



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).

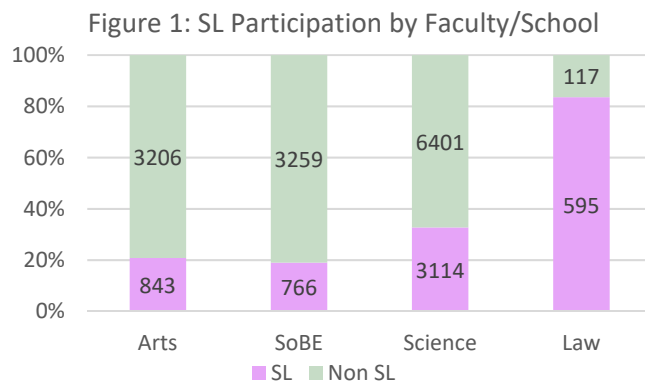
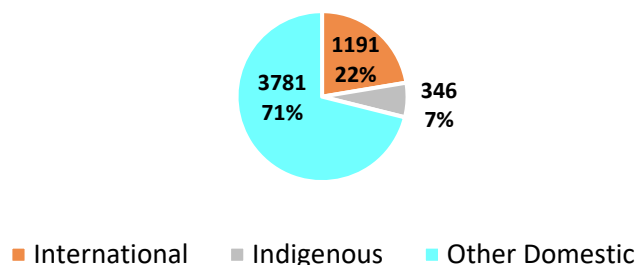


Figure 2: SL Participation by Student Subgroup



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

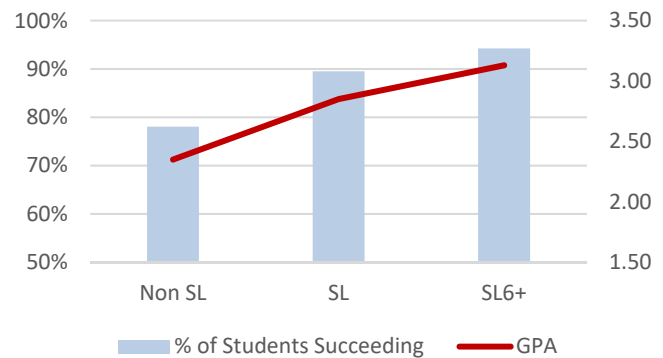
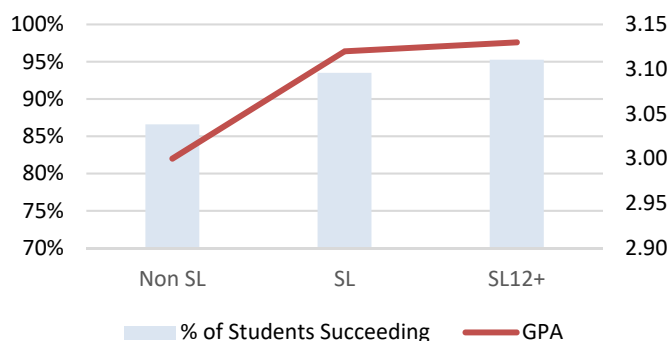


Figure 4: Differences - Full Year Courses (Law)



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 | |

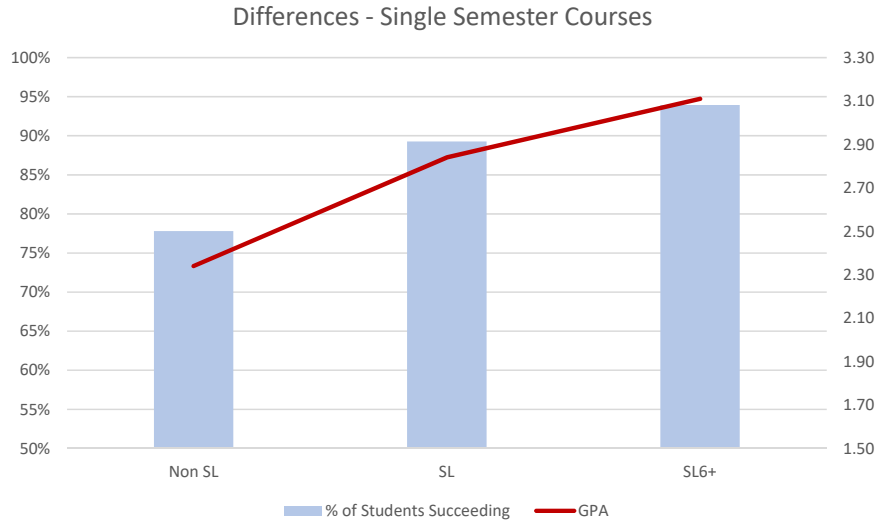
| Semester Course Pilots | <i>Total</i> | <i>Percent</i> |
|--|---------------|----------------|
| Total number of courses | 10 | |
| Total graded course enrollment | 797 | |
| SL participants | 264 | 33% |
| SL participants (6+ hours) | 75 | 9% |
| SL student contact hours | 1299.0 | |
| Average number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

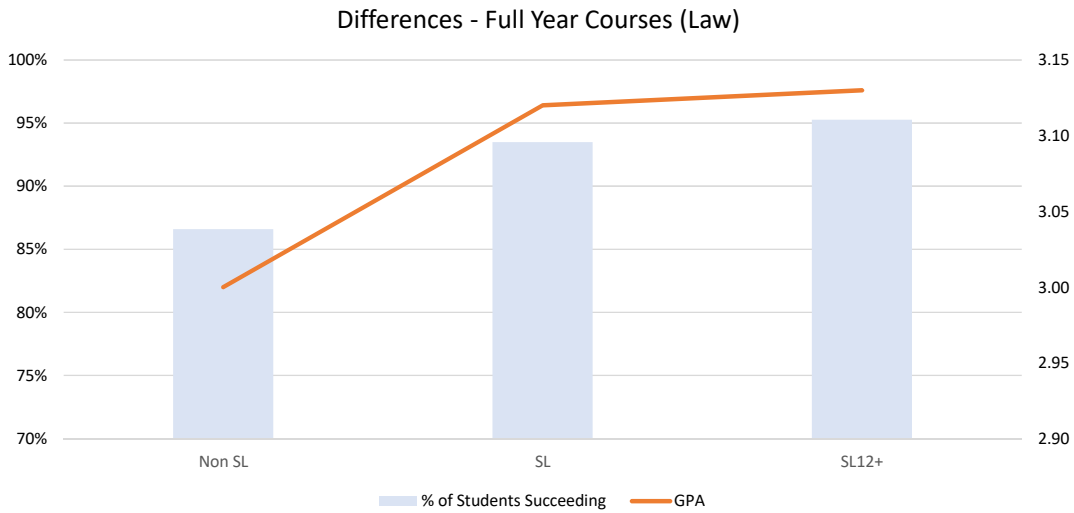
| All | SL | Non SL | Difference | |
|---|------|--------|-------------|---|
| % of students succeeding | 89% | 78% | 11% | |
| Mean GPA | 2.84 | 2.34 | 0.5 | * |
| <i>Students who participated regularly in SL (6+ hours)</i> | | | | |
| % of students succeeding | 94% | 78% | 16% | |
| Mean GPA | 3.11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



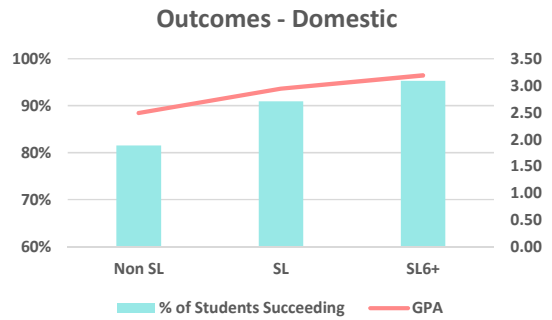
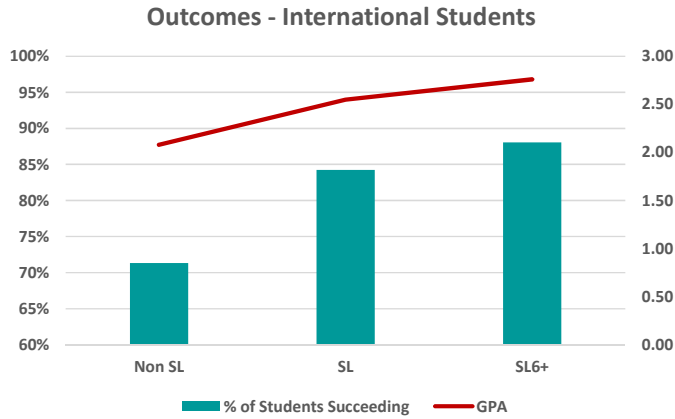
SL Summary Report

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% |



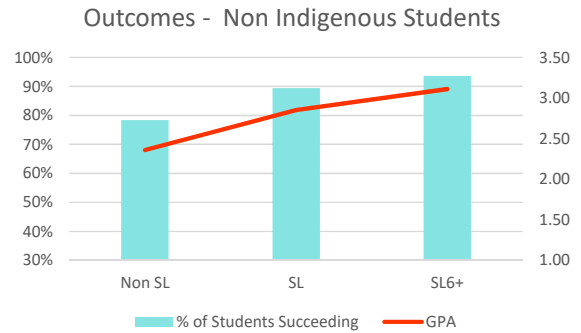
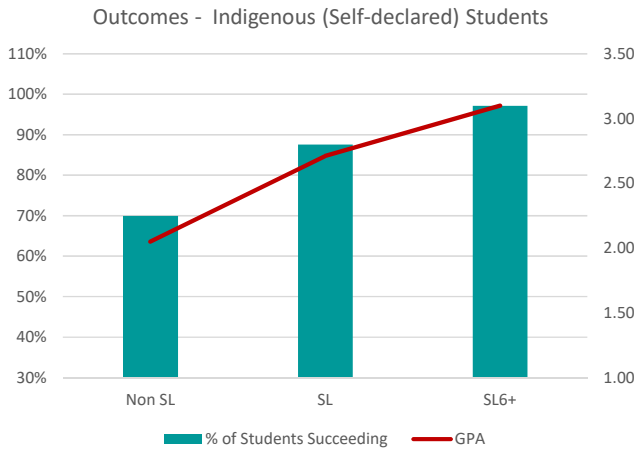
SL Summary Report

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% |