## General Education Committee 2016-2017 Annual Report

- I. Objectives
  - A. Goal: Continue the long-range plan for core assessment, including assessment, data, collection and analysis, and review and feedback.
  - B. Objectives
    - 1. Promote to faculty and students the idea that this is our culture
    - 2. Enhance teaching of core competencies
    - Disseminate college-wide survey to determine overall opinion of student improvement (especially from PT and NHS areas where students come from Gen Ed to programs)
    - 4. Continue calibration—internal and external
    - 5. Increase transparency of committee decision making
    - 6. Explore tracks/pathways within Gen Ed core
- II. Actions and Outcomes
  - A. Actions:
    - 1. A professional development session was held during Fall convocation and attended by 7 faculty members.
    - A professional development session was held during Fall adjunct and dual credit convocation and attended by 54 adjunct and dual credit faculty members.
    - 3. SPAN 2312 was rejected for inclusion in the core curriculum.
    - 4. Change from CS1 written communication to CS3 visual communication was approved for MATH 1314/1414, 1316, 1324, 1332, 1342/1442, 2413.
    - 5. The committee established procedure for leadership change based on a two-year cycle as co-chair and chair.
    - 6. An ex-officio representative from faculty senate was added to the committee membership.
    - 7. Assignment change for EDUC 1300 was approved. No SLOs were changed.
    - 8. SPAN 2311 was rejected for inclusion in the core curriculum.
    - 9. MUSI 1310 was accepted for inclusion in the core curriculum to be submitted to THECB in 2016.
    - 10.Selected questions on the Community College Survey of Student Engagement (CCSSE) were mapped to the core competencies.
    - 11.COSC 1301 was accepted for inclusion in the core curriculum to be submitted to THECB in 2017.
    - 12. Feedback on Gen Ed from the Spring 2016 College-Wide Assessment Survey indicated that there seems to be a disconnect between "general

education" and "core curriculum" and that faculty may not be using rubrics effectively.

- 13. The course proposal process and timeline were revised to improve clarity and efficiency.
- B. Outcomes
  - 1. Assessments
    - a. Canvas data was collected in June for Fall 2016 and Spring 2017 core courses. Data report was delivered to the committee in November.
    - b. Data were analyzed by semester, number of student semester credit hours (SCH), and by specific core competencies. Based on IERP recommendation, the category "did not submit" was excluded from the data analysis.
    - c. An error occurred in the processing of data from BIOL 2401 and 2402 which skewed the results for CT2-3 and EQS 2.
  - 2. Results
    - a. Competency-specific results for Fall 2016 and Spring 2017, along with combined Fall/Spring results, are included in section III of this document.
    - Analysis of comparative results (Fall Spring, <20SCH 20+SCH, and Spring 2016 – Spring 2017) are included.
      - i. There were no significant differences between Fall 2016 and Spring 2017. The data were combined for further analysis.
      - Results for students with 20+SCH were significantly higher than results for students with <20SCH. Further analysis was considered solely on the basis of students with 20+SCH.
      - iii. Results for Spring 2017 (20+SCH) were significantly lower than results for Spring 2016 (20+SCH) and Spring 2015 (20+SCH).

## III. Core Curriculum Assessment Information Fall 2016-Spring 2017

This document contains the data analysis for the assessment results for the 2016-2017 academic year.

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Tables 15 – 21 are based solely on students with 20+ SCH.

# Part 1: Results for Fall 2016

Table 1: Results for Communication

Fall 2016	Objective:	CS1: Written Communication				CS2: Oral Communication		CS3: Visual Communication	
	Criteria:	Organization	Development Support	Language Skills	Format	Develop Support	Express Ideas	Develop Support	Express Ideas
	Totals								
Head	-Counts	CS1-1	CS1-2	CS1-3	CS1-4	CS2-1	CS2-2	CS3-1	CS3-2
<20SCH									
	Exceeds	623	536	599	543	89	78	23	23
	Meets	1371	1353	1428	1259	233	234	178	175
	Not Met	375	521	394	609	68	78	71	72
	Totals	2369	2410	2421	2411	390	390	272	270
20+SCH									
	Exceeds	1488	1262	1311	1240	344	302	79	76

	Exceeds	1488	1262	1311	1240	344	302	79	76
	Meets	2557	2580	2757	2481	570	567	404	405
	Not Met	456	728	506	855	60	105	60	62
	Totals	4501	4570	4574	4576	974	974	543	543
Grand Total		6870	6980	6995	6987	1364	1364	815	813

% Withi	in Category	CS1-1	CS1-2	CS1-3	CS1-4	CS2-1	CS2-2	CS3-1	CS3-2
<20SCH									
	Exceeds	26.30%	22.24%	24.74%	22.52%	22.82%	20.00%	8.46%	8.52%
	Meets	57.87%	56.14%	58.98%	52.22%	59.74%	60.00%	65.44%	64.81%
	Not Met	15.83%	21.62%	16.27%	25.26%	17.44%	20.00%	26.10%	26.67%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

20+SCH									
	Exceeds	33.06%	27.61%	28.66%	27.10%	35.32%	31.01%	14.55%	14.00%
	Meets	56.81%	56.46%	60.28%	54.22%	58.52%	58.21%	74.40%	74.59%
	Not Met	10.13%	15.93%	11.06%	18.68%	6.16%	10.78%	11.05%	11.42%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% of (	Category	CS1-1	CS1-2	CS1-3	CS1-4	CS2-1	CS2-2	CS3-1	CS3-2
<20SCH									
	Exceeds	9.07%	7.68%	8.56%	7.77%	6.52%	5.72%	2.82%	2.83%
	Meets	19.96%	19.38%	20.41%	18.02%	17.08%	17.16%	21.84%	21.53%
	Not Met	5.46%	7.46%	5.63%	8.72%	4.99%	5.72%	8.71%	8.86%
	Totals	34.48%	34.53%	34.61%	34.51%	28.59%	28.59%	33.37%	33.21%
20+SCH									
	Exceeds	21.66%	18.08%	18.74%	17.75%	25.22%	22.14%	9.69%	9.35%
	Meets	37.22%	36.96%	39.41%	35.51%	41.79%	41.57%	49.57%	49.82%
	Not Met	6.64%	10.43%	7.23%	12.24%	4.40%	7.70%	7.36%	7.63%
	Totals	65.52%	65.47%	65.39%	65.49%	71.41%	71.41%	66.63%	66.79%

100.00%

100.00%

100.00%

100.00%

100.00%

100.00%

100.00%

**Grand Total** 

100.00%

### Table 2: Results for Critical Thinking

Fall 2016	Objective:	CT1: Generate/Communicate				CT 2-3: Analyze/Evaluate			
	Criteria:	Position	Explanation	Evidence	Conclusion	Evidence	Analysis	Evaluation	Synthesis
	Totals								
Head	l-Counts	CT1-1	CT1-2	CT1-3	CT1-4	CT2-3-1	CT2-3-2	CT2-3-3	CT2-3-4
<20SCH									
	Exceeds	878	830	734	788	79	69	66	63
	Meets	1981	1944	1873	1931	234	221	226	241
	Not Met	502	584	751	591	352	282	251	305
	Totals	3361	3358	3358	3310	665	572	543	609
20+SCH									
	Exceeds	1750	1741	1619	1747	288	280	272	250
	Meets	3218	3134	2946	3137	979	912	936	972
	Not Met	619	705	1015	682	1416	1136	1014	1190
	Totals	5587	5580	5580	5566	2683	2328	2222	2412
<b>Grand Total</b> 8948 8938 8938 8876 3348		3348	2900	2765	3021				

% Withi	n Category	CT1-1	CT1-2	CT1-3	CT1-4	CT2-1	CT2-2	CT2-3	CT2-4
<20SCH									
	Exceeds	26.12%	24.72%	21.86%	23.81%	11.88%	12.06%	12.15%	10.34%
	Meets	58.94%	57.89%	55.78%	58.34%	35.19%	38.64%	41.62%	39.57%
	Not Met	14.94%	17.39%	22.36%	17.85%	52.93%	49.30%	46.22%	50.08%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

20+SCH									
	Exceeds	31.32%	31.20%	29.01%	31.39%	10.73%	12.03%	12.24%	10.36%
	Meets	57.60%	56.16%	52.80%	56.36%	36.49%	39.18%	42.12%	40.30%
	Not Met	11.08%	12.63%	18.19%	12.25%	52.78%	48.80%	45.63%	49.34%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% of (	Category	CT1-1	CT1-2	CT1-3	CT1-4	CT2-1	CT2-2	CT2-3	CT2-4
<20SCH									
	Exceeds	9.81%	9.29%	8.21%	8.88%	2.36%	2.38%	2.39%	2.09%
	Meets	22.14%	21.75%	20.96%	21.76%	6.99%	7.62%	8.17%	7.98%
	Not Met	5.61%	6.53%	8.40%	6.66%	10.51%	9.72%	9.08%	10.10%
	Totals	37.56%	37.57%	37.57%	37.29%	19.86%	19.72%	19.64%	20.16%
20+SCH									
	Exceeds	19.56%	19.48%	18.11%	19.68%	8.60%	9.66%	9.84%	8.28%
	Meets	35.96%	35.06%	32.96%	35.34%	29.24%	31.45%	33.85%	32.17%
	Not Met	6.92%	7.89%	11.36%	7.68%	42.29%	39.17%	36.67%	39.39%
	Totals	62.44%	62.43%	62.43%	62.71%	80.14%	80.28%	80.36%	79.84%
Gran	Grand Total         100.00%		100.00%	100.00%					

\*An error occurred in the processing of data from BIOL 2401 and 2402 which skewed the results for CT2-3 and EQS 2.

## Table 3: Results for Empirical and Quantitative Skills

Fall 2016	Objective:	EQS 1: Numerical Data			EQS 2: Observable Facts		
	Criteria:	Manipulate	Analyze	Conclusion	Manipulate	Analyse	Conclusion
	Totals						
Head-	Counts	EQS1-1	EQS1-2	EQS1-3	EQS2-1	EQS2-2	EQS2-3
<20SCH							
	Exceeds	70	62	64	222	234	247
	Meets		114	122	591	589	595
Not Met		75	81	79	408	384	335
	Totals	257	257	265	1221	1207	1177

20+SCH							
	Exceeds	182	172	167	504	597	564
	Meets	311	310	337	1393	1352	1384
	Not Met	148	160	143	1364	1254	1111
	Totals	641	642	647	3261	3203	3059
Grand	Grand Total		899	912	4482	4410	4236

% Within	Category	EQ1-1	EQ1-2	EQ1-3	EQ2-1	EQ2-2	EQ2-3
<20SCH							
	Exceeds	27.24%	24.12%	24.15%	18.18%	19.39%	20.99%
	Meets	43.58%	44.36%	46.04%	48.40%	48.80%	50.55%
	Not Met	29.18%	31.52%	29.81%	33.42%	31.81%	28.46%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

20+SCH							
	Exceeds	28.39%	26.79%	25.81%	15.46%	18.64%	18.44%
	Meets	48.52%	48.29%	52.09%	42.72%	42.21%	45.24%
	Not Met	23.09%	24.92%	22.10%	41.83%	39.15%	36.32%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% of C	ategory	EQ1-1	EQ1-2	EQ1-3	EQ2-1	EQ2-2	EQ2-3
<20SCH							
	Exceeds	7.80%	6.90%	7.02%	4.95%	5.31%	5.83%
	Meets	12.47%	12.68%	13.38%	13.19%	13.36%	14.05%
	Not Met	8.35%	9.01%	8.66%	9.10%	8.71%	7.91%
	Totals	28.62%	28.59%	29.06%	27.24%	27.37%	27.79%

20+SCH							
	Exceeds	20.27%	19.13%	18.31%	11.24%	13.54%	13.31%
	Meets	34.63%	34.48%	36.95%	31.08%	30.66%	32.67%
	Not Met	16.48%	17.80%	15.68%	30.43%	28.44%	26.23%
	Totals	71.38%	71.41%	70.94%	72.76%	72.63%	72.21%
Grand	d Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

### Table 4: Results for Personal Responsibility

Fall 2016	Objective:	PR 1: Choices and Consequences		
	Criteria:	Identification	Connection	Response
	Totals			
Head-	Counts	PR1-1	PR1-2	PR1-3
<20SCH				
	Exceeds	638	662	629
	Meets	1586	1547	1564
	Not Met	306	319	334
	Totals	2530	2528	2527

20+SCH				
	Exceeds	1379	1366	1344
	Meets	2572	2583	2599
	Not Met	472	476	485
	Totals	4423	4425	4428
Grand	l Total	6953	6953	6955

% Within	Category	PR1-1	PR1-2	PR1-3
<20SCH				
	Exceeds	25.22%	26.19%	24.89%
	Meets	62.69%	61.19%	61.89%
	Not Met	12.09%	12.62%	13.22%
	Totals	100.00%	100.00%	100.00%

20+SCH				
	Exceeds	31.18%	30.87%	30.35%
	Meets	58.15%	58.37%	58.69%
	Not Met	10.67%	10.76%	10.95%
	Totals	100.00%	100.00%	100.00%

% of C	ategory	PR1-1	PR1-2	PR1-3
<20SCH				
	Exceeds	9.18%	9.52%	9.04%
	Meets	22.81%	22.25%	22.49%
	Not Met	4.40%	4.59%	4.80%
	Totals	36.39%	36.36%	36.33%

20+SCH				
	Exceeds	19.83%	19.65%	19.32%
	Meets	36.99%	37.15%	37.37%
	Not Met	6.79%	6.85%	6.97%
	Totals	63.61%	63.64%	63.67%
Grand	l Total	100.00%	100.00%	100.00%

## Table 5: Results for Social Responsibility

Describe effects SR1-2 SR1-2 107 352 61 520	Comprehend SR2-1 386 370 115 871	Reflect SR2-2 343 408 118 869	Communicate Commun	Awareness SR3-1 233 537 122	Impact SR3-2 229 517 144	Action SR3-3 215 494 183
107 352 61	386 370 115	343 408 118	302 457	233 537	229 517	215 494
107 352 61	386 370 115	343 408 118	302 457	233 537	229 517	215 494
352 61	370 115	408 118	457	537	517	494
352 61	370 115	408 118	457	537	517	494
61	115	118	-			-
-			109	122	144	183
520	871	860				100
		809	868	892	890	892
354	682	666	673	468	460	463
586	769	795	791	839	839	792
87	251	240	230	121	126	168
1027	1702	1701	1694	1428	1425	1423
1547	2573	2570	2562	2320	2315	2315
	586 87 1027	586         769           87         251           1027         1702	586         769         795           87         251         240           1027         1702         1701	586         769         795         791           87         251         240         230           1027         1702         1701         1694	586         769         795         791         839           87         251         240         230         121           1027         1702         1701         1694         1428	586         769         795         791         839         839           87         251         240         230         121         126           1027         1702         1701         1694         1428         1425

% Within	Category	SR1-1	SR1-2	SR2-1	SR2-2	SR2-3	SR3-1	SR3-2	SR3-3
<20SCH									
	Exceeds	23.87%	20.58%	44.32%	39.47%	34.79%	26.12%	25.73%	24.10%
	Meets	67.67%	67.69%	42.48%	46.95%	52.65%	60.20%	58.09%	55.38%
	Not Met	8.46%	11.73%	13.20%	13.58%	12.56%	13.68%	16.18%	20.52%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

20+SCH									
	Exceeds	38.24%	34.47%	40.07%	39.15%	39.73%	32.77%	32.28%	32.54%
	Meets	54.89%	57.06%	45.18%	46.74%	46.69%	58.75%	58.88%	55.66%
	Not Met	6.87%	8.47%	14.75%	14.11%	13.58%	8.47%	8.84%	11.81%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% of Category		SR1-1	SR1-2	SR2-1	SR2-2	SR2-3	SR3-1	SR3-2	SR3-3
<20SCH									
	Exceeds	8.12%	6.92%	15.00%	13.35%	11.79%	10.04%	9.89%	9.29%
	Meets	23.00%	22.75%	14.38%	15.88%	17.84%	23.15%	22.33%	21.34%
	Not Met	2.88%	3.94%	4.47%	4.59%	4.25%	5.26%	6.22%	7.90%
	Totals	33.99%	33.61%	33.85%	33.81%	33.88%	38.45%	38.44%	38.53%

20+SCH									
	Exceeds	25.24%	22.88%	26.51%	25.91%	26.27%	20.17%	19.87%	20.00%
	Meets	36.23%	37.88%	29.89%	30.93%	30.87%	36.16%	36.24%	34.21%
	Not Met	4.54%	5.62%	9.76%	9.34%	8.98%	5.22%	5.44%	7.26%
	Totals	66.01%	66.39%	66.15%	66.19%	66.12%	61.55%	61.56%	61.47%
Grand Total		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

#### Table 6: Results for Teamwork

Fall 2016	Objective:	TW 1-2: Teamw	vork	
	Criteria:	Team Interaction	Individual	Purpose/Goal
	Totals			
Head-	Head-Counts		TW1-2-2	TW1-2-3
<20SCH				
	Exceeds	369	349	338
	Meets	1061	1078	1082
	Not Met	199	207	205
	Totals	1629	1634	1625

20+SCH				
	Exceeds	878	862	850
	Meets	1866	1878	1886
	Not Met		206	207
	Totals	2942	2946	2943
Granc	l Total	4571	4580	4568

% Within	Category	TW-1	TW-2	TW-3
<20SCH				
	Exceeds	22.65%	21.36%	20.80%
	Meets	65.13%	65.97%	66.58%
	Not Met	12.22%	12.67%	12.62%
	Totals	100.00%	100.00%	100.00%

	1			
20+SCH				
	Exceeds	29.84%	29.26%	28.88%
	Meets	63.43%	63.75%	64.08%
	Not Met	6.73%	6.99%	7.03%
	Totals	100.00%	100.00%	100.00%

% of C	ategory	TW-1	TW-2	TW-3
<20SCH				
	Exceeds	8.07%	7.62%	7.40%
	Meets	23.21%	23.54%	23.69%
	Not Met	4.35%	4.52%	4.49%
	Totals	35.64%	35.68%	35.57%

20+SCH				
	Exceeds	ceeds 19.21%		18.61%
	Meets	40.82%	41.00%	41.29%
	Not Met		4.50%	4.53%
	Totals	64.36%	64.32%	64.43%
Grand Total		100.00%	100.00%	100.00%

# Part 2: Results for Spring 2017

#### Table 7: Results for Communication

Spring 2017	Objective:	C	51: Written Com	munication			Oral		Visual nication
2017	Objective.					commu		commu	Incation
			Development	Language		Develop	Express	Develop	Express
	Criteria:	Organization	Support	Skills	Format	Support	Ideas	Support	Ideas
	Totals								
Head-	Counts	CS1-1	CS1-2	CS1-3	CS1-4	CS2-1	CS2-2	CS3-1	CS3-2
<20SCH									
	Exceeds	777	670	809	648	115	109	60	77
	Meets	1608	1676	1613	1611	176	132	223	192
	Not Met	492	574	479	631	50	55	66	76
	Totals	2877	2920	2901	2890	341	296	349	345
20+SCH									
	Exceeds	1743	1566	1658	1473	409	356	197	198
	Meets	2968	3020	3085	2990	479	412	658	652
	Not Met	595	755	595	875	53	103	148	152
	Totals	5306	5341	5338	5338	941	871	1003	1002
Grand	l Total	8183	8261	8239	8228	1282	1167	1352	1347
% Within	Category	CS1-1	CS1-2	CS1-3	CS1-4	CS2-1	CS3-1	CS3-2	CS2-4
<20SCH									
	Exceeds	27.01%	22.95%	27.89%	22.42%	33.72%	36.82%	17.19%	22.32%
	Meets	55.89%	57.40%	55.60%	55.74%	51.61%	44.59%	63.90%	55.65%
	Not Met	17.10%	19.66%	16.51%	21.83%	14.66%	18.58%	18.91%	22.03%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

20+SCH									
	Exceeds	32.85%	29.32%	31.06%	27.59%	43.46%	40.87%	19.64%	19.76%
	Meets	55.94%	56.54%	57.79%	56.01%	50.90%	47.30%	65.60%	65.07%
	Not Met	11.21%	14.14%	11.15%	16.39%	5.63%	11.83%	14.76%	15.17%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% of C	ategory	CS1-1	CS1-2	CS1-3	CS1-4	CS2-1	CS3-1	CS3-2	CS2-4
<20SCH									
	Exceeds	9.50%	8.11%	9.82%	7.88%	8.97%	9.34%	4.44%	5.72%
	Meets	19.65%	20.29%	19.58%	19.58%	13.73%	11.31%	16.49%	14.25%
	Not Met	6.01%	6.95%	5.81%	7.67%	3.90%	4.71%	4.88%	5.64%
	Totals	35.16%	35.35%	35.21%	35.12%	26.60%	25.36%	25.81%	25.61%

20+SCH									
	Exceeds	21.30%	18.96%	20.12%	17.90%	31.90%	30.51%	14.57%	14.70%
	Meets	36.27%	36.56%	37.44%	36.34%	37.36%	35.30%	48.67%	48.40%
	Not Met	7.27%	9.14%	7.22%	10.63%	4.13%	8.83%	10.95%	11.28%
	Totals	64.84%	64.65%	64.79%	64.88%	73.40%	74.64%	74.19%	74.39%
Gran	d Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

### Table 8: Results for Critical Thinking

Objective:	CT1: Generate/Communicate				CT 2-3: Analyze/Evaluate			
Criteria:	Position	Explanation	Evidence	Conclusion	Evidence	Analysis	Evaluation	Synthesis
Totals								
-Counts	CT1-1	CT1-2	CT1-3	CT1-4	CT2-3-1	CT2-3-2	CT2-3-3	CT2-3-4
Exceeds	790	771	665	738	45	41	39	35
Meets	1683	1613	1605	1637	231	217	222	235
Not Met	503	556	693	552	351	280	235	309
Totals	2976	2940	2963	2927	627	538	496	579
Exceeds	1596	1580	1495	1521	163	145	130	137
Meets	2813	2761	2637	2829	1065	1014	1059	1054
Not Met	637	701	903	687	1286	1051	959	1128
Totals	5046	5042	5035	5037	2514	2210	2148	2319
d Total	8022	7982	7998	7964	3141	2748	2644	2898
n Category	CT1-1	CT1-2	CT1-3	CT1-4	CT2-3-1	CT2-3-2	CT2-3-3	CT2-3-4
Exceeds	26.55%	26.22%	22.44%	25.21%	7.18%	7.62%	7.86%	6.04%
Meets	56.55%	54.86%	54.17%	55.93%	36.84%	40.33%	44.76%	40.59%
Not Met	16.90%	18.91%	23.39%	18.86%	55.98%	52.04%	47.38%	53.37%
Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Exceeds	31.63%	31.34%	29.69%	30.20%	6.48%	6.56%	6.05%	5.91%
	Criteria: Totals -Counts Exceeds Meets Not Met Totals Exceeds Meets Not Met Totals d Totals d Totals n Category Exceeds Meets Not Met Totals	Objective:Generate/CommunicateCriteria:PositionTotalsCountsCT1-1Exceeds790Meets1683Not Met503Totals2976Exceeds1596Meets2813Not Met637Totals5046d Total8022n CategoryCT1-1Exceeds26.55%Meets56.55%Not Met16.90%Totals100.00%	Objective:         Generate/Communicate           Criteria:         Position         Explanation           Totals         -         -           -Counts         CT1-1         CT1-2           -Counts         CT1-1         CT1-2           Exceeds         790         771           Meets         1683         1613           Not Met         503         556           Totals         2976         2940           Exceeds         1596         1580           Meets         2813         2761           Not Met         637         701           Totals         5046         5042           od Total         8022         7982           m Category         CT1-1         CT1-2           Exceeds         26.55%         26.22%           Meets         56.55%         54.86%           Not Met         16.90%         18.91%           Totals         56.55%         54.86%	Objective:         Generate/Communicate         Explanation         Evidence           Criteria:         Position         Explanation         Evidence           Totals         CT1-1         CT1-2         CT1-3           -Counts         CT1-1         CT1-2         CT1-3           Exceeds         790         771         665           Meets         1683         1613         1605           Not Met         503         556         693           Totals         2976         2940         2963           Version         2976         2940         2963           Exceeds         1596         1580         1495           Meets         2813         2761         2637           Not Met         637         701         903           Totals         5046         5042         5035           of Total         8022         7982         7998           m Category         CT1-1         CT1-2         CT1-3           Exceeds         26.55%         26.22%         22.44%           Meets         56.55%         54.86%         54.17%           Not Met         16.90%         18.91%         23.39%	Objective:         Generate/Communicate         Image: Communicate         Image: Commun	Objective:         Generate/Communicate         Image: Conclusion         Analyze/Evaluate           Criteria:         Position         Explanation         Evidence         Conclusion         Evidence           Totals         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1           -Counts         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1           Exceeds         790         771         665         738         45           Meets         1683         1613         1605         1637         231           Not Met         503         556         693         552         351           Totals         2976         2940         2963         2927         627           Exceeds         1596         1580         1495         1521         163           Meets         2813         2761         2637         2829         1065           Not Met         637         701         903         687         1286           Totals         5046         5042         5035         5037         2514           d Total         8022         7982         7998         7964         3141           Excee	Objective:         Generate/Communicate         Image: Conclusion         Analyze/Evaluate           Criteria:         Position         Explanation         Evidence         Conclusion         Evidence         Analysis           Totals         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3-2           -Counts         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3-2           Exceeds         790         771         665         738         45         41           Meets         1683         1613         1605         1637         231         217           Not Met         503         556         693         552         351         280           Totals         2976         2940         2963         2927         627         538           Exceeds         1596         1580         1495         1521         163         145           Meets         2813         2761         2637         2829         1065         1014           Not Met         637         701         903         687         1286         1051           Totals         5046         5042         5035 <t< td=""><td>Objective:         Generate/Communicate         Explanation         Evidence         Analyze/Evaluate         Malyze/Evaluate           Criteria:         Position         Explanation         Evidence         Conclusion         Evidence         Analyze/Evaluate         Evaluation           Totals         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3         CT2-3-3           -Counts         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3-2         CT2-3-3           -Counts         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3-2         CT2-3-3           -Counts         Total         CT1-4         CT2-3-1         CT2-3-2         CT2-3-3           -Counts         1683         1613         1605         1637         231         217         222           Not Met         503         556         693         552         351         280         235           Totals         2976         2940         2963         2927         627         538         496           Exceeds         1596         1580         1495         1521         163         145         130           Mee</td></t<>	Objective:         Generate/Communicate         Explanation         Evidence         Analyze/Evaluate         Malyze/Evaluate           Criteria:         Position         Explanation         Evidence         Conclusion         Evidence         Analyze/Evaluate         Evaluation           Totals         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3         CT2-3-3           -Counts         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3-2         CT2-3-3           -Counts         CT1-1         CT1-2         CT1-3         CT1-4         CT2-3-1         CT2-3-2         CT2-3-3           -Counts         Total         CT1-4         CT2-3-1         CT2-3-2         CT2-3-3           -Counts         1683         1613         1605         1637         231         217         222           Not Met         503         556         693         552         351         280         235           Totals         2976         2940         2963         2927         627         538         496           Exceeds         1596         1580         1495         1521         163         145         130           Mee

Exceeds	31.63%	31.34%	29.69%	30.20%	6.48%	6.56%	6.05%	5.91%
Meets	55.75%	54.76%	52.37%	56.16%	42.36%	45.88%	49.30%	45.45%
Not Met	12.62%	13.90%	17.93%	13.64%	51.15%	47.56%	44.65%	48.64%
Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% of (	Category	CT1-1	CT1-2	CT1-3	CT1-4	CT2-3-1	CT2-3-2	CT2-3-3	CT2-3-4
<20SCH									
	Exceeds	9.85%	9.66%	8.31%	9.27%	1.43%	1.49%	1.48%	1.21%
	Meets	20.98%	20.21%	20.07%	20.55%	7.35%	7.90%	8.40%	8.11%
	Not Met	6.27%	6.97%	8.66%	6.93%	11.17%	10.19%	8.89%	10.66%
	Totals	37.10%	36.83%	37.05%	36.75%	19.96%	19.58%	18.76%	19.98%
20+SCH									
	Exceeds	19.90%	19.79%	18.69%	19.10%	5.19%	5.28%	4.92%	4.73%
	Meets	35.07%	34.59%	32.97%	35.52%	33.91%	36.90%	40.05%	36.37%
	Not Met	7.94%	8.78%	11.29%	8.63%	40.94%	38.25%	36.27%	38.92%
	Totals	62.90%	63.17%	62.95%	63.25%	80.04%	80.42%	81.24%	80.02%
Grar	nd Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

\*An error occurred in the processing of data from BIOL 2401 and 2402 which skewed the results for CT2-3 and EQS 2.

## Table 9: Results for Empirical and Quantitative Skills

Spring		EQS 1: Numerical			EQS 2: Observable		
2017	Objective:	Data			Facts		
	Criteria:	Manipulate	Analyze	Conclusion	Manipulate	Analyse	Conclusion
	Totals						
Head	-Counts	EQS1-1	EQS1-2	EQS1-3	EQS2-1	EQS2-2	EQS2-3
<20SCH							
	Exceeds	34	26	36	196	205	194
	Meets	125	131	116	645	646	655
	Not Met	98	101	122	442	410	368
	Totals	257	258	274	1283	1261	1217
20+SCH							
	Exceeds	85	80	118	465	468	453
	Meets	442	431	388	1467	1483	1476
	Not Met	189	202	215	1208	1159	1079
	Totals	716	713	721	3140	3110	3008
Gran	d Total	973	971	995	4423	4371	4225
		•	•	•	•		•

% Within	% Within Category		EQ1-2	EQ1-3	EQ2-1	EQ2-2	EQ2-3
<20SCH							
	Exceeds	13.23%	10.08%	13.14%	15.28%	16.26%	15.94%
	Meets	48.64%	50.78%	42.34%	50.27%	51.23%	53.82%
	Not Met	38.13%	39.15%	44.53%	34.45%	32.51%	30.24%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

20+SCH							
	Exceeds	11.87%	11.22%	16.37%	14.81%	15.05%	15.06%
	Meets	61.73%	60.45%	53.81%	46.72%	47.68%	49.07%
	Not Met	26.40%	28.33%	29.82%	38.47%	37.27%	35.87%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% of C	ategory	EQ1-1	EQ1-2	EQ1-3	EQ2-1	EQ2-2	EQ2-3
<20SCH							
	Exceeds	3.49%	2.68%	3.62%	4.43%	4.69%	4.59%
	Meets	12.85%	13.49%	11.66%	14.58%	14.78%	15.50%
	Not Met	10.07%	10.40%	12.26%	9.99%	9.38%	8.71%
	Totals	26.41%	26.57%	27.54%	29.01%	28.85%	28.80%

20+SCH							
	Exceeds	8.74%	8.24%	11.86%	10.51%	10.71%	10.72%
	Meets	45.43%	44.39%	38.99%	33.17%	33.93%	34.93%
	Not Met	19.42%	20.80%	21.61%	27.31%	26.52%	25.54%
	Totals	73.59%	73.43%	72.46%	70.99%	71.15%	71.20%
Grand	d Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

## Table 10: Results for Personal Responsibility

Spring 2017	Objective:	PR 1: Choices and Consequences		
	Criteria:	Identification	Connection	Response
	Totals			
Head-	Counts	PR1-1	PR1-2	PR1-3
<20SCH				
	Exceeds	554	555	539
	Meets	1301	1289	1293
	Not Met	308	323	327
	Totals	2163	2167	2159

20+SCH				
	Exceeds	1192	1184	1135
	Meets	2050	2053	2088
	Not Met	445	452	465
	Totals	3687	3689	3688
Grand	Grand Total		5856	5847

% Within	Category	PR1-1	PR1-2	PR1-3
<20SCH				
	Exceeds	25.61%	25.61%	24.97%
	Meets	60.15%	59.48%	59.89%
	Not Met	14.24%	14.91%	15.15%
	Totals	100.00%	100.00%	100.00%

20+SCH				
	Exceeds	32.33%	32.10%	30.78%
	Meets	55.60%	55.65%	56.62%
	Not Met	12.07%	12.25%	12.61%
	Totals	100.00%	100.00%	100.00%

% of Category		PR1-1	PR1-2	PR1-3
<20SCH				
	Exceeds	9.47%	9.48%	9.22%
	Meets	22.24%	22.01%	22.11%
	Not Met	5.26%	5.52%	5.59%
	Totals	36.97%	37.00%	36.92%

20+SCH				
	Exceeds	20.38%	20.22%	19.41%
	Meets	35.04%	35.06%	35.71%
	Not Met	7.61%	7.72%	7.95%
	Totals	63.03%	63.00%	63.08%
Grand Total		100.00%	100.00%	100.00%

### Table 11: Results for Social Responsibility

Spring 2017	Objective:	SR 1: Intercultural Competence		SR 2: Civic Responsibility			SR 3: Communities		
		Recognize	Describe						
	Criteria:	elements	effects	Comprehend	Reflect	Communicate	Awareness	Impact	Action
	Totals								
Head	-Counts	SR1-1	SR1-2	SR2-1	SR2-2	SR2-3	SR3-1	SR3-2	SR3-3
<20SCH									
	Exceeds	103	102	409	261	299	201	201	179
	Meets	289	291	269	430	389	481	468	440
	Not Met	56	61	115	103	100	155	173	220
	Totals	448	454	793	794	788	837	842	839
20+SCH									
	Exceeds	279	261	712	624	685	411	390	327
	Meets	566	571	606	705	648	816	813	786
	Not Met	70	76	254	239	229	121	141	228
	Totals	915	908	1572	1568	1562	1348	1344	1341
Gran	d Total	1363	1362	2365	2362	2350	2185	2186	2180
	n Category	SR1-1	SR1-2	SR2-1	SR2-2	SR2-3	SR3-1	SR3-2	SR3-3
<20SCH		/		/					
	Exceeds	22.99%	22.47%	51.58%	32.87%	37.94%	24.01%	23.87%	21.33%
	Meets	64.51%	64.10%	33.92%	54.16%	49.37%	57.47%	55.58%	52.44%
	Not Met	12.50%	13.44%	14.50%	12.97%	12.69%	18.52%	20.55%	26.22%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
20.001									
20+SCH		20.40%	20 7 40/	45.20%	20.00%	42.050/	20.40%	20.020/	24.200/
	Exceeds	30.49% 61.86%	28.74%	45.29%	39.80%	43.85%	30.49%	29.02%	24.38%
	Meets		62.89%	38.55% 16.16%	44.96%	41.49%	60.53%	60.49%	58.61% 17.00%
	Not Met Totals	7.65%	8.37% 100.00%	100.00%	15.24% 100.00%	14.66% 100.00%	8.98% 100.00%	10.49%	100.00%
						1			100.0070
	Category	SR1-1	SR1-2	SR2-1	SR2-2	SR2-3	SR3-1	SR3-2	SR3-3
<20SCH									
	Exceeds	7.56%	7.49%	17.29%	11.05%	12.72%	9.20%	9.19%	8.21%
	Meets	21.20%	21.37%	11.37%	18.20%	16.55%	22.01%	21.41%	20.18%
	Not Met	4.11%	4.48%	4.86%	4.36%	4.26%	7.09%	7.91%	10.09%
	Totals	32.87%	33.33%	33.53%	33.62%	33.53%	38.31%	38.52%	38.49%
20+SCH									
	Exceeds	20.47%	19.16%	30.11%	26.42%	29.15%	18.81%	17.84%	15.00%
	Meets	41.53%	41.92%	25.62%	29.85%	27.57%	37.35%	37.19%	36.06%
	Not Met	5.14%	5.58%	10.74%	10.12%	9.74%	5.54%	6.45%	10.46%
	Totals	67.13%	66.67%	66.47%	66.38%	66.47%	61.69%	61.48%	61.51%
Gran	d Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

#### Table 12: Results for Teamwork

Spring 2017	Objective:	TW 1-2: Teamwork				
		Team				
	Criteria:	Interaction	Individual	Purpose/Goal		
	Totals					
Head-	Counts	TW1-2-1	TW1-2-2	TW1-2-3		
<20SCH						
~205CH						
205011	Exceeds	355	353	355		
	Exceeds Meets	355 813	353 824	355 792		

20+SCH				
	Exceeds	842	818	834
	Meets	1541	1562	1527
	Not Met	160	166	178
	Totals	2543	2546	2539
Grand Total		3884	3893	3871

% Within Category		TW-1	TW-2	TW-3
<20SCH				
	Exceeds	26.47%	26.21%	26.65%
	Meets	60.63%	61.17%	59.46%
	Not Met	12.90%	12.62%	13.89%
	Totals	100.00%	100.00%	100.00%

20+SCH				
	Exceeds	33.11%	32.13%	32.85%
	Meets	60.60%	61.35%	60.14%
	Not Met	6.29%	6.52%	7.01%
	Totals	100.00%	100.00%	100.00%

% of Category		TW-1	TW-2	TW-3
<20SCH				
	Exceeds	9.14%	9.07%	9.17%
	Meets	20.93%	21.17%	20.46%
	Not Met	4.45%	4.37%	4.78%
	Totals	34.53%	34.60%	34.41%

20+SCH				
	Exceeds	21.68%	21.01%	21.54%
	Meets	39.68%	40.12%	39.45%
	Not Met	4.12%	4.26%	4.60%
	Totals	65.47%	65.40%	65.59%
Grand	l Total	100.00%	100.00%	100.00%

### Part 3: Comparisons

#### Table 13: Comparison of Fall 2016 to Spring 2017: Percentages of Success

Percentages of students who received either "exceeds" or "meets" criteria (%EM) are compared. T test between fall and spring shows no significant difference between these two samples. (T value: 0.017606)

_			F16 EM	S17 EM
Outcome	Criteria		%	%
	Organization	CS1-1	87.90%	86.72%
CS1: Written Communication	Development Support	CS1-2	82.11%	83.91%
	Language Skills	CS1-3	87.13%	86.96%
	Format	CS1-4	79.05%	81.70%
CS2: Oral	Develop Support	CS2-1	90.62%	91.97%
Communication	Express Ideas	CS2-2	86.58%	86.46%
CS3: Visual	Develop Support	CS3-1	83.93%	84.17%
Communication	Express Ideas	CS3-2	83.52%	83.07%
	Position	CT1-1	87.47%	85.79%
CT1: Generate/Communicate	Explanation	CT1-2	85.58%	84.25%
Generale/Communicate	Evidence	CT1-3	80.24%	80.05%
	Conclusion	CT1-4	85.66%	84.44%
	Evidence	CT2- 3-1	47.19%	47.88%
CT 2-3:	Analysis	CT2- 3-2	51.10%	51.56%
Analyze/Evaluate	Evaluation	CT2- 3-3	54.25%	54.84%
	Synthesis	CT2- 3-4	50.51%	50.41%
	Manipulate	EQS1- 1	75.17%	70.50%
EQS 1: Numerical Data	Analyze	EQS1- 2	73.19%	68.80%
	Conclusion	EQS1- 3	75.66%	66.13%
	Manipulate	EQS2- 1	60.46%	62.70%
EQS 2: Observable Facts	Analyze	EQS2- 2	62.86%	64.10%
	Conclusion	EQS2- 3	65.86%	65.75%
PR 1: Choices and Consequences	Identification	PR1-1	88.81%	87.13%

	Connection	PR1-2	88.57%	86.77%
	Response	PR1-3	88.22%	86.45%
SR 1: Intercultural	Recognize elements	SR1-1	92.59%	90.76%
Competence	Describe effects	SR1-2	90.43%	89.94%
	Comprehend	SR2-1	85.78%	84.40%
SR 2: Civic Responsibility	Reflect	SR2-2	86.07%	85.52%
Responsibility	Communicate	SR2-3	86.77%	86.00%
	Awareness	SR3-1	89.53%	87.37%
SR 3: Communities	Impact	SR3-2	88.34%	85.64%
	Action	SR3-3	84.84%	79.45%
	Team Interaction	TW1- 2-1	91.31%	91.43%
TW 1-2: Teamwork	Individual	TW1- 2-2	90.98%	91.37%
	Purpose/Goal	TW1- 2-3	90.98%	90.62%

\*An error occurred in the processing of data from BIOL 2401 and 2402 which skewed the results for CT2-3 and EQS 2.

#### Table 14: Comparison of Students with <20 to Students with 20+ SCH: Percentages of Success

Fall 2016 and Spring 2017 were combined for this analysis. Percent of success (%EM) is the combination of scores of "exceeds" and "meets" criteria. Comparison of students with fewer than 20 SCH (semester credit hours) shows significantly lower rates of success when compared with students who have earned at least 20 semester hours of college credit (T value: 3.8775E-06).

Objective:	Criteria	:	16-17 <20SCH EM%	16-17 20+SCH EM%
	Organization	CS1-1	83.47%	89.28%
CS1: Written Communication	Development Support	CS1-2	79.46%	85.04%
	Language Skills	CS1-3	83.60%	88.89%
	Format	CS1-4	76.61%	82.55%
CS2: Oral	Develop Support	CS2-1	83.86%	94.10%
Communication	Express Ideas	CS2-2	80.61%	88.73%
CS3: Visual	Develop Support	CS3-1	77.94%	86.55%
Communication	Express Ideas	CS3-2	75.93%	86.15%
	Position	CT1-1	84.14%	88.19%
CT1: Generate/Communicate	Explanation	CT1-2	81.90%	86.76%
	Evidence	CT1-3	77.16%	81.93%
	Conclusion	CT1-4	81.67%	87.09%
	Evidence	CT2- 3-1	45.59%	48.01%
CT 2-3:	Analysis	CT2- 3-2	49.37%	51.81%
Analyze/Evaluate	Evaluation	CT2- 3-3	53.22%	54.85%
	Synthesis	CT2- 3-4	48.32%	51.00%
	Manipulate	EQS1- 1	66.34%	75.17%
EQS 1: Numerical Data	Analyze	EQS1- 2	64.66%	73.28%
	Conclusion	EQS1- 3	62.71%	73.83%
	Manipulate	EQS2- 1	66.05%	59.82%
EQS 2: Observable Facts	Analyze	EQS2- 2	67.83%	61.78%
	Conclusion	EQS2- 3	70.63%	63.90%
DD 1. Chainge and	Identification	PR1-1	86.92%	88.69%
PR 1: Choices and Consequences	Connection	PR1-2	86.33%	88.56%
	Response	PR1-3	85.89%	88.29%
SR 1: Intercultural Competence	Recognize elements	SR1-1	89.69%	92.76%

	Describe effects	SR1-2	87.47%	91.58%
SR 2: Civic Responsibility	Comprehend	SR2-1	86.18%	84.58%
	Reflect	SR2-2	86.71%	85.35%
	Communicate	SR2-3	87.38%	85.90%
SR 3: Communities	Awareness	SR3-1	83.98%	91.28%
	Impact	SR3-2	81.70%	90.36%
	Action	SR3-3	76.72%	85.67%
TW 1-2: Teamwork	Team Interaction	TW1- 2-1	87.47%	93.47%
	Individual	TW1- 2-2	87.35%	93.23%
	Purpose/Goal	TW1- 2-3	86.81%	92.98%





#### Table 15: Combined Results: Communication Skills

Objective:	Criteri	a:	Not Met	Meets	Exceeds
	Organization	CS1-1	10.72%	56.34%	32.95%
CS1: Written Communication	Development Support	CS1-2	14.96%	56.50%	28.53%
	Language Skills	CS1-3	11.11%	58.94%	29.95%
	Format	CS1-4	17.45%	55.18%	27.37%
CS2: Oral	Develop Support	CS2-1	5.90%	54.78%	39.32%
Communication	Express Ideas	CS2-2	11.27%	53.06%	35.66%
CS3: Visual	Develop Support	CS3-1	13.45%	68.69%	17.85%
Communication	Express Ideas	CS3-2	13.85%	68.41%	17.73%



#### Table 16: Combined Results: Critical Thinking

Objective:	Criter	ia:	Not Met	Meets	Exceeds
CT1:	Position	CT1-1	11.81%	56.72%	31.47%
	Explanation	CT1-2	13.24%	55.50%	31.27%
Generate/Communicate	Evidence	CT1-3	18.07%	52.60%	29.34%
	Conclusion	CT1-4	12.91%	56.27%	30.82%
	Evidence	CT2-3-1	51.99%	39.33%	8.68%
	Analysis	CT2-3-2	48.19%	42.44%	9.37%
CT 2-3: Analyze/Evaluate	Evaluation	CT2-3-3	45.15%	45.65%	9.20%
	Synthesis	CT2-3-4	49.00%	42.82%	8.18%



\*An error occurred in the processing of data from BIOL 2401 and 2402 which skewed the results for CT2-3 and EQS 2.

### Table 17: Combined Results: Empirical and Quantitative Skills

Objective:	Criteria:		Not Met	Meets	Exceeds
506.4	Manipulate	EQS1- 1	24.83%	55.49%	19.68%
EQS 1: Numerical Data	Analyze	EQS1- 2	26.72%	54.69%	18.60%
Data	Conclusion	EQS1- 3	26.17%	53.00%	20.83%
500.0	Manipulate	EQS2- 1	40.18%	44.68%	15.14%
EQS 2: Observable Facts	Analyze	EQS2- 2	38.22%	44.91%	16.87%
	Conclusion	EQS2- 3	36.10%	47.14%	16.76%



## Table 18: Combined Results: Personal Responsibility

Objective:	Criteria:		Not Met	Meets	Exceeds
	Identification	PR1- 1	11.31%	56.99%	31.70%
PR 1: Choices and Consequences	Connection	PR1- 2	11.44%	57.14%	31.43%
	Response	PR1- 3	11.71%	57.75%	30.54%



## Table 19: Combined Results: Social Responsibility

Objective:	Criteria:		Not Met	Meets	Exceeds
SR 1: Intercultural Competence	Recognize elements	SR1- 1	7.24%	58.16%	34.60%
	Describe effects	SR1- 2	8.42%	59.79%	31.78%
	Comprehend	SR2- 1	15.42%	42.00%	42.58%
SR 2: Civic Responsibility	Reflect	SR2- 2	14.65%	45.89%	39.46%
	Communicate	SR2- 3	14.10%	44.20%	41.71%
SR 3: Communities	Awareness	SR3- 1	8.72%	59.62%	31.66%
	Impact	SR3- 2	9.64%	59.66%	30.70%
	Action	SR3- 3	14.33%	57.09%	28.58%



### Table 20: Combined Results: Teamwork

Objective:	Criteria:		Not Met	Meets	Exceeds
<b>EW 4</b> 2:	Team Interaction	TW1- 2-1	6.53%	62.11%	31.36%
TW 1-2: Teamwork	Individual	TW1- 2-2	6.77%	62.64%	30.59%
	Purpose/Goal	TW1- 2-3	7.02%	62.26%	30.72%



#### Table 21: Comparison of Spring 2015, Spring 2016, Spring 2017: Percentages of Success

Students who rated "exceeds" or "meets" criteria were compared from one spring semester to the next. The results from Spring 2015 and Spring 2016 are not significantly different (T value: 0.102635). The results from Spring 2016 and Spring 2017 shows significantly lower rates of success in Spring 2017 compared to Spring 2016 (T value: 5.91707E-07). The results from Spring 2015 and Spring 2017 shows significantly lower rates of success in Spring 2016 (T value: 1.15807E-05).

\*An error occurred in the processing of data from BIOL 2401 and 2402 which skewed the results for CT2-3 and EQS 2.

Outcome	Criteria	S15 EM %	S16 EM %	S17 EM %
	Organization	92%	91%	86.72%
CS1: Written Communication	Development Support	91%	87%	83.91%
	Language Skills	91%	89%	86.96%
	Format	89%	85%	81.70%
CS2: Oral	Develop Support	94%	96%	91.97%
Communication	Express Ideas	95%	97%	86.46%
CS3: Visual Communication	Develop Support	93%	91%	84.17%
	Express Ideas	93%	92%	83.07%
	Position	92%	91%	85.79%
CT1:	Explanation	91%	88%	84.25%
Generate/Communicate	Evidence	88%	84%	80.05%
	Conclusion	91%	89%	84.44%
	Evidence	90%	65%	47.88%
CT 2 2.	Analysis	89%	69%	51.56%
CT 2-3: Analyze/Evaluate	Evaluation	88%	70%	54.84%
	Synthesis	88%	69%	50.41%
EQS 1: Numerical Data	Manipulate	81%	87%	70.50%
	Analyze	82%	87%	68.80%

	Conclusion	75%	91%	66.13%
	Manipulate	90%	74%	62.70%
EQS 2: Observable Facts	Analyze	90%	79%	64.10%
	Conclusion	89%	79%	65.75%
	Identification	91%	90%	87.13%
PR 1: Choices and Consequences	Connection	90%	90%	86.77%
	Response	90%	84%	86.45%
SR 1: Intercultural	Recognize elements	87%	84%	90.76%
Competence	Describe effects	88%	85%	89.94%
	Comprehend	85%	96%	84.40%
SR 2: Civic Responsibility	Reflect	83%	95%	85.52%
	Communicate	83%	90%	86.00%
SR 3: Communities	Awareness	96%	95%	87.37%
SK 3: Communities	Impact	94%	95%	85.64%
	Action	91%	95%	79.45%
TW 1-2: Teamwork	Team Interaction	92%	90%	91.43%
	Individual	92%	89%	91.37%
	Purpose/Goal	92%	90%	90.62%

