

# DATA COLLECTION

ONE OF THE NORCO COLLEGE SI PROGRAM'S GREATEST STRENGTH IS ITS DATA COLLECTION. THE DATA HAS CONTINUALLY DEMONSTRATED THAT STUDENTS WHO VOLUNTARILY PARTICIPATE IN SI SUCCEED AT A HIGHER RATES THAN THEIR NON-SI COUNTERPARTS.

AT NORCO COLLEGE "HISTORICALLY DIFFICULT" COURSES ARE DEFINED AS COURSES WITH SUCCESS RATES LOWER THAN 70% AND/OR WITHDRAWAL RATES HIGHER THAN 20%. THE SI COORDINATOR, MEETS WITH INSTITUTIONAL RESEARCH (IR) TO IDENTIFY "HISTORICALLY DIFFICULT" COURSES BY CONSIDERING THE FOLLOWING FACTORS:

- LOW SUCCESS RATES (LESS THAN 70%)
- AND/OR HIGH WITHDRAWAL RATES (HIGHER THAN 20%)
- HIGH IMPACT COURSES (HEADCOUNT WHERE THE MOST STUDENTS ARE)
- GATEWAY COURSES

WITH MUCH HELP FROM THE INSTITUTIONAL RESEARCH (IR) OFFICE, EFFECTIVE ANALYSIS AND REPORTING OF THE DATA COLLECTED HAS ENABLED THE GROWTH OF THE NORCO COLLEGE SI PROGRAM (THROUGH GRANT FUNDING) AND HAS ENHANCED THE PROGRAM'S REPUTATION. THE HISTORICAL SUCCESS RATE DATA BY SEMESTER HAS ALSO HELD RATHER CONSISTENT OVER THE SEMESTERS. OVER 70% OF STUDENTS SEEKING SI ASSISTANCE SUCCEEDED. ALSO, THE FINAL COURSE GPA FOR THE SI PARTICIPANTS IS HIGHER THAN THE FINAL COURSE GPA FOR THE NON-SI PARTICIPANTS.

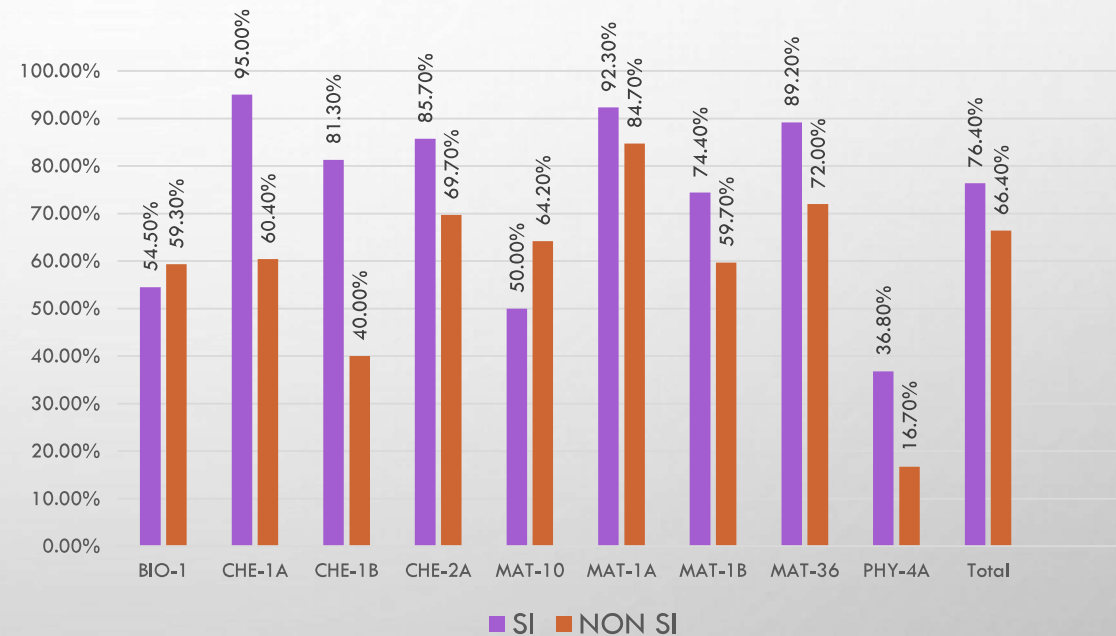
# SPRING 2016 SUPPLEMENTAL INSTRUCTION

An analysis was done to compare students who attended SI to the rest of the students in the same section who did not attend.

A significant difference in success rates was found between students who attended SI and students in the same sections who did not.

		Successful Enrollments	Total Enrollments	Success Rate	
BIO-1	No SI	36	66	54.5%	
	SI	16	27	59.3%	4.7%
CHE-1A	No SI	29	48	60.4%	
	SI	19	20	95.0%	34.6%
CHE-1B	No SI	6	15	40.0%	
	SI	13	16	81.3%	41.3%
CHE-2A	No SI	83	119	69.7%	
	SI	36	42	85.7%	16.0%
MAT-10	No SI	52	81	64.2%	
	SI	8	16	50.0%	-14.2%
MAT-1A	No SI	72	85	84.7%	
	SI	24	26	92.3%	7.6%
MAT-1B	No SI	46	77	59.7%	
	SI	32	43	74.4%	14.7%
MAT-36	No SI	103	143	72.0%	
	SI	33	37	89.2%	17.2%
PHY-4A	No SI	2	12	16.7%	
	SI	7	19	36.8%	20.2%
Total	No SI	429	646	66.4%	
	SI	188	246	76.4% *	10.0%

Success Rate Comparison of SI Participants vs. Non SI Participants



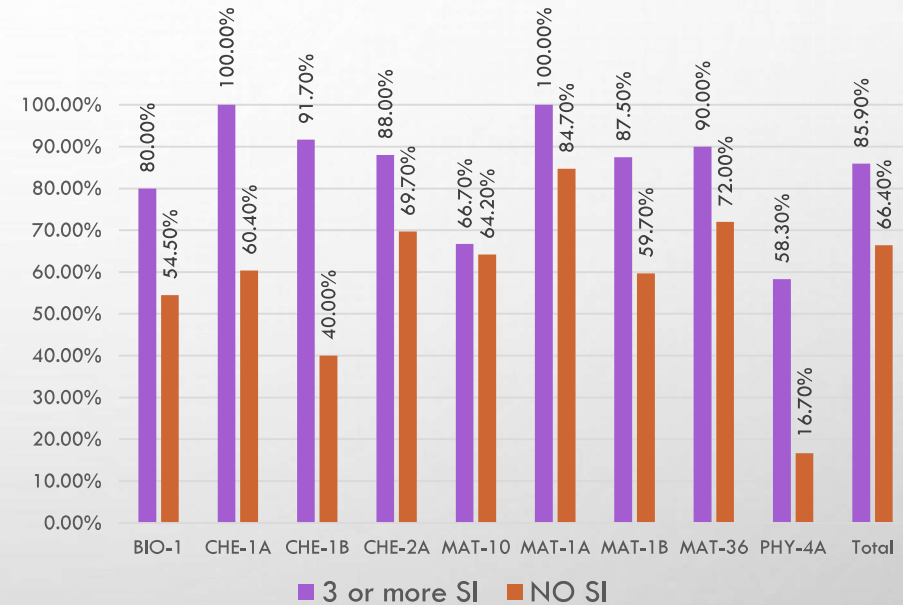
A student is considered an SI participant if the student attends at least 1 SI session.

# SPRING 2016 SUPPLEMENTAL INSTRUCTION

Comparison of Spring 16 students who attended 3 or more SI sessions versus those who attended 2 or less

	Number of Sessions Attended	Successful Enrollments	Total Enrollments	Success Rate	Difference between 3+ and 2 or less
BIO-1	No SI	36	66	54.5%	32.9%
	2 or less	8	17	47.1%	
	3 or more	8	10	80.0%	
CHE-1A	No SI	29	48	60.4%	8.3%
	2 or less	11	12	91.7%	
	3 or more	8	8	100.0%	
CHE-1B	No SI	6	15	40.0%	41.7%
	2 or less	2	4	50.0%	
	3 or more	11	12	91.7%	
CHE-2A	No SI	83	119	69.7%	5.6%
	2 or less	14	17	82.4%	
	3 or more	22	25	88.0%	
MAT-10	No SI	52	81	64.2%	26.7%
	2 or less	4	10	40.0%	
	3 or more	4	6	66.7%	
MAT-1A	No SI	72	85	84.7%	13.3%
	2 or less	13	15	86.7%	
	3 or more	11	11	100.0%	
MAT-1B	No SI	46	77	59.7%	29.6%
	2 or less	11	19	57.9%	
	3 or more	21	24	87.5%	
MAT-36	No SI	103	143	72.0%	1.8%
	2 or less	15	17	88.2%	
	3 or more	18	20	90.0%	
PHY-4A	No SI	2	12	16.7%	58.3%
	2 or less	0	7	0.0%	
	3 or more	7	12	58.3%	
Total	No SI	429	646	66.4%	19.8%
	2 or less	78	118	66.1%	
	3 or more	110	128	85.9%	

Success Comparison of students Who Attended 3 or more SI Sessions Versus Non SI Participants



\* significant difference overall  $t=3.705$ ,  $p<.01$

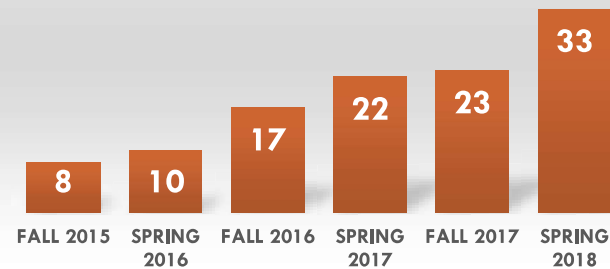
A significant difference in success rates was found between students who attended 3 or more SI sessions and students in the same sections who attended 2 or less.

# SUPPLEMENTAL INSTRUCTION OVERVIEW

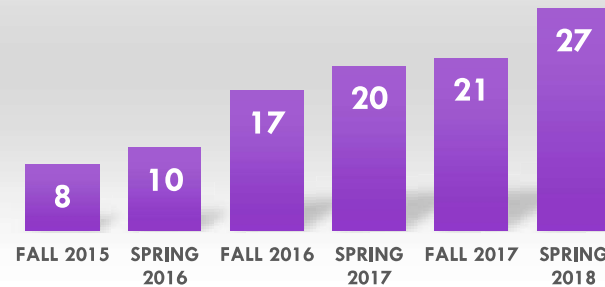
## FALL 2015 – SPRING 2018

	FALL 2015	SPRING 2016	FALL 2016	SPRING 2017	FALL 2017	SPRING 2018
# of SI Sections	8	10	17	22	23	33
# of Students SI Leaders Employed	8	10	17	20	21	27
Participation Rate	N/A	28%	27%	35%	34%	TBD

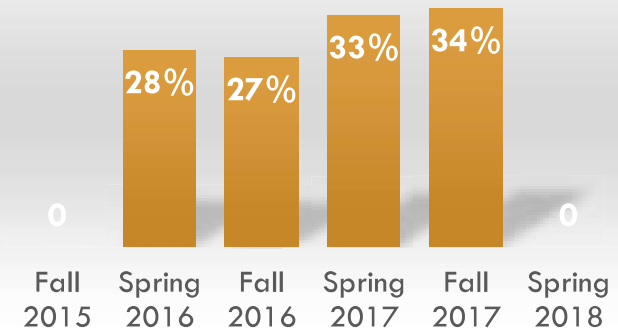
SI Course Offering per Semester



SI Leaders Employed per Semester



Participation Rate

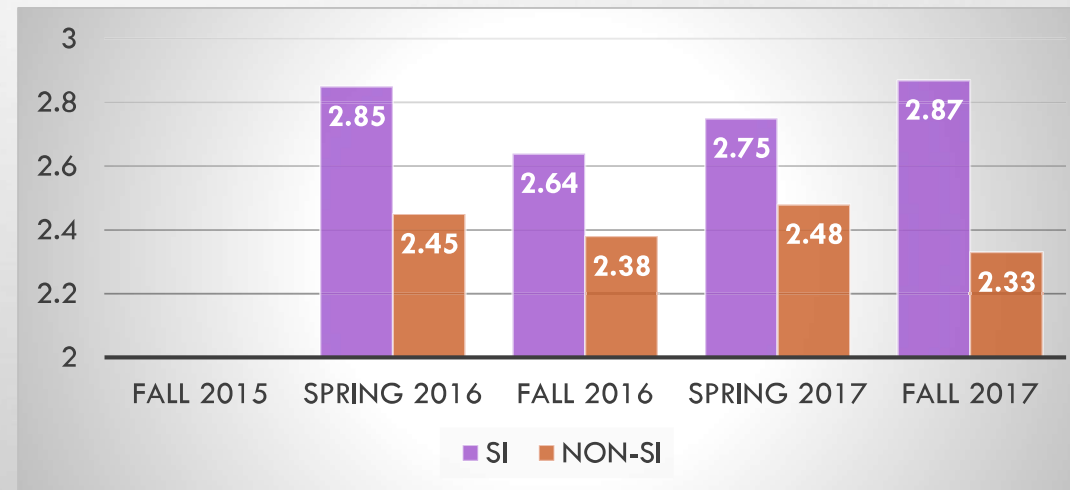


# SUPPLEMENTAL INSTRUCTION FALL 2015 – FALL 2017

## MEAN COURSE GRADE COMPARISON OF SI PARTICIPANT VERSUS NON-SI PARTICIPANT

The data presented in the chart below show the mean grades of total course enrollment separated by each term. As shown, the grades on average 0.37 grade points higher for SI participants than for Non-SI participants possibly indicating that SI helps contribute to higher grades for those that participate in it. Descriptive comparisons for mean final grade in all SI supported courses were conducted between SI and non-SI participants to determine the effect that SI had on participants mean final course grades. The results yielded a statistically significant finding at,  $p < .0001$ . Students participating in SI ( $M = 2.78$ ) demonstrated better mean final course grades than was demonstrated by non-SI students ( $M = 2.41$ ).

TERM	Mean Grade SI	Mean Grade NON-SI	
FALL 2015	No Data Available		
SPRING 2016	2.85	2.45	.40
FALL 2016	2.64	2.38	.26
SPRING 2017	2.75	2.48	.27
FALL 2017	2.87	2.33	.54
<b>Total</b>	<b>2.78</b>	<b>2.41</b>	<b>.37</b>

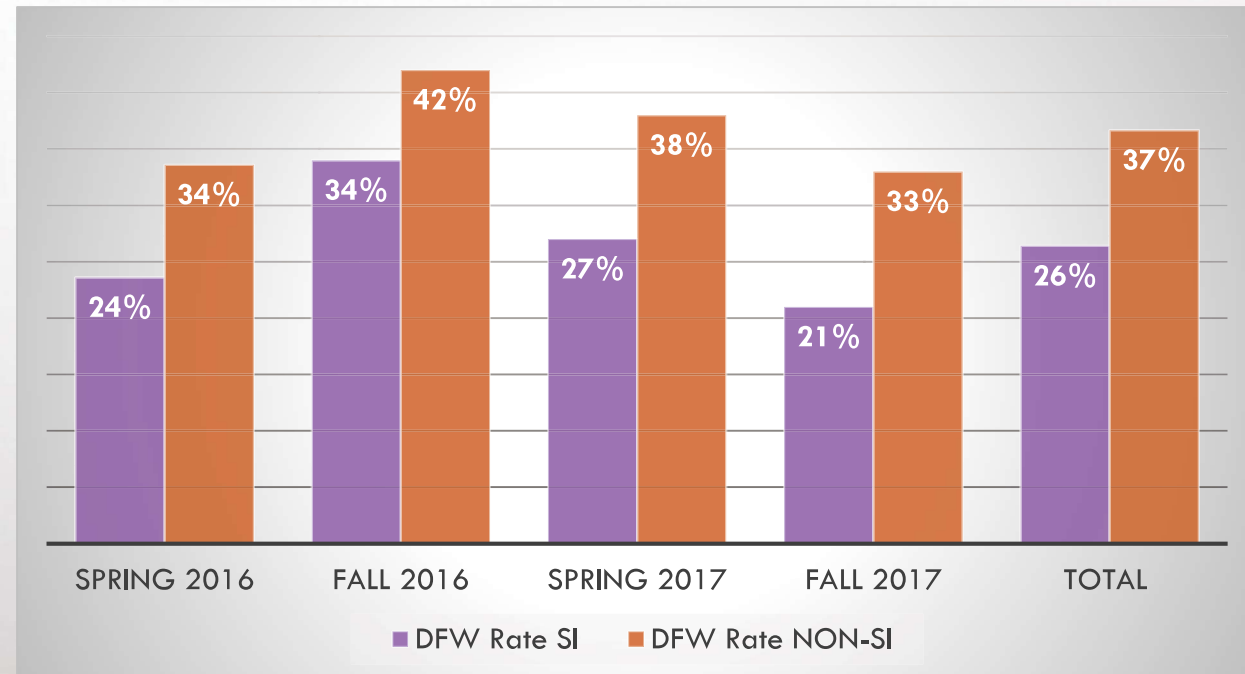


A student is considered an SI participant if the student attends at least 1 SI session.

# SUPPLEMENTAL INSTRUCTION SPRING 2016 – SPRING 2018

## DFW COMPARISON OF SI PARTICIPANT VERSUS NON-SI PARTICIPANT

TERM	DFW Rate SI	DFW Rate NON-SI
FALL 2015	No Data Available	
SPRING 2016	24%	34%
FALL 2016	34%	42%
SPRING 2017	27%	38%
FALL 2017	21%	33%
<b>Total</b>	<b>26%</b>	<b>37%</b>



A student is considered an SI participant if the student attends at least 1 SI session.



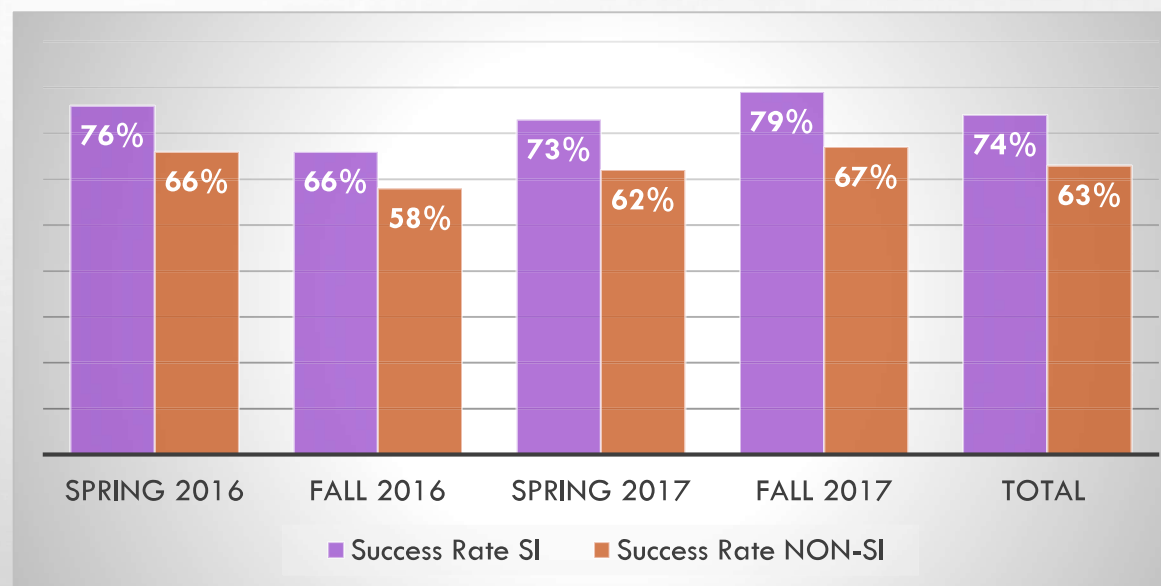
# SUPPLEMENTAL INSTRUCTION SPRING 2016 – SPRING 2018

## SUCCESS COMPARISON OF SI PARTICIPANT VERSUS NON-SI PARTICIPANT

At Norco College, the SI participants' success rates over the past 2 years range from 66% to 79%, whereas the non-SI participants success rates range from 58% to 67%. The semester-by-semester look at success rates and DFW rate and course GPA for the SI participants and non-SI participants are described in the table below:

TERM	ABC Rate SI	ABC Rate NON-SI
FALL 2015	No Data Available	
SPRING 2016	76%	66%
FALL 2016	66%	58%
SPRING 2017	73%	62%
FALL 2017	79%	67%
Total	74%	63%

If needed, detailed grade distributions by class and by semester can be obtained from the SI Coordinator.



A student is considered an SI participant if the student attends at least 1 SI session.