summary Report

Fall 2016 - Winter 2021

Single Semester Courses Ongoing

Part V: Student Subgroups - Indigenous (Self-declared)

Participation	Total	Percent
Indigenous Students		
Total graded course enrollment	1137	
SL participants	298	26%
SL participants (6+ hours)	70	6%



Outcomes									
Indigenous Students									
Group	SL Participants		SL Participants (6+ hrs)		Non SL Participants		All		
# of students	298		70		839		1137		
Achievement	#	%	#	%	#	%	#	%	
Success (A, B,C)	261	88%	68	97%	587	70%	848	75%	
Non Success (D, F, DNC)	37	12%	2	3%	252	30%	289	25%	
Mean GPA	2.71		3.10		2.05		2.22		

Differences				
Indigenous Students				
All students	SL	Non SL	Difference	
% of students succeeding	88%	70%	18%	
Mean GPA	2.71	2.05	0.66 *	
<i>Students who participated regularly in SL (6+ hours)</i>				
% of students succeeding	97%	70%	27%	
Mean GPA	3.10	2.05	1.05 *	

*The differences between the GPA means are statistically significant ($p < .01$)

Comparisons	% Succeeding			Mean GPA			Participation
	SL	SL+6	Non SL	SL	SL+6	Non SL	Rate
Indigenous (Self-declared) students	88%	97%	70%	2.71	3.10	2.05	26%
Non Indigenous students	89%	94%	78%	2.85	3.11	2.36	27%