

Relationship between Summer Enrollment at UC Merced or Elsewhere and Ability to Graduate in Four or Six Years

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Among the many reasons to enroll in summer sessions is the possibility of staying on pace to graduate in four years. At UC Merced (UCM), the majority of freshmen (52%) starting in the fall terms of 2006, 2007 and 2008 enrolled for at least one summer session during their tenure at UCM. Even though the majority attends a summer term at UCM, there is much room for growth if the behavior of undergraduates at other UC campuses can be used as a standard. The summer term participation rate for UCLA students at UCLA is 80% and the rate for UCI students at UCI is 70%. This report examines the extent of summer enrollments of UC Merced students at UCM and at other colleges, whether summer enrollment¹ has been an effective strategy to increase the probability of degree completion within four years, and whether there have been differences in summer enrollments by School.² For this report, data about UCM summer enrollments came from registration records. Data about enrollments at other colleges came from the National Student Clearinghouse and includes only summer enrollments followed by return to UCM, not those for whom summer enrollment elsewhere might have been a first step to transferring out.

Tables 1a and 1b examine the relationships among School of final major, summer enrollments, and academic year enrollments for UCM summers (Table 1a) and summers at other colleges (Table 1b). (Note that this paper defines academic year as the fall and spring semesters.) The first finding was a significant and important correlation between total UCM academic year semesters enrolled and number of summers enrolled at UCM. Stated simply, students were more likely to have enrolled in summer at UCM as their length of time as a student increased. Figure 1a illustrates the nearly linear increase in summer enrollments with increasing academic year semesters. The relationship was strongest for those students who never declared a major and weakest for those in the School of Social Sciences, Humanities, and Arts (SSHA). Figure 2a displays the relationship between UCM summer participation and academic year terms by School and there was obviously a great deal of overlap among Schools. The positive association between summer term enrollments and academic year enrollments overall is presented in more detail in the remainder of Table 1a. In contrast with summers at UCM, the correlation between summers at other colleges and academic year enrollments was weak (0.09) overall (Figure 1b) and was no more than moderately strong for any School (Figure 2), accounting for no more than 5% of variance explained (Table 1b).

Beginning with the distribution for all students, the first column of Table 1a tells the tale about UCM summer enrollments. The percentage of students with zero summer enrollments quickly decreased as the number of academic year enrollments increased and the trend continued through 13 terms. Inversely, the likelihood of summer enrollment increased with the number of academic semesters. Freshmen who manage to enroll in only one or two semesters were very unlikely to have enrolled in summer (5% or

¹ Note that this study relies on UC Merced records. A student might have earned summer credits elsewhere, but those credits are not included in this report unless they were reported to UC Merced.

² School associated with student's declared major at time of graduation.

less). About 20% of students who enrolled in four terms, over 60% of those who enrolled in six or eight terms, and over 70% of those who enrolled in 10 terms enrolled for at least one summer. The number of summers enrolled quickly decreased. Twenty-six percent of all students enrolled in one summer, 17% in two, and 8% in three. Few students enrolled for more than three summer terms and they were most likely to have been students completing a bachelor's degree in nine semesters.

Obviously, no students with a final major of "undeclared" graduated. It is interesting that the pattern of summer enrollments for undeclared students was similar to that for students overall. In contrast, Engineering students were more likely to have enrolled in summer overall and by number of regular academic terms. Engineering students were the most likely to have enrolled in at least one summer session. Overall, 60% of engineering students accumulated 8, 9 or 10 academic-year semesters and just over one quarter of those students took zero summer sessions at UC Merced. For Natural Sciences students, the modal and most frequent categories for number of semesters taken were eight and nine respectively. About 70% of Natural Sciences students with eight terms, enrolled in at least one summer session, and about 80% of those with nine terms did so. SSHA students were most likely to complete a degree in eight semesters, an "on time" four-year degree, and about 60% of those completing in eight semesters enrolled in at least one summer term. Completing a degree in four years and enrolling in two summer terms was fairly common with 21% having done so. Across Schools, focusing on the percentage enrolling in at least one summer term and graduating in eight to twelve academic year semesters, a local increase in summer participation was occasionally apparent and therefore implied special effort to finish the degree. In particular, Natural Sciences students appeared to have made a special effort to graduate with no more than nine academic year semesters because there was a significant increase in summer enrollment associated with nine semesters in total. There is evidence that the nine semester limit policy in Natural Sciences is being enforced.

In contrast with UCM summer enrollments, summer enrollments of UCM students at other colleges were much less common overall and diminished quickly (Table 1b). UCM students enrolled at another college for summer classes at a rate of about one-in-eight students, and the rate quickly diminished to one-in-thirty for two summers and one-in-one hundred for three summers. A quick review of Figures 1b and 2b finds flat distributions and low rates overall and no important variation by School.

Was summer enrollment associated with a higher likelihood of graduating in four years?

For summer enrollments at UCM, the simple answer is yes. Summer attendance at UCM was positively associated with four year degree completion. Students who enrolled in one or more UCM summer semesters were more likely to have graduated in four years than those who did not. However, the pattern of the relationship varied by School. In Engineering, the likelihood of graduating in four years increased modestly from zero to one summer enrolled (13% to 18%) and was fairly consistent from one through three summers enrolled. Natural Sciences and SSHA students, in contrast, showed large increases in four-year degree completion associated with one or two summers enrolled (from 19% to 45% for Natural Sciences and from 38% to 51% for SSHA). Table 2a and Figure 3a describe the patterns in detail. The effectiveness of one or two summers enrolled was readily apparent for Natural Sciences, SSHA, and for students overall. The pattern for Engineering was not so apparent, but that was mostly due to the small percentage of students who completed an Engineering degree in four years. Again, the relationship between summers enrolled at other colleges was very different. As shown in Table 2b and

Figure 3b, there was no relationship between summer enrollments at other colleges and graduation in four years.

Table 3 describes summer session providers for UC Merced undergraduates. Recall that inclusion as a summer provider required that the students began as freshmen in fall 2006-2008, enrolled for a summer session at another college, and then returned to UC Merced. With those constraints, Merced College and UC Berkeley accounted for over half (52%) of all summer enrollments with Merced College being the most frequent provider (31%). Other top ten providers in decreasing order were San Joaquin Delta College (9.5%), UC Los Angeles (9.2%), Chabot College in Hayward (7.8%), UC Davis (5.3%), UC-Irvine (4.6%), Pasadena City College (4.2%), Santa Monica College (3.9%) and Sacramento City College of the Los Rios Community College District (3.5%).

Table 4 displays four- and six-year graduation rates for four groups of students: took no summer sessions, took summer sessions only at UCM, took summers only at other colleges, and took summer sessions at a combination of UCM and other colleges. The relationship between summer enrollment and degree completion in four years was very clear. Students who took summer sessions only at UCM or at UCM and another college, completed their degree in four years at a significantly higher rate than those who did not enroll in summer sessions or enrolled only for summers at another college (>10% higher). The four-year graduation rate for students enrolling for summer sessions at only other colleges was no higher than for those who never enrolled for summer sessions. A similar pattern was apparent for six-year graduation rates. Students who enrolled for summers at UCM, either only at UCM or at UCM and another college, graduated at higher rates than those who enrolled for summer sessions only at another college. There was a six-year graduation comparative advantage for those who enrolled for summer sessions only at UCM (55% vs. 47%).

In sum, enrollment for summer at UCM was common, was more likely over the students' tenure at UCM, and was associated with a higher four- and six-year graduation rates overall and by School. In contrast, summer enrollment only at other colleges was much less common (15%) and was not associated with completing a degree in four- or six- years. Another way to state the importance of summer enrollment at UCM is to note how much lower UCM four-year graduation rates would have been if there had been no summer enrollments and assuming that students did not compensate another way.³ Without summer enrollments at UCM, four-year graduation rates would have been as follows: the overall rate would have been 23%, or seven percentage points less; Engineering's rate would have been 13%, or four percentage points less; Natural Sciences' rate would have been 19%, or eleven percentage points less; and SSHA's rate would have been 38%, or six percentage points less. Overall, summer enrollment has been an effective means by which to improve the likelihood of earning a degree within four years.

³ Other types of compensation to complete a bachelor's degree in four years include enrolling for more than 15 student credit hours, completing requirements elsewhere, online or by examination.

Table 1a: Number of and Likelihood of Summer Enrollment by Number of Fall and Spring Semester Semesters Enrolled at UC Merced

Correlation between Total Semesters Enrolled and Summers Enrolled

Overall	0.49	< 0.0001
Undeclared (No graduates)	0.68	< 0.0001
Engineering	0.50	< 0.0001
Natural Sciences	0.51	< 0.0001
Social Sciences, Humanities and Arts	0.38	< 0.0001

Table of Total Fall and Spring Semesters Enrolled and Enrollment in Summer Sessions

Overall

Total Fall and Spring Semesters Enrolled	Summers						Mean	Summers						Sum
	0	1	2	3	4	5		0	1	2	3	4	5	
1	97%	3%					0.03	129	4	0	0			133
2	95%	5%					0.05	195	10	0	0			205
3	74%	25%	1%				0.28	53	18	1	0			72
4	79%	19%	2%				0.23	122	29	3	0			154
5	39%	48%	14%				0.75	17	21	6	0			44
6	36%	36%	26%	3%			0.96	25	25	18	2			70
7	26%	43%	23%	9%			1.15	24	40	22	8			94
8	37%	34%	22%	7%	1%	0%	1.02	243	222	142	43	9	1	660
9	25%	25%	27%	19%	4%	0%	1.54	89	88	96	69	15	1	358
10	28%	35%	20%	13%	3%	1%	1.30	40	49	29	19	4	1	142
11	24%	22%	24%	20%	7%	2%	1.71	10	9	10	8	3	1	41
12	8%	17%	33%	42%			2.08	1	2	4	5			12
13		---	---				2.50	0	1	2	0		1	4
	48%	26%	17%	8%	2%	0%	0.90	948	518	333	154	31	5	1,989

Undeclared (No graduates)

Total Fall and Spring Semesters Enrolled	Summers						Mean	Summers						Sum
	0	1	2	3	4	5		0	1	2	3	4	5	
1	100%						0.00	29	0	0				29
2	98%	2%					0.02	62	1	0				63
3	71%	29%					0.29	17	7	0				24
4	82%	13%	5%				0.23	32	5	2				39
5	37%	42%	21%				0.84	7	8	4				19
6	50%	50%					0.50	10	10	0				20
7	---	---	---				1.00	2	2	2				6
8	---	---	---				0.88	2	5	1				8
9	20%	25%	20%	25%	5%	5%	1.85	4	5	4	5	1	1	20
10		---	---				1.67	0	1	2				3
11				---	---	---	3.75	0	0	0	2	1	1	4
12								0	0	0				0
13								0	0	0				0
	70%	19%	6%	3%	1%	1%	0.48	165	44	15	7	2	2	235

Table 1a: Number of and Likelihood of Summer Enrollment by Number of Fall and Spring Semester Semesters Enrolled at UC Merced

Engineering		Summers					Mean	Summers						
Total Fall and Spring Semesters Enrolled		0	1	2	3	4	5 Summers	0	1	2	3	4	5	Sum
1	91%	9%					0.09	21	2					23
2	94%	6%					0.06	30	2					32
3	62%	38%					0.38	8	5					13
4	68%	32%					0.32	15	7					22
5	36%	64%					0.64	4	7					11
6	---	---	---				1.00	1	1	1				3
7	---	---	---	---			1.00	3	4	1	1			9
8	30%	36%	23%	10%	1%		1.17	21	25	16	7	1		70
9	25%	20%	32%	18%	5%		1.57	22	17	28	16	4		87
10	24%	48%	12%	14%	2%		1.24	10	20	5	6	1		42
11	15%	31%	38%	15%			1.54	2	4	5	2			13
12	---	---	---	---			1.67	1	1	3	1			6
13			---				3.50	0	0	1			1	2
	41%	29%	18%	10%	2%	0%	1.03	138	95	60	33	6	1	333
Natural Sciences		Summers					Mean	Summers						
Total Fall and Spring Semesters Enrolled		0	1	2	3	4	5 Summers	0	1	2	3	4	5	Sum
1	98%	2%					0.02	44	1	0				45
2	94%	6%					0.06	44	3	0				47
3	71%	24%	6%				0.35	12	4	1				17
4	88%	13%					0.13	35	5	0				40
5	---	---	---				0.60	3	1	1				5
6	47%	13%	27%	13%			1.07	7	2	4	2			15
7	17%	39%	22%	22%			1.50	3	7	4	4			18
8	29%	38%	23%	8%	1%		1.15	51	68	41	15	2		177
9	21%	27%	26%	20%	6%		1.64	26	34	33	25	8		126
10	28%	23%	25%	15%	8%	3%	1.60	11	9	10	6	3	1	40
11	36%	29%	7%	14%	14%		1.43	5	4	1	2	2		14
12			---	---			2.75		0	1	3			4
13		---					1.00		1	0				1
	44%	25%	17%	10%	3%	0%	1.03	241	139	96	57	15	1	549

Table 1a: Number of and Likelihood of Summer Enrollment by Number of Fall and Spring Semester Semesters Enrolled at UC Merced

Social Sciences, Humanities and Arts Total Fall and Spring Semesters Enrolled	Summers					Mean 5 Summers	Summers					Sum		
	0	1	2	3	4		0	1	2	3	4		5	
1	97%	3%				0.03	35	1	0				36	
2	94%	6%				0.06	59	4	0				63	
3	89%	11%				0.11	16	2	0				18	
4	75%	23%	2%			0.26	40	12	1				53	
5	33%	56%	11%			0.78	3	5	1				9	
6	22%	38%	41%			1.19	7	12	13				32	
7	26%	44%	25%	5%		1.08	16	27	15	3			61	
8	42%	31%	21%	5%	1%	0%	0.95	169	124	84	21	6	1	405
9	30%	26%	25%	18%	2%		1.37	37	32	31	23	2		125
10	33%	33%	21%	12%			1.12	19	19	12	7			57
11	30%	10%	40%	20%			1.50	3	1	4	2			10
12		---		---			2.00	0	1	0	1			2
13			100%				2.00	0	0	1	0			1
	46%	28%	19%	7%	1%	0%	0.89	404	240	162	57	8	1	872

-- Fewer than 10 cases

Table 1b: Number of and Likelihood of Summer Enrollment by Number of Fall and Spring Semester Semesters Enrolled at Other Campuses

Correlation between Total Semesters Enrolled and Summers Enrolled Elsewhere

Overall	0.09	< 0.0001	The relationships are not important (<5% of variance explained in all cases).
Undeclared (No graduates)	0.21	0.0014	
Engineering	0.13	0.0159	
Natural Sciences	0.10	0.0159	
Social Sciences, Humanities and Arts	0.05	0.1356	

Table of Total Fall and Spring Semesters Enrolled and Enrollment in Summer Sessions

Overall		Summers					Mean	Summers					Sum	
Total Fall and Spring Semesters Enrolled		0	1	2	3	4	5 Summers	0	1	2	3	4	5	
1	99%	1%					0.01	132	1					133
2	93%	5%	2%				0.09	190	11	4				205
3	86%	10%	4%				0.18	62	7	3				72
4	84%	14%	2%		1%		0.20	129	21	3		1		154
5	80%	14%	5%		2%		0.32	35	6	2		1		44
6	74%	20%	3%	3%			0.34	52	14	2	2			70
7	77%	17%	4%	1%	1%		0.33	72	16	4	1	1		94
8	84%	12%	3%	1%			0.20	555	82	18	5			660
9	80%	13%	5%	1%	0%		0.28	287	48	19	3	1		358
10	89%	8%	3%				0.14	126	12	4				142
11	80%	15%	2%	2%			0.27	33	6	1	1			41
12	100%						0.00	12						12
13	100%	---	---				0.00	4						4
	85%	11%	3%	1%	0%		0.20	1,689	224	60	12	4	0	1,989

Undeclared (No graduates)		Summers					Mean	Summers					Sum	
Total Fall and Spring Semesters Enrolled		0	1	2	3	4	5 Summers	0	1	2	3	4	5	
1	100%						0.00	29						29
2	89%	11%					0.11	56	7					63
3	83%	13%	4%				0.21	20	3	1				24
4	87%	10%	3%				0.15	34	4	1				39
5	68%	26%	5%				0.37	13	5	1				19
6	75%	15%		10%			0.45	15	3		2			20
7	---	---	---				0.50	4	1	1				6
8	---	---	---	13%			0.63	5	2		1			8
9	85%	5%	10%				0.25	17	1	2				20
10	67%	---	---				0.33	2	1					3
11	75%	25%		---	---	---	0.25	3	1					4
12														0
13														0
	84%	12%	3%	1%			0.21	198	28	6	3	0	0	235

Table 1b: Number of and Likelihood of Summer Enrollment by Number of Fall and Spring Semester Semesters Enrolled at Other Campuses

Engineering		Summers					Mean	Summers					Sum	
Total Fall and Spring Semesters Enrolled		0	1	2	3	4	5 Summers	0	1	2	3	4	5	Sum
1	100%						0.00	23						23
2	94%			6%			0.13	30		2				32
3	92%	8%					0.08	12	1					13
4	91%	9%					0.09	20	2					22
5	100%						0.00	11						11
6	---	---	---				0.00	3						3
7	---	---	---	---			0.22	7	2					9
8	89%	11%					0.11	62	8					70
9	83%	14%	3%				0.21	72	12	3				87
10	90%	7%	2%				0.12	38	3	1				42
11	62%	23%	8%	8%			0.62	8	3	1	1			13
12	---	---	---	---			0.00	6						6
13	100%		---				0.00	2						2
	88%	9%	2%	0%			0.14	294	31	7	1	0	0	333
Natural Sciences		Summers					Mean	Summers					Sum	
Total Fall and Spring Semesters Enrolled		0	1	2	3	4	5 Summers	0	1	2	3	4	5	Sum
1	98%	2%					0.02	44	1					45
2	94%	4%	2%				0.09	44	2	1				47
3	94%	6%					0.06	16	1					17
4	85%	13%			3%		0.23	34	5			1		40
5	---	---	---				0.00	5						5
6	73%	27%					0.27	11	4					15
7	61%	22%	11%	6%			0.61	11	4	2	1			18
8	85%	10%	5%	1%			0.21	150	18	8	1			177
9	79%	15%	4%	2%	1%		0.31	99	19	5	2	1		126
10	88%	10%	3%				0.15	35	4	1				40
11	93%	7%					0.07	13	1					14
12	100%		---	---			0.00	4						4
13	100%	---					0.00	1						1
	85%	11%	3%	1%	0%		0.21	467	59	17	4	2	0	549

Table 1b: Number of and Likelihood of Summer Enrollment by Number of Fall and Spring Semester Semesters Enrolled at Other Campuses

Social Sciences, Humanities and Arts Total Fall and Spring Semesters Enrolled	Summers					Mean 5 Summers	Summers					Sum	
	0	1	2	3	4		0	1	2	3	4		5
1	100%					0.00	36						36
2	95%	3%	2%			0.06	60	2	1				63
3	78%	11%	11%			0.33	14	2	2				18
4	77%	19%	4%			0.26	41	10	2				53
5	67%	11%	11%		11%	0.78	6	1	1		1		9
6	72%	22%	6%			0.34	23	7	2				32
7	82%	15%	2%		2%	0.25	50	9	1		1		61
8	83%	13%	2%	1%		0.20	338	54	10	3			405
9	79%	13%	7%	1%		0.30	99	16	9	1			125
10	89%	7%	4%			0.14	51	4	2				57
11	90%	10%				0.10	9	1					10
12	100%	---		---		0.00	2						2
13	100%					0.00	1						1
	84%	12%	3%	0%	0%	0.21	730	106	30	4	2	0	872

-- Fewer than 10 cases

Table 2a: Graduation in Four Years and Summer Enrollment at UC Merced (Freshman Cohorts 2006-08)

School of Final Major	Number of Summer Sessions Enrolled							Prob. (Fisher or Chi Square)	Number of Summer Sessions Enrolled						
	0	1	2	3	4	5	0		1	2	3	4	5		
Distribution															
Undeclared (No graduates)	70%	19%	6%	3%	1%	---	100%		165	44	15	7	2	2	235
Engineering	41%	29%	18%	10%	2%	---	100%		138	95	60	33	6	1	333
Natural Sciences	44%	25%	17%	10%	3%	---	100%		241	139	96	57	15	1	549
Social Sciences, Humanities and Arts	46%	28%	19%	7%	1%	---	100%		404	240	162	57	8	1	872
Sum	48%	26%	17%	8%	2%	---	100%	0.0001 *	948	518	333	154	31	5	1,989
Graduated in Four Years															
Yes, Graduated from UCM	23%	39%	42%	21%	23%	---	30%	0.0001 *	219	202	141	32	7	1	602
No, Did not graduate from UCM	77%	61%	58%	79%	77%	---	70%		729	316	192	122	24	4	1,387
Engineering															
Yes, Graduated from UCM	13%	18%	23%	18%	---	---	17%	0.5230 *	18	17	14	6	1	0	56
No, Did not graduate from UCM	87%	82%	77%	82%	---	---	83%		120	78	46	27	5	1	277
Natural Sciences															
Yes, Graduated from UCM	19%	45%	44%	19%	13%	---	30%	0.0001 *	46	62	42	11	2	0	163
No, Did not graduate from UCM	81%	55%	56%	81%	87%	---	70%		195	77	54	46	13	1	386
Social Sciences, Humanities and Arts															
Yes, Graduated from UCM	38%	51%	52%	26%	---	---	44%	0.0001 *	155	123	85	15	4	1	383
No, Did not graduate from UCM	62%	49%	48%	74%	---	---	56%		249	117	77	42	4	0	489

-- Fewer than 10 cases

* Less than

Table 2b: Graduation in Four Years and Summers Enrolled Elsewhere (Freshman Cohorts 2006-08)

School of Final Major	Number of Summer Sessions Enrolled							Prob. (Fisher or Chi Square)	Number of Summer Sessions Enrolled						
	0	1	2	3	4	5	100%		0	1	2	3	4	5	
Distribution															
Undeclared (No graduates)	84%	12%	3%	1%	---	---	100%		198	28	6	3			235
Engineering	88%	9%	2%	0%	---	---	100%		294	31	7	1			333
Natural Sciences	85%	11%	3%	1%	---	---	100%		467	59	17	4	2		549
Social Sciences, Humanities and Arts	84%	12%	3%	0%	---	---	100%		730	106	30	4	2		872
Sum	85%	11%	3%	1%	---	---	100%	0.7187 *	1,689	224	60	12	4	0	1,989
Graduated in Four Years															
Yes, Graduated from UCM	30%	34%	23%	33%	---	---	30%	0.5026 *	506	77	14	4	1		602
No, Did not graduate from UCM	70%	66%	77%	67%	---	---	70%		1,183	147	46	8	3		1,387
Engineering															
Yes, Graduated from UCM	17%	19%	0%	---	---	---	17%	0.6220 *	50	6					56
No, Did not graduate from UCM	83%	81%	100%	---	---	---	83%		244	25	7	1			277
Natural Sciences															
Yes, Graduated from UCM	30%	31%	29%	---	---	---	30%	0.9235 *	139	18	5	1			163
No, Did not graduate from UCM	70%	69%	71%	---	---	---	70%		328	41	12	3	2		386
Social Sciences, Humanities and Arts															
Yes, Graduated from UCM	43%	50%	30%	---	---	---	44%	0.2292 *	317	53	9	3	1		383
No, Did not graduate from UCM	57%	50%	70%	---	---	---	56%		413	53	21	1	1		489

-- Fewer than 10 cases

* Less than

Figures 1a: Relationship between Total Number of Fall and Spring Semesters and Summer Enrollments at UC Merced (Freshmen Cohorts 2006-08)

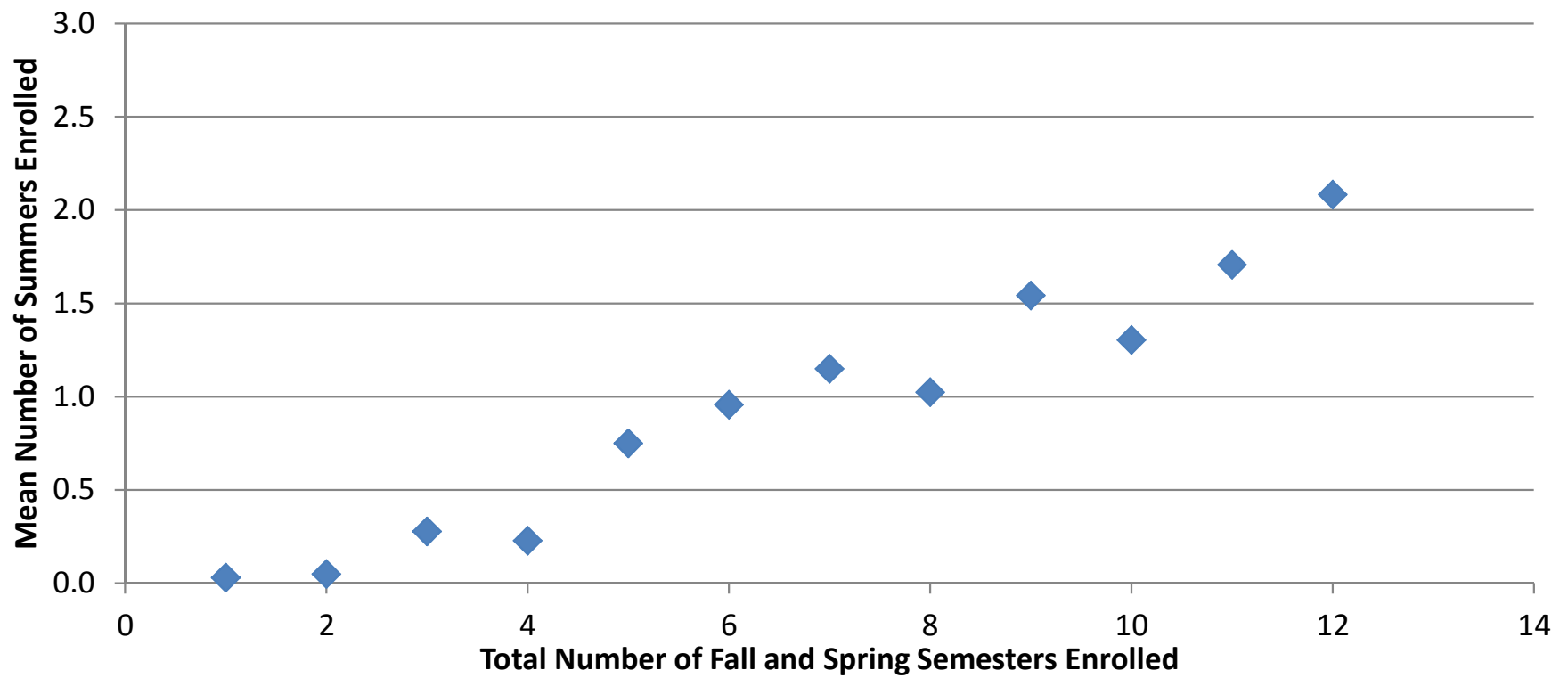
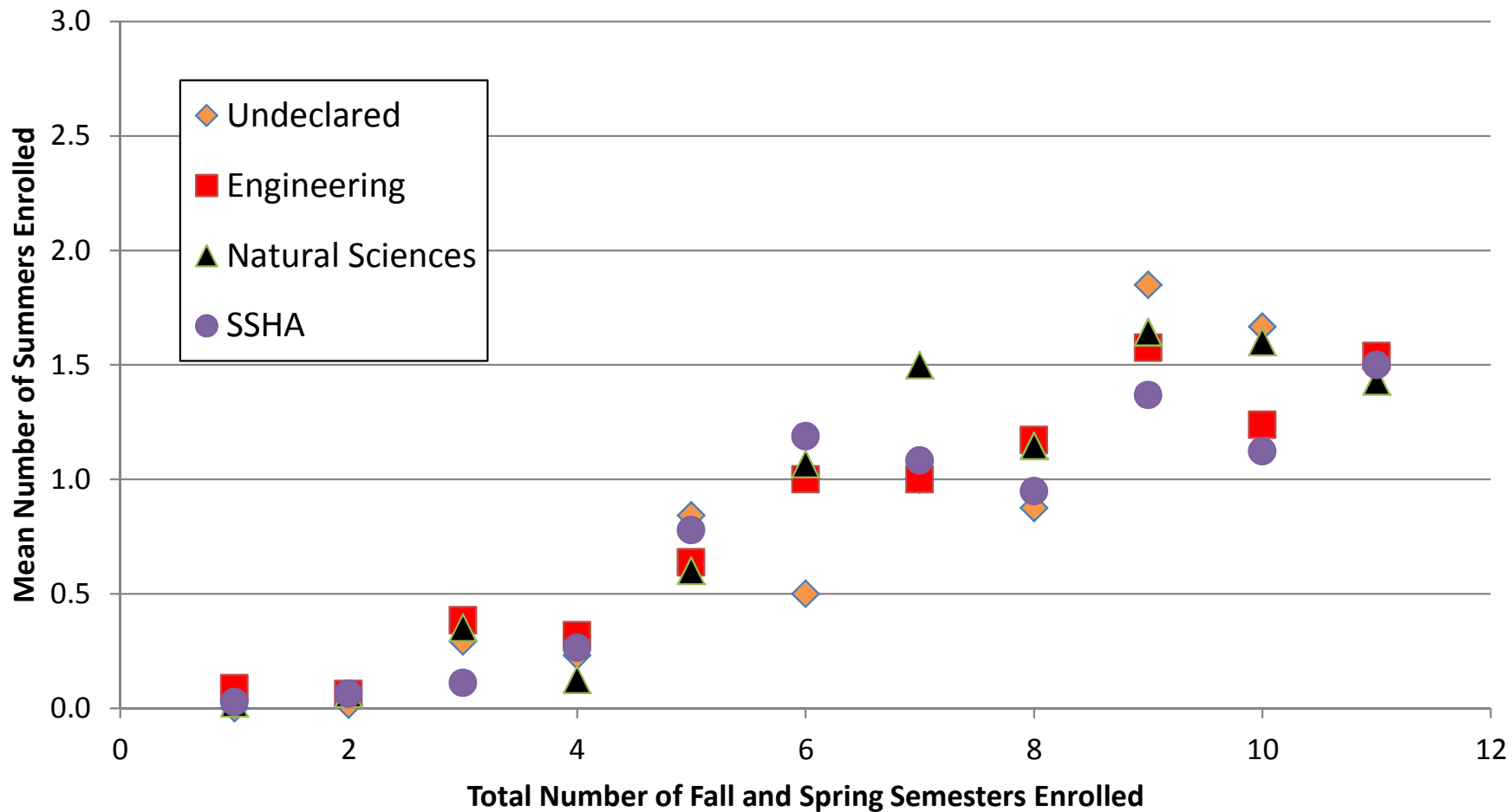


Figure 2a: Relationship between Total Number of Fall and Spring Semesters and Summer Enrollments at UC Merced by School



Figures 1b: Relationship between Total Number of Fall and Spring Semesters at UC Merced and Summer Enrollments at Other Colleges (Freshmen Cohorts 2006-08)

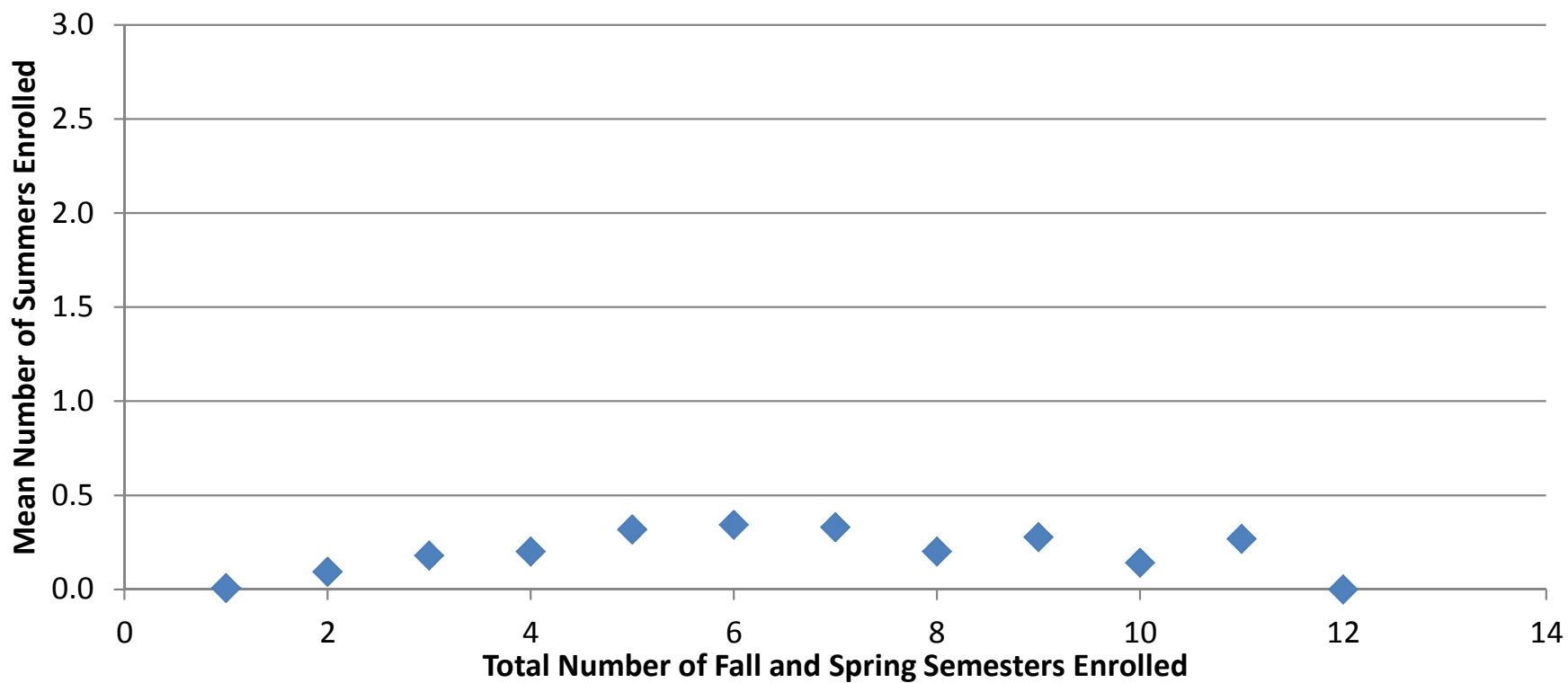


Figure 2b: Relationship between Total Number of Fall and Spring Semesters at UC Merced and Summer Enrollments At Other Colleges by School

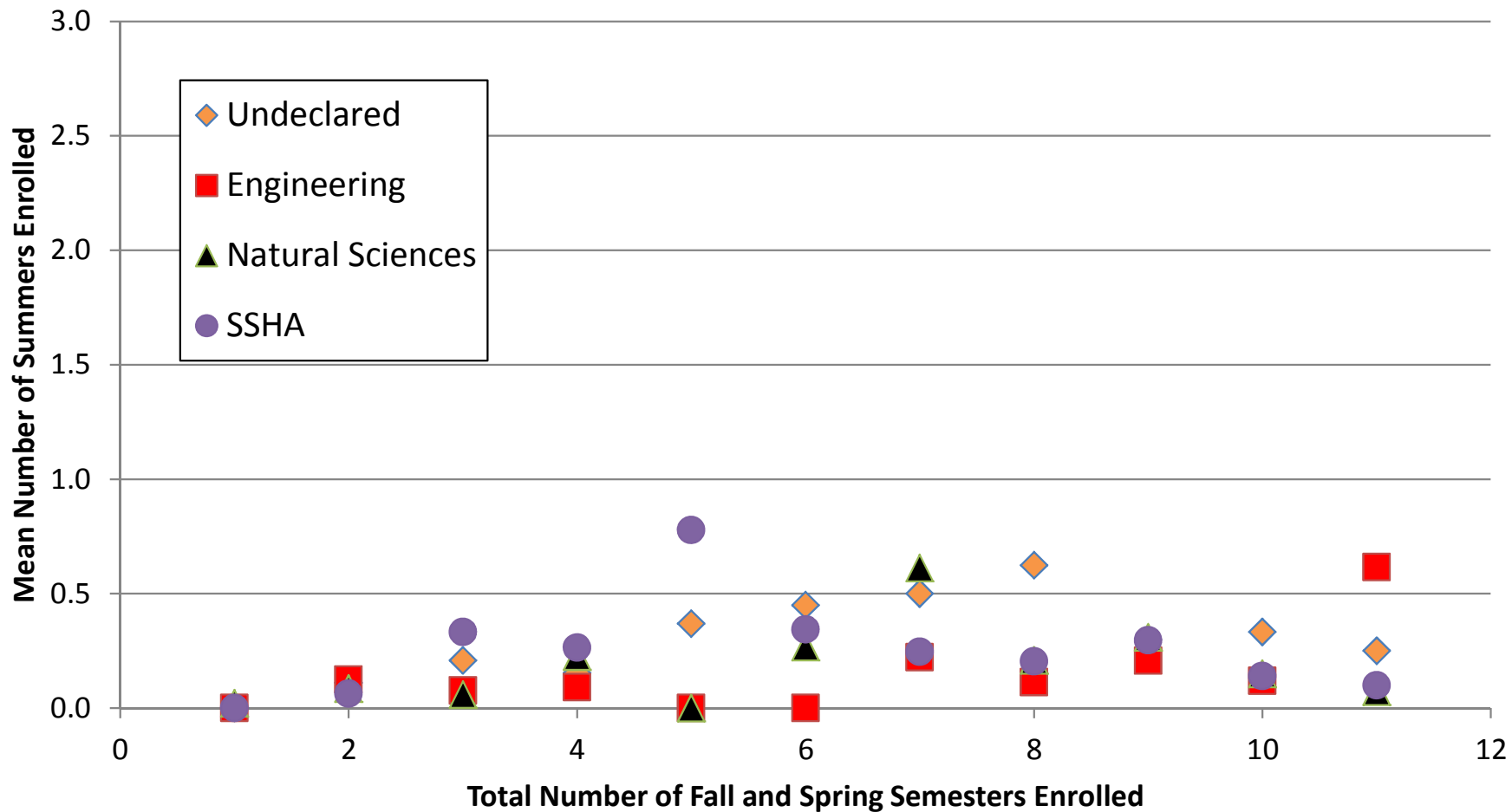


Table 3: Ranked NonUCM Providers of UC Merced Student Summer Instruction for Freshman Cohorts (2006, 2007, and 2008)

	%	#
Top 10		
Merced College	31%	88
UC-Berkeley	21%	59
San Joaquin Delta College	9.5%	27
UC-Los Angeles	9.2%	26
Chabot College	7.8%	22
UC-Davis	5.3%	15
UC-Irvine	4.6%	13
Pasadena City College	4.2%	12
Santa Monica College	3.9%	11
Sacramento City College-Los Rios CC District	3.5%	10
Less than 2%		
Allan Hancock College		Los Angeles Valley College
American River College of Los Rios CC District		Los Medanos College
Anelope Valley College		Loyola Marymount University
Bakersfield College		Mission College
California State U Channel Islands		Modesto Junior College
California State U Fullerton		Moorpark College
California State U San Bernardino		Mount San Antonio College
Canada College		Ohlone College
Cerritos College		Orange Coast College
Chaffey Community College		Oregon State University
City College of San Francisco		Oxnard College
College of Marin		Reedley College
College of San Mateo		Riverside Community College
College of the Canyons		Saddleback College
College of the Sequoias		San Diego Mesa College
Consumnes River College of Los Rios CC District		San Diego Miramar College
Contra Costa College		San Francisco State University
De Anza College		San Jose City College
Diablo Valley College		Santa Ana College
East Los Angeles College		Shasta College
El Camino College		Sierra College
Evergreen Valley College		Skyline College
Feather River Community College		Solano Community College
Foothill College		Southwestern College
Fresno City College		U of Texas-Pan American
Fullerton College		UC-San Diego
Glendale Community College		UC-Santa Barbara
Golden West College		Ventura College
Humboldt State University		Victor Valley College
Irvine Valley College		Webster University
Las Positas College		West Hills Community College
Long Beach City College		West Los Angeles College
Los Angeles City College		West Valley College
Los Angeles Pierce College		Yuba Community College
Los Angeles Southwest College		

Note that the counts are times that UCM students enrolled in a summer session and subsequently continued at UC Merced. Students transferring out are not included.

Table 4: Likelihood of Graduating Based and Summer Sessions at UCM, Another College, or Both (Freshman Cohorts 2006, 2007, and 2008)

	Took No Summer Sessions	Took Summer Sessions Only at UCM	Took Summer Sessions Only at Another College	Took Summer Sessions at UCM and Another College	Total	Chi Square Probability
Four-Year Graduation						
		Percentages				
Yes	23%	37%	25%	36%	30%	<.0001
No	77%	63%	75%	64%	70%	
		Counts				
Yes	191	315	28	68	602	
No	644	539	85	119	1,387	
	835	854	113	187	1,989	
Six-Year Graduation						
		Percentages				
Yes	32%	55%	34%	47%	43%	<.0001
No	68%	45%	66%	53%	57%	
		Counts				
Yes	264	467	38	87	856	
No	571	387	75	100	1,133	
	835	854	113	187	1,989	

Figure 3a: Likelihood of Graduating in Four Years by Number of Summer Sessions at UC Merced

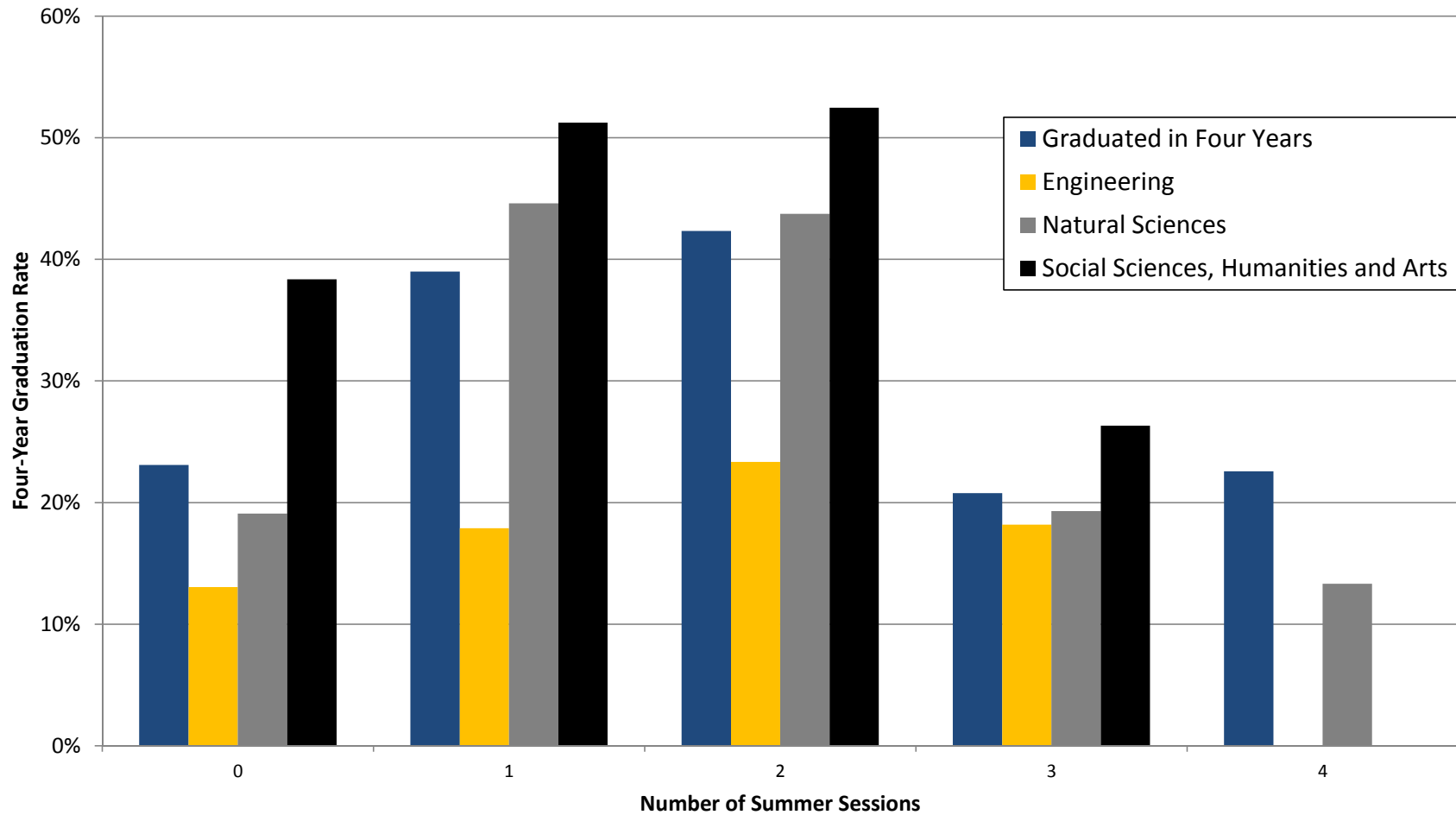


Figure 3b: Likelihood of Graduating in Four Years by Number of Summer Sessions at Other Colleges

