Appendix VIII

Estimates and Standard Errors

TABLE S.1	Four-Year College & University Mathematics & Statistics Departments			Two Year College Mathematics Programs
		2015 by Dept		
	2015	Math	Stat	2015
Mathematics	2213	2213	--	1639
SE	*139.7*	*139.7*	*--*	*124.3*
Statistics	457	313	144	280
SE	*24.8*	*24.2*	*4.0*	*59.6*
Computer Science	68	68	--	1918
SE	*11.0*	*11.0*	*--*	*--*
Total	10546			6216
SE	*161.2*	*157.4*	*4.0*	*114.6*

TABLE S.2	Mathematics Departments		Statistics Departments		Two-Year College Mathematics Programs	
Course level	2015	*SE*	2015	*SE*	2015	*SE*
Mathematics courses						
Precollege level	253	*26.0*	--	--	782	*65.0*
Introductory level (including Precalculus)	1000	*80.0*	--	--	445	*39.0*
Calculus level	807	*62.0*	--	--	152	*15.0*
Advanced level	154	*12.0*	--	--	0	*0.0*
Other (2-year)	--	*--*	--	--	259	*31.0*
Total Mathematics courses	2213	*140.0*	--	--	1639	*124.0*
Probability and Statistics courses						
Introductory level	253	*20.0*	94	*3.0*	280	*60.0*
Upper level	60	*6.0*	50	*2.0*	0	*0.0*
Total Probability and Statistics courses	313	*24.0*	144	*4.0*	280	*60.0*
Computer Science courses						
Lower level	45	*7.0*	--	--	--	
Middle level	16	*3.0*	--	--	--	
Upper level	6	*2.0*	--	--	--	
Total Computer Science courses	68	*11.0*	--	--	--	
Grand Total	2594	*157.0*	144	*4.0*	1918	*115.0*

TABLE S.3		
Major	2014-15	*SE*
Mathematics (except as reported below)	12794	*1524.6*
Mathematics Education	2880	*339.3*
Statistics (except Actuarial Science)	1509	*97.8*
Actuarial Mathematics	2354	*427.9*
All Joint Majors (combined)	1821	*330.7*
Other (includes Operations Research prior to 2010)	907	*147.9*
Total Mathematics, Statistics & Joint degrees	22266	*2008.4*
Number of women	9643	*978.0*
Computer Science degrees	3968	*998.8*
Number of women	1302	*495.2*
Total degrees	26234	*2586.7*
Number of women	10946	*1313.8*

TABLE S.4	Percentage of sections taught by					
Four-Year Colleges & Universities	Tenured/ tenure-eligible %	Other full-time %	Part-time %	Graduate teaching assistants %	Unknown %	Total enrollment in 1000s
Mathematics Department courses						
Mathematics courses						
Precollege level 2015	nc	nc	nc	nc	nc	244
SE	*nc*	*nc*	*nc*	*nc*	*nc*	*25.7*
Introductory level 2015	nc	nc	nc	nc	nc	954
SE	*nc*	*nc*	*nc*	*nc*	*nc*	*74.4*
Calculus level 2015	52	24	10	7	7	790
SE	*2.2*	*1.6*	*1.5*	*1.0*	*1.6*	*60.7*
Upper level 2015	70				30	154
SE	*5.0*				*5.0*	*12.2*
Statistics courses						
Introductory level 2015	41	21	25	4	8	235
SE	*2.4*	*2.0*	*2.1*	*1.1*	*2.0*	*18.6*
Upper level 2015 sections	53				47	60
SE	*0.1*				*0.1*	*6.1*
Computer Science courses						
Lower level 2015	46	20	14	0	21	44
SE	*6.5*	*4.1*	*3.4*	*0.0*	*6.7*	*6.8*
Statistics Department Courses						
Introductory level 2015	14	25	10	31	20	90
SE	*1.4*	*1.6*	*1.0*	*2.3*	*2.5*	*2.92*
Upper level 2015	55				45	50
SE	*2.9*				*2.9*	*2.3*
Two-Year College Mathematics Programs	Full-time		Part-time			
All 2015 sections	64		36			1693
SE	*64.0*		*36.0*			*99.7*

TABLE S.5	Percentage of sections taught by						
Four-Year Colleges & Universities	Tenured/ tenure-eligible %	Other full-time %	Part-time %	Graduate teaching assistants %	Un-known %	Enroll-ment in 1000s	Average section size
Mainstream Calculus I							
Lecture with separate recitation	39	33	15	5	9	145	63
SE	*3.1*	*3.6*	*3.3*	*1.0*	*3.4*	*20.9*	*3.6*
Sections that meet as a class	57	18	10	8	7	108	27
SE	*3.6*	*2.8*	*1.7*	*2.5*	*2.2*	*13.4*	*0.7*
Other sections	26	38	15	21	0	2	22
SE	*9.4*	*17.2*	*12.5*	*16.2*	*0.0*	*1.8*	*11.5*
Course total 2015	50	24	12	7	8	255	40
SE	*2.6*	*2.4*	*1.7*	*1.8*	*1.7*	*22.9*	*2.0*
Mainstream Calculus II							
Lecture with separate recitation	49	34	8	4	5	72	61
SE	*4.1*	*3.6*	*2.8*	*0.8*	*1.6*	*9.8*	*3.7*
Sections that meet as a class	56	22	6	7	9	52	26
SE	*4.6*	*2.9*	*1.4*	*2.1*	*3.4*	*7.7*	*1.6*
Other sections	58	17	0	25	0	1	23
SE	*32.4*	*13.0*	*0.0*	*19.4*	*0.0*	*0.9*	*9.8*
Course total 2015	54	26	7	6	7	125	39
SE	*3.3*	*2.4*	*1.3*	*1.5*	*2.1*	*10.7*	*1.9*
Total Mainstream Calculus I & II 2015	51	6	8	5	7	381	40
SE	*2.5*	*2.1*	*1.3*	*1.7*	*1.7*	*31.3*	*1.8*
Two-Year Colleges	Full-time %		Part-time %				
Mainstream Calculus I 2015	82		18			62	26
SE	*2.6*		*2.6*			*6.2*	*1.1*
Mainstream Calculus II 2015	88		12			32	26
SE	*2.8*		*2.8*			*3.6*	*1.3*
Total Mainstream Calculus I & II 2015	84		16			94	26
SE	*2.1*		*2.1*			*9.5*	*1.1*

TABLE S.6	Percentage of sections taught by						
Four-Year Colleges & Universities	Tenured/ tenure-eligible %	Other full-time %	Part-time %	Graduate teaching assistants %	Un-known %	Enroll-ment in 1000s	Average section size
Non-Mainstream Calculus I							
Lecture with separate recitation	29	47	17	2	6	30	84
SE	*4.9*	*5.9*	*4.4*	*0.6*	*3.0*	*6.9*	*12.4*
Sections that meet as a class							
SE	*3.7*	*4.1*	*4.6*	*3.6*	*3.0*	*7.3*	*1.4*
Other sections							
SE	*0.0*	*34.3*	*0.0*	*34.3*	*0.0*	*0.7*	*37.3*
Course total 2015	28	29	19	17	7	91	42
SE	*3.0*	*3.7*	*3.9*	*2.7*	*2.5*	*10.5*	*1.9*
Non-Mainstream Calculus II, III, etc. [3]							
Course total 2015	32	19	36	6	7	16	37
SE	*8.2*	*4.7*	*13.0*	*3.1*	*5.3*	*4.3*	*3.2*
Total Non-Mnstrm Calculus I & II, III, etc.	29	27	22	15	7	106	42
SE	*3.2*	*3.5*	*5.1*	*2.5*	*2.3*	*13.2*	*2.0*
Two-Year Colleges	Full-time %		Part-time %				
Non-Mainstream Calculus I	71		29			23	26
(2005, 2010)	(73,75)		(27,25)			(20,19)	(23,21)
SE	*10.2*		*10.2*			*6.4*	*1.4*
Non-Mainstream Calculus II	100		0			0	26
SE						*0.06*	
Total Non-Mnstrm Calculus I & II	71		29			23	26
SE	*10.2*		*10.2*			*6.4*	*1.4*

TABLE S.7	Percentage of sections taught by						
Four-Year Colleges & Universities Mathematics Departments	Tenured/ tenure-eligible %	Other full-time %	Part-time %	Graduate teaching assistants %	Un-known %	Enroll-ment in 1000s	Average section size
Introductory Statistics (F1) (no calculus prerequisite)							
Lecture with separate recitation	41	28	14	1	16	42	47
SE	*6.0*	*4.0*	*3.8*	*0.3*	*6.0*	*6.4*	*5.5*
Sections that meet as a class	38	22	28	4	8	146	29
SE	*2.7*	*2.5*	*2.4*	*1.4*	*2.1*	*14.3*	*1.3*
Other sections	29	63	9	0	0	0	9
SE	*19.8*	*27.5*	*8.6*	*0.0*	*0.0*	*0.2*	*5.7*
Course total (F1)	38	23	26	4	9	188	32
SE	*2.6*	*2.1*	*2.2*	*1.2*	*2.4*	*15.1*	*1.1*
Introductory Statistics (F2) (calculus prerequisite) (not for majors)							
Lecture with separate recitation	56	8	33	2	2	10	46
SE	*16.3*	*4.8*	*19.2*	*1.4*	*2.0*	*2.9*	*8.5*
Sections that meet as a class	64	13	15	3	5	24	29
SE	*5.7*	*4.7*	*4.7*	*2.1*	*3.4*	*5.6*	*1.6*
Other sections	100	0	0	0	0	0	33
SE	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.3*	*2.3*
Course total (F2)	63	12	18	2	5	34	33
SE	*5.2*	*3.8*	*5.2*	*1.6*	*2.7*	*5.8*	*1.6*
Statistics for Pre-service Teachers (F3,F4)							
Course total (F3, F4)	39	10	11	42	0	1	16
SE	*14.2*	*8.3*	*7.5*	*18.3*	*0.0*	*0.4*	*5.8*
Other intoductory level Probability & Statistics courses (F5)							
Course total (F5)	33	22	34	0	10	11	33
SE	*9.8*	*11.3*	*8.7*	*0.0*	*6.7*	*2.8*	*3.1*
Total All Intro. Probability & Statistics courses	41	21	25	4	8	235	32
Course total (F1+F2+F3+F4+F5)							
SE	*2.4*	*2.0*	*2.1*	*1.1*	*2.0*	*18.6*	*0.9*
Two-Year Colleges	Full-time %		Part-time %				
Total All Introductory Probability and Statistics Courses	80		20			247	26
SE	*4.8*		*4.8*			*59.9*	*4.8*

TABLE S.8	Percentage of sections taught by						
Statistics Departments	Tenured/ tenure-eligible %	Other full-time %	Part-time %	Graduate teaching assistants %	Un-known %	Enroll-ment in 1000s	Average section size
Introductory Statistics (no calculus prerequisite) (E1)							
Lecture with separate recitation	6	20	7	36	31	40	60
SE	*1.0*	*1.7*	*1.1*	*4.1*	*3.9*	*1.8*	*3.7*
Sections that meet as a class	25	30	12	28	5	25	62
SE	*3.2*	*3.5*	*1.8*	*3.9*	*1.0*	*1.9*	*3.1*
Other sections	0	6	42	52	0	1	21
SE	*0.0*	*25.5*	*4.1*	*21.4*	*0.0*	*0.4*	*2.1*
Course total	13	23	10	33	21	66	59
SE	*1.5*	*1.6*	*1.1*	*2.7*	*2.6*	*2.1*	*2.4*
Introductory Statistics (calculus prerequisite) (for non-majors) (E2)							
Lecture with separate recitation	14	31	11	14	30	11	72
SE	*2.5*	*3.8*	*3.0*	*2.3*	*5.5*	*1.0*	*7.2*
Sections that meet as a class	34	34	7	22	2	7	59
SE	*3.9*	*3.7*	*0.8*	*2.8*	*1.1*	*0.9*	*7.7*
Other sections							
SE	*9.9*	*14.9*	*0.0*	*24.8*	*0.0*	*0.4*	*11.8*
Course total	20	33	8	24	15	20	60
SE	*2.5*	*2.3*	*1.5*	*3.1*	*3.3*	*1.4*	*4.1*
Statistics for Pre-service Teachers (E3,E4)							
Course total (E3, E4)	43	57	0	0	0	0	18
SE	*27.0*	*27.0*	*0.0*	*0.0*	*0.0*	*0.0*	*8.4*
Other intoductory level Probability & Statistics courses (E5)							
Course total (E5)	6	24	6	32	31	4	103
SE	*2.5*	*2.3*	*3.4*	*3.4*	*4.4*	*0.7*	*16.1*
Total All Intro. Probability & Statistics courses							
Course total (E1+E2+E3+E4+E5)	**14**	**25**	**10**	**31**	**20**	**90**	**60**
SE	***1.4***	***1.5***	***1.0***	***2.3***	***2.5***	***2.9***	***2.4***

TABLE S.9	Percentage of sections taught using			
Two-Year Colleges	Common Department exams %	Homework Management system %	Enrollment in 1000s	Average section size
Mainstream Calculus I	88	37	62	26
SE	*3.1*	*4.2*	*6.2*	*1.1*
Mainstream Calculus II	85	34	32	26
SE	*4.0*	*5.4*	*3.6*	*1.3*
Total Mainstream Calculus I & II	86	34	94	26
SE	*3.3*	*4.5*	*9.5*	*1.1*

TABLE S.10	Percentage of sections taught using			
Two-Year Colleges	Common Department exams %	Homework Management system %	Enrollment in 1000s	Average section size
Non-Mainstream Calculus I	9	66	23	26
SE	*4.0*	*13.1*	*6.4*	*1.4*
Non-Mainstream Calculus II	0	0	0	26
SE	*.*	*.*	*0.1*	*.*
Total Non-Mainstream Calculus I & II	9	66	23	26
SE	*4.0*	*13.1*	*6.4*	*1.4*

TABLE S.11	Percentage of sections taught using			
Two-Year Colleges	Common Department exams %	Homework Management system %	Enrollment in 1000s	Average section size
Elementary Statistics	39	55	221	25
SE	*14.1*	*12.0*	*54.7*	*5.0*

TABLE S.12 (A)	% of Math Depts.	*SE*	% of Stat Depts.	*SE*
Offer elementary statistics course with no calculus prerequisite	78	*3.9*	92	*2.0*
Number of different kinds of introductory statistics courses for non-majors:				
1	72	*5.4*	23	*2.8*
2	24	*5.2*	26	*2.8*
3	3	*0.9*	22	*2.6*
More than 3	1	*0.6*	30	*2.6*
Percentage of class sessions in which real data is used is:				
0-20%	28	*6.0*	15	*2.7*
21-40%	23	*4.3*	14	*2.2*
41-60%	19	*3.5*	15	*1.7*
61-80%	12	*3.4*	21	*2.9*
81-100%	19	*3.9*	35	*2.9*
Percentage of class sessions in which in-class demonstrations or problem solving activities take place is:				
0-20%	19	*3.6*	13	*2.3*
21-40%	22	*4.8*	23	*2.9*
41-60%	23	*2.9*	21	*2.6*
61-80%	17	*4.0*	5	*0.7*
81-100%	19	*3.2*	39	*2.9*
Majority of sections use the following kinds of technology:				
Graphing calculators	67	*4.7*	47	*3.2*
Statistical packages	48	*5.5*	68	*2.8*
Educational software	50	*4.8*	53	*3.2*
Applets	24	*4.2*	41	*3.2*
Spreadsheets	68	*4.6*	55	*3.2*
Web-based resources	50	*5.2*	68	*2.7*
Classroom response systems	6	*2.4*	50	*3.2*
Online textbooks	41	*5.1*	50	*3.2*
Online videos	31	*4.5*	35	*3.1*
Percentage of departments where the majority of sections require assessments beyond homework, exams, and quizzes	39	*4.9*	32	*3.1*

TABLE S.13	2015	*SE*
Four-Year Colleges & Universities		
Mathematics Departments		
Full-time faculty	22532	*312.5*
Part-time faculty	7682	*281.9*
Statistics Departments (PhD)		
Full-time faculty	1237	*47.8*
Part-time faculty	128	*19.8*
Two-Year College Mathematics Programs		
Full-time faculty	9800	*893.1*
Part-time faculty	17888	*1908.8*

TABLE S.14				
Four-Year Colleges and Universities	Fall 2015			
Mathematics Departments	Total	TTE	Other full-time	Postdoc
Full-time faculty	22532	15270	7261	1317
SE	*312.5*	*214.5*	*217.5*	*60.7*
Having doctoral degree	18743	14869	3874	1317
SE	*251.5*	*212.4*	*123.2*	*60.7*
Having other degree	3789	401	3387	
SE	*150.5*	*46.2*	*143.3*	
Statistics Departments				
Full-time faculty	1432	1031	401	116
SE	*51.4*	*39.1*	*22.3*	*14.8*
Having doctoral degree	1373	1031	342	116
SE	*53.3*	*39.1*	*21.5*	*14.8*
Having other degree	59	0	59	
SE	*7.6*	*0.0*	*7.6*	
Total Math & Stat Depts	23964	16302	7662	1433
SE	*316.7*	*218.0*	*218.6*	*62.5*
Two-Year College Mathematics	Total full-time faculty	Full-time permanent	Other full-time	
Full-time faculty	9800	8314	1487	
SE	*894.3*	*839.5*	*273.3*	
Grand Total	33764	24616	9149	1433

TABLE S.15

Four-Year Colleges and Universities	Fall 2015				
Mathematics Departments	Total	Tenured	Tenure-eligible	Other full-time	Postdoc
Full-time faculty	22532	11979	3291	7261	1317
SE	*312.5*	*180.1*	*79.1*	*217.5*	*60.7*
Number of women	6981	2688	1171	3122	288
SE	*118.4*	*69.9*	*42.9*	*86.2*	*18.5*
Statistics Departments					
Full-time faculty	1432	772	260	401	116
SE	*51.4*	*33.2*	*13.7*	*22.3*	*14.8*
Number of women	392	153	90	149	22
SE	*15.8*	*10.3*	*7.1*	*8.6*	*4.0*

	July 1, 2010 - June 30, 2015
Number of PhD's from US Math & Stat Depts	9121
Number of women among new PhDs	2854 (31%)

Two-Year College Mathematics Programs	Total full-time	Full-time age < 40
Full-time permanent faculty	8314	2045
SE	*839.5*	*292.1*
Number of women	4345	1107
SE	*574.2*	*175.3*

TABLE S.16

Four-Year College & University Mathematics Departments	Percentage of tenured/tenure-eligible faculty										Average age 2015
	<30	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>69	
	%	%	%	%	%	%	%	%	%	%	
Tenured men	0	1	4	7	9	10	9	10	6	6	54.9
SE	*0.0*	*0.0*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	
Tenured women	0	1	2	3	3	3	2	2	1	0	51.0
SE	*0.0*	*0.0*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.0*	*0.0*	
Tenure-eligible men	1	6	4	2	0	0	0	0	0	0	36.3
SE	*0.1*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	
Tenure-eligible women	1	3	2	1	0	0	0	0	0	0	37.0
SE	*0.0*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	
Total tenured & tenure-eligible faculty	2	10	12	13	12	14	11	12	7	6	
SE	*0.2*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.2*	*0.0*	

	Percentage of permanent full-time faculty								Average age 2015
Two-Year College Mathematics Program	<30	30-34	35-39	40-44	45-49	50-54	55-59	>59	
Full-time permanent faculty	4	6	14	14	18	16	13	15	47.7
SE	*1.2*	*1.0*	*2.6*	*1.7*	*1.9*	*1.9*	*1.6*	*1.2*	0.48

TABLE S.17

All Statistics Departments	Percentage of tenured/tenure-eligible faculty										Average age 2015
	<30	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>69	
	%	%	%	%	%	%	%	%	%	%	
Tenured men	0	1	5	7	7	8	9	9	7	7	55.3
SE	*0.3*	*1.0*	*1.8*	*2.0*	*2.5*	*2.6*	*2.3*	*2.5*	*1.9*	*1.7*	
Tenured women	0	1	2	3	3	2	1	1	1	0	47.9
SE	*0.0*	*0.9*	*1.3*	*1.4*	*1.6*	*1.8*	*1.4*	*1.6*	*1.2*	*0.6*	
Tenure-eligible men	3	8	4	3	0	0	0	0	0	0	34.6
SE	*1.1*	*1.9*	*1.8*	*1.2*	*0.5*	*0.4*	*0.4*	*0.3*	*0.0*	*0.0*	
Tenure-eligible women	1	5	2	0	0	0	0	0	0	0	34.5
SE	*0.9*	*1.7*	*1.3*	*1.0*	*0.7*	*0.6*	*0.6*	*0.3*	*0.2*	*0.0*	
Total tenured & tenure-eligible faculty	**4**	**15**	**13**	**13**	**11**	**10**	**10**	**10**	**7**	**7**	
SE	***0.5***	***1.1***	***1.0***	***1.0***	***0.9***	***0.9***	***0.9***	***1.0***	***0.8***	***0.8***	

TABLE S.18

Mathematics Departments	Asian %	Black, not Hispanic %	Mexican American/ Puerto Rican/ other Hispanic %	White, not Hispanic %	AIAN & NHPI %	Unknown %
Tenured Men	6	1	1	32	0	1
SE	*0.2*	*0.1*	*0.1*	*0.3*	*0.0*	*0.1*
Tenured Women	2	0	0	9	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Tenure-eligible men	2	0	0	7	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Tenure-eligible women	1	0	0	4	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Postdoctoral men	1	0	0	3	0	0
SE	*0.0*	*0.0*	*0.0*	*0.1*	*0.0*	*0.0*
Postdoctoral women	0	0	0	1	0	0
SE	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
Full-time men not included above	1	0	1	11	0	1
SE	*0.1*	*0.1*	*0.1*	*0.2*	*0.0*	*0.1*
Full-time women not included above	1	0	0	10	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Total full-time men	11	2	2	53	0	2
SE	*0.2*	*0.1*	*0.1*	*0.4*	*0.0*	*0.1*
Total full-time women	4	1	1	24	0	1
SE	*0.1*	*0.1*	*0.1*	*0.3*	*0.0*	*0.1*

TABLE S.19

All Statistics Departments	Asian %	Black, not Hispanic %	Mexican American/ Puerto Rican/ other Hispanic %	White, not Hispanic %	AIAN & NHPI %	Unknown %
Tenured Men	13	0	1	28	0	1
SE	*0.2*	*0.1*	*0.1*	*0.3*	*0.0*	*0.1*
Tenured Women	5	0	0	5	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Tenure-eligible men	5	0	0	6	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Tenure-eligible women	3	0	0	3	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Postdoctoral men	3	0	1	3	0	0
SE	*0.0*	*0.0*	*0.0*	*0.1*	*0.0*	*0.0*
Postdoctoral women	1	0	0	1	0	0
SE	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
Full-time men not included above	1	0	0	9	0	1
SE	*0.1*	*0.1*	*0.1*	*0.2*	*0.0*	*0.1*
Full-time women not included above	2	0	0	6	0	0
SE	*0.1*	*0.0*	*0.0*	*0.2*	*0.0*	*0.0*
Total full-time men	22	1	2	45	0	2
SE	*0.9*	*0.2*	*0.3*	*1.1*	*0.2*	*0.3*
Total full-time women	11	0	1	15	0	1
SE	*0.7*	*0.0*	*0.2*	*0.8*	*0.0*	*0.2*

TABLE S.20		
Four-Year College & University	2014-2015	Number of tenured/ tenure-eligible faculty 2015
Mathematics Departments		
Univ (PhD)	182	5594
SE	*6.8*	
Univ (MA)	128	2983
SE	*10.8*	
Coll (BA)	251	6693
SE	*14.0*	
Total deaths and retirements in all Mathematics Departments	561	15270
SE	*19.0*	
Doctoral Statistics Departments: Total deaths and retirements	29	869

TABLE SP.1	Percentage whose institutions have a certification program for:		
	K-5	6-8	Secondary (9-12)
Mathematics Departments			
Univ (PhD)	52	47	75
SE	*6.0*	*8.3*	*5.3*
Univ (MA)	63	64	92
SE	*10.2*	*9.0*	*4.8*
Coll (BA)	52	50	75
SE	*4.5*	*4.5*	*4.7*
Total Math Depts	53	51	77
SE	*3.5*	*3.5*	*3.5*

TABLE SP.2	Percentage of TYCs with an organized program in which students can complete their entire mathematics course or licensure requirements	
	Estimate	*SE*
Pre-service elementary teachers	28	*5.3*
Pre-service middle school teachers	14	*3.0*
Pre-service secondary teachers	7	*2.6*
In-service elementary teachers	12	*3.6*
In-service middle school teachers	6	*2.5*
In-service secondary teachers	4	*1.9*
Career-switchers aiming for elementary teaching	16	*3.6*
Career-switchers aiming for middle school teaching	13	*3.5*
Career-switchers aiming for secondary teaching	5	*1.8*

TABLE SP.3	Percentage of TYCs	*SE*
Assign a mathematics faculty member to coordinate K–8 teacher education in mathematics	35	*6.3*
Offer a special mathematics course for preservice K–8 teachers	55	*5.3*
Offer a special mathematics course for preservice secondary teachers	19	*3.2*
Offer mathematics pedagogy courses in the mathematics department	9	*4.8*
Offer mathematics pedagogy courses outside of the mathematics department	6	*2.4*

TABLE SP.4	Percentage of departments with K-5 certification programs that require various numbers of mathematics courses for certification							
Number of semester hours in mathematics department required for K-5 certification	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	Coll (BA) %	*SE*	All Math %	*SE*
0 required	8	*3.0*	0	*0.0*	2	*0.9*	2	*0.8*
1-3 required	9	*5.7*	0	*0.0*	6	*4.7*	6	*3.4*
4-6 required	20	*7.7*	37	*7.6*	19	*6.0*	22	*4.7*
7-9 required	22	*7.1*	26	*10.2*	23	*8.5*	23	*6.2*
10-12 required	17	*3.4*	13	*9.0*	11	*5.2*	12	*3.9*
More than 12 required	24	*4.7*	24	*7.4*	38	*9.3*	34	*6.7*
Number of semester hours in fundamental ideas of mathematics required for K-5 certification	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	Coll (BA) %	*SE*	All Math %	*SE*
0 required	12	*2.0*	5	*5.0*	17	*6.5*	14	*4.5*
1-3 required	6	*3.8*	3	*2.2*	10	*5.5*	8	*3.9*
4-6 required	41	*8.0*	40	*6.9*	46	*9.6*	45	*6.8*
7-9 required	16	*5.1*	21	*10.0*	11	*6.5*	13	*4.9*
10-12 required	11	*5.3*	16	*9.3*	1	*0.7*	5	*1.6*
More than 12 required	14	*6.8*	15	*5.8*	15	*5.9*	15	*4.3*

TABLE SP.5	Percentage of departments with grade 6-8 certification programs that require various numbers of mathematics courses for certification							
Number of semester hours in mathematics department required for 6-8 certification	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	Coll (BA) %	*SE*	All Math %	*SE*
0 required	4	*1.3*	0	*0.0*	1	*0.7*	1	*0.5*
1-3 required	0	*0.0*	0	*0.0*	0	*0.0*	0	*0.0*
4-6 required	14	*5.7*	10	*5.1*	4	*2.9*	7	*2.4*
7-9 required	5	*4.0*	3	*2.0*	2	*1.1*	3	*1.0*
10-12 required	6	*4.4*	10	*5.9*	5	*3.2*	6	*2.5*
More than 12 required	71	*9.1*	77	*3.3*	87	*4.2*	83	*3.2*
Number of semester hours in fundamental ideas of mathematics required for 6-8 certification	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	Coll (BA) %	*SE*	All Math %	*SE*
0 required	15	*5.8*	10	*5.1*	15	*6.6*	14	*4.6*
1-3 required	4	*3.1*	.	.	11	*6.0*	8	*4.1*
4-6 required	28	*9.0*	19	*7.3*	26	*7.6*	25	*5.4*
7-9 required	25	*14.5*	16	*8.0*	17	*6.1*	18	*4.7*
10-12 required	15	*5.1*	10	*5.5*	4	*1.9*	7	*1.9*
More than 12 required	13	*8.3*	45	*8.7*	28	*7.9*	29	*5.6*

TABLE SP.6	Percentage of departments with secondary certification program where:											
	Course is required				Course is generally taken, but not required				Math dept offers special course in the subject for secondary pre-service teachers			
Course	Univ (Ph.D) %	Univ (MA) %	Coll (BA) %	All math %	Univ (Ph.D) %	Univ (MA) %	Coll (BA) %	All math %	Univ (Ph.D) %	Univ (MA) %	Coll (BA) %	All math %
Advanced Calculus/ Analysis	69	64	49	54	13	13	16	15	9	3	10	8
SE	*8.8*	*6.5*	*7.6*	*5.9*	*5.3*	*6.5*	*5.2*	*3.9*	*4.5*	*2.0*	*4.8*	*3.5*
Modern Algebra	72	89	81	81	9	12	14	13	23	4	2	6
SE	*4.0*	*6.4*	*4.2*	*3.2*	*3.9*	*6.5*	*4.5*	*3.4*	*5.9*	*2.2*	*0.9*	*1.3*
Number Theory	25	37	11	17	26	24	24	24	7	.	9	7
SE	*8.1*	*7.5*	*3.5*	*3.2*	*6.2*	*5.5*	*5.8*	*4.2*	*2.5*	*.*	*4.7*	*3.2*
Geometry	85	89	90	89	18	7	10	11	53	5	13	18
SE	*3.2*	*3.8*	*4.2*	*3.0*	*7.9*	*3.8*	*4.3*	*3.2*	*9.8*	*4.2*	*4.6*	*3.9*
Discrete Mathematics	56	52	62	60	8	9	16	14	12	5	4	5
SE	*7.3*	*10.5*	*6.7*	*5.1*	*5.2*	*5.1*	*4.1*	*3.0*	*5.4*	*4.1*	*1.6*	*1.6*
Statistics	66	88	85	83	23	7	12	13	4	8	3	4
SE	*2.9*	*5.6*	*4.2*	*3.1*	*10.3*	*3.7*	*3.9*	*3.0*	*2.9*	*5.0*	*1.3*	*1.3*
Probability	62	68	50	55	15	2	18	15	6	9	6	7
SE	*6.6*	*8.1*	*7.9*	*5.3*	*6.0*	*1.5*	*5.1*	*3.6*	*2.8*	*5.3*	*4.5*	*3.2*
History of Math	60	77	39	48	16	7	17	16	39	5	11	15
SE	*6.1*	*8.7*	*6.4*	*4.7*	*6.6*	*3.9*	*4.2*	*3.1*	*9.6*	*3.8*	*4.5*	*3.8*

TABLE SP.7	Percentage of departments with secondary certification program where:								
	Course is required			Course is generally taken, but not required			Math dept offers special course in the subject for secondary pre-service teachers		
Course	Univ (Ph.D) %	Univ (MA) %	All math %	Univ (Ph.D) %	Univ (MA) %	All math %	Univ (Ph.D) %	Univ (MA) %	All math %
Introductory Statistics	36	57	41	36	0	27	17	29	20
SE	*3.5*	*9.7*	*3.6*	*4.9*	*0.0*	*4.0*	*3.2*	*7.6*	*3.0*
Probability	24	33	26	13	14	13	8	14	9
SE	*3.0*	*10.5*	*3.2*	*2.5*	*7.2*	*2.5*	*1.4*	*7.2*	*2.0*
Probability and/or statistics with calculus prerequisite	36	67	42	4	14	7	12	0	9
SE	*3.5*	*8.9*	*3.6*	*1.1*	*7.2*	*2.0*	*1.5*	*0.0*	*1.1*
Upper level statistics course	12	17	13	9	43	18	8	0	6
SE	*2.1*	*8.5*	*2.4*	*2.3*	*9.7*	*3.1*	*1.4*	*0.0*	*1.1*
Applied statistics course	12	17	13	9	29	14	4	0	3
SE	*2.5*	*8.5*	*2.6*	*2.4*	*9.1*	*3.0*	*1.0*	*0.0*	0.7
Other	5	0	4	5	0	4	4	0	4
SE	*1.3*	*0.0*	*1.0*	*1.2*	*0.0*	*1.0*	*1.1*	*0.0*	*0.9*
Number of semester hours required for K-5 grade teachers (%)									
None	85	50	73						
SE	*2.7*	*8.9*	*3.4*						
1-3 hours	0	0	0						
SE	*0.0*	*0.0*	*0.0*						
4-6 hours	11	50	23						
SE	*2.7*	*8.9*	*3.4*						
More than 6 hours	5	0	3						
SE	*0.3*	*0.0*	*0.2*						
Number of semester hours required for 6-8 grade teachers									
None	49	25	42						
SE	*4.3*	*8.1*	*3.9*						
1-3 hours	33	63	42						
SE	*3.8*	*8.9*	*3.8*						
4-6 hours	9	13	10						
SE	*2.4*	*6.3*	*2.5*						
More than 6 hours	9	0	6						
SE	1.2	0.0	0.8						

TABLE SP.8	Mathematics Depts				Statistics Depts			Two-Year Colleges
	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total	
Give credit for distance learning not taught by faculty in your institution:								
Yes	60	74	60	62	52	42	50	58
SE	*4.9*	*7.8*	*7.0*	*5.2*	*3.2*	*7.3*	*3.0*	*5.1*
No	40	26	40	38	48	58	50	42
SE	*4.9*	*7.8*	*7.0*	*5.2*	*3.2*	*7.3*	*3.0*	*5.1*
Set a limit on the number of credits earned in distance learning classes	33	33	37	36	34	18	31	1
SE	*4.7*	*7.9*	*5.0*	*3.7*	*3.3*	*5.9*	*2.9*	*0.5*
Percentage offering distance learning	63	73	45	52	69	50	64	87
SE	*4.2*	*5.1*	*6.9*	*5.2*	*3.3*	*7.4*	*3.1*	*4.1*
Format of majority of distance learning:								
Complete online	63	60	74	69	70	50	66	69
SE	*11.2*	*6.7*	*7.9*	*5.4*	*3.6*	*11.6*	*3.5*	*5.7*
Hybrid	36	33	21	26	18	50	23	22
SE	*11.2*	*8.7*	*7.6*	*5.3*	*2.9*	*11.6*	*3.1*	*4.98*
Other	1	7	5	5	13	.	10	8
SE	*0.3*	*4.1*	*2.2*	*1.5*	*2.8*	*.*	*2.3*	*4.0*
Instructional materials created by:								
Faculty	37	30	37	36	54	67	56	14
SE	*9.6*	*6.4*	*6.0*	*4.6*	*4.0*	*10.9*	*3.7*	*4.4*
Commercially produced materials	9	6	11	9	3	.	3	19
SE	*3.9*	*3.5*	*5.5*	*3.5*	*1.3*	*.*	*1.1*	*3.9*
Combination of both	55	65	52	55	43	33	41	67
SE	*8.8*	*7.0*	*7.5*	*5.2*	*3.9*	*10.9*	*3.7*	*5.2*
How distance learning students take majority of tests:								
Not at a monitored testing site	15	15	26	22	10	17	11	11
SE	*9.8*	*7.6*	*8.7*	*5.8*	*2.8*	*8.6*	*2.7*	*3.7*
Online, using monitoring technology	10	14	23	19	16	17	16	10
SE	*2.8*	*4.7*	*6.2*	*3.9*	*3.2*	*8.6*	*3.0*	*3.5*
At proctored testing site	49	34	34	37	32	50	35	47
SE	*8.4*	*5.5*	*8.7*	*5.9*	*3.9*	*11.6*	*3.7*	*5.2*
Combination of both	25	37	18	23	41	17	37	32
SE	*4.9*	*7.4*	*5.5*	*4.0*	*3.5*	*8.6*	*3.2*	*6.0*

TABLE SP.9		
Requirements of faculty whose entire teaching load is distance-learning courses regarding time required to be on campus to meet with students	% of TYCs	
	Estimate	*SE*
Never	5	*2.0*
Only for scheduled meeting or student appointment	12	*3.2*
A specified number of office hours per week	32	*6.7*
Not applicable or unreported	51	*8.1*

TABLE SP.10	Math				Stat			TYC
	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total	
Some courses in both non-distance and distance-learning formats	91	94	90	91	85	100	88	na
SE	*4.5*	*4.4*	*4.9*	*3.2*	*2.6*	*0.0*	*2.2*	*na*
Of those with courses in both formats, the percentage where:								
Instructors hold comparable office hours on campus	71	52	57	59	64	83	68	na
SE	*5.1*	*6.9*	*7.6*	*4.8*	*4.2*	*8.6*	*3.7*	*na*
Instructors participate in evaluation in same way	89	81	89	87	89	100	91	93
SE	*3.4*	*6.5*	*6.2*	*4.1*	*3.0*	*0.0*	*2.4*	*3.1*
Same use of common exams as in face-to-face	52	64	58	58	44	50	45	67
SE	*9.7*	*9.8*	*13.1*	*8.0*	*4.3*	*11.6*	*4.0*	*5.0*
Same course outlines as in face-to-face	94	91	95	94	85	100	88	97
SE	*3.6*	*5.4*	*3.3*	*2.4*	*3.5*	*0.0*	*2.9*	*2.6*
Same course projects as in face-to-face	85	73	78	79	62	100	69	77
SE	*5.3*	*9.0*	*8.7*	*5.5*	*4.1*	*0.0*	*3.5*	*4.5*
More course projects than in face-to-face	10	18	14	14	9	.	7	12
SE	*4.3*	*5.4*	*6.3*	*4.1*	*1.3*	.	*1.0*	*3.6*

TABLE SP.11.A	Mathematics Departments							
	Univ (PhD)	*SE*	Univ (MA)	*SE*	College (BA)	*SE*	Total	*SE*
E23. Introduction to Proofs	2	*1.8*	.	.	3	*2.2*	2	*1.6*
E24-1. Modern Algebra I	2	*1.8*	.	.	.	.	0	*0.3*
E24-2. Modern Algebra II								
E25. Number Theory								
E26. Combinatorics								
E27. Actuarial Mathematics								
E28. Logic/Foundations (not E23)								
E29. Discrete Structures	1	*0.2*	.	.	.	.	0	*0.0*
E30. History of Mathematics	4	*2.3*	.	.	1	*0.4*	1	*0.5*
E31. Geometry	2	*1.4*	.	.	.	.	0	*0.2*
E32-1. Advanced Calculus I and/or Real Analysis I	1	*0.2*	.	.	.	.	0	*0.0*
E32-2. Advanced Calculus II and/or Real Analysis II								
E33. Advanced Mathematics for Engineering and Physical Sciences								
E34. Advanced Linear Algebra (beyond E17, E19)	2	*1.4*	.	.	.	.	0	*0.2*
E35. Vector Analysis								
E36. Advanced Differential Equations (beyond E18)								
E37. Partial Differential Equations								
E38. Numerical Analysis I and II	.	.	3	*3.0*	.	.	0	*0.4*
E39. Applied Mathematics (Modeling)	.	.	4	*3.7*	.	.	1	*0.5*
E409. Complex Variables	.	.	4	*3.7*	1	*0.6*	1	*0.7*
E41. Topology	.	.	4	*3.7*	.	.	1	*0.5*
E42. Mathematics of Finance (not E26, E38)								
E43. Codes and Cryptology								
E44. Biomathematics								
E45. Operations Research (all courses)	.	.	.	.	0	*0.3*	0	*0.2*
E46. Senior Seminar/ Independent Study in Mathematics								
E47. Other advanced-level mathematics	.	.	7	*4.9*	0	*0.3*	1	*0.7*
E48. Mathematics for Secondary School Teachers	.	.	7	*4.9*	1	*0.6*	1	*0.8*

TABLE SP.11.B	Mathematics Departments				Statistics Departments		
	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total
E6. Introductory Probability and/or Statistics for Majors/Minors (no calculus prerequisite)	2	3	5	4	11	15	12
SE	*2.0*	*2.3*	*2.7*	*2.0*	*2.1*	*5.1*	*2.0*
E7. Combined Probability & Statistics (calculus prerequisite)	2	3	.	1	4	17	7
SE	*1.9*	*2.3*	*.*	*0.4*	*0.5*	*5.6*	*1.3*
E8. Probability (calculus prerequisite)	5	7	0	2	.	8	2
SE	*2.4*	*4.5*	*0.3*	*0.7*	*.*	*4.1*	*1.0*
E9. Mathematical Statistics (calculus prerequisite)	3	7	0	2	.	8	2
SE	*1.9*	*4.5*	*0.3*	*0.7*	*.*	*4.1*	*1.0*
E10. Stochastic Processes	.	3	.	0			
SE	*.*	*2.3*	*.*	*0.3*			
E11. Applied Statistical Analysis	2	3	.	1	6	8	7
SE	*1.9*	*2.3*	*.*	*0.4*	*1.1*	*4.1*	*1.3*
E12. Data Science/Analytics	2	6	.	1	3	8	4
SE	*1.9*	*3.9*	*.*	*0.6*	*1.6*	*4.1*	*1.5*
E13. Design & Analysis of Experiments	2	3	0	1	7	8	7
SE	*1.9*	*2.3*	*0.3*	*0.5*	*1.3*	*4.1*	*1.4*
E14. Regression (and Correlation)	2	3	.	1	2	.	2
SE	*1.9*	*2.3*	*.*	*0.4*	*1.0*	*.*	*0.8*
F15. Biostatistics	.	3	.	0	2	.	2
SE	*.*	*2.3*	*.*	*0.3*	*1.0*	*.*	*0.8*
E16. Nonparametric Statistics	.	3	.	0			
SE	*.*	*2.3*	*.*	*0.3*			
E17. Categorical Data Analysis	.	3	.	0			
SE	*.*	*2.3*	*.*	*0.3*			
E18. Sample Survey Design & Analysis	.	3	.	0	2	8	3
SE	*.*	*2.3*	*.*	*0.3*	*0.0*	*4.1*	*0.9*
E19. Statistical Computing and/or Software	2	3	.	1	4	8	5
SE	*1.9*	*2.3*	*.*	*0.4*	*1.1*	*4.1*	*1.3*
E20. Bayesian Statistics	na	na	na	na			
SE	*na*	*na*	*na*	*na*			
E21. Statistical Consulting	na	na	na	na	.	8	2
SE	*na*	*na*	*na*	*na*	*.*	*4.1*	1.0
E22. Senior Seminar/ Independent Studies	.	5	.	1			
SE	*.*	*2.3*	*.*	*0.3*			
E23. Other upper-level Probability & Statistics	2	5	0	1	2	15	6
SE	*1.9*	*2.3*	*0.3*	*0.5*	*1.0*	*5.1*	*1.5*
E24. Other mathematical science courses	na	na	na	na	.	8	2
SE	*na*	*na*	*na*	*na*	*.*	*4.1*	*1.0*

TABLE SP.12

Percentage with special opportunities for undergraduates	Honors sections of courses for majors %	Math or Stat club %	Special programs for women %	Special programs for minorities %	Math or Stat contests %	Special Math or Stat colloquia for undergrads &	Outreach in K–12 schools %
Mathematics Departments							
Univ (PhD)	69	94	41	25	91	77	61
SE	*5.2*	*3.0*	*9.4*	*4.4*	*6.3*	*6.6*	*7.3*
Univ (MA)	39	91	37	31	78	87	77
SE	*4.7*	*5.0*	*7.4*	*6.0*	*7.6*	*5.0*	*6.8*
Coll (BA)	28	56	16	8	64	53	43
SE	*5.7*	*4.6*	*3.8*	*3.4*	*4.2*	*6.4*	*5.6*
Total Mathematics Departments	35	67	22	14	70	61	50
SE	*4.4*	*3.0*	*3.2*	*2.7*	*3.3*	*4.7*	*4.2*
Statistics Departments							
Univ (PhD)	38	55	18	13	56	70	18
SE	*3.0*	*3.4*	*2.9*	*1.9*	*3.5*	*3.2*	*2.5*
Univ (MA)	50	18	.	8	45	42	42
SE	*7.4*	*6.1*	*.*	*4.1*	*7.8*	*7.3*	*7.3*
Total Statistics Depts	41	46	14	12	54	63	24
SE	*2.9*	*3.0*	*2.2*	*1.7*	*3.2*	*3.0*	*2.6*
Two-Year College Mathematics Programs	28	32	15	15	40	21	46
SE	*4.2*	*4.7*	*3.2*	*3.1*	*4.7*	*4.1*	*4.4*

TABLE SP.13

Percentage with additional opportunities for undergraduates	Undergrad. Research opportunity %	Indep. Studies opportunity %	Assigned advisors in dept. %	Senior thesis opportunity %	Math career day %	Graduate school advising %	Internship opportunity %	Senior seminar opportunity %	Consulting lab with clients %	Tutor, grade papers, or TA %
Mathematics Departments										
Univ (PhD)	94	90	88	73	46	67	69	50	89	21
SE	*3.0*	*6.3*	*3.6*	*5.8*	*6.4*	*9.2*	*7.6*	*6.2*	*2.0*	*7.5*
Univ (MA)	89	93	93	59	23	58	69	71	82	19
SE	*4.3*	*4.3*	*3.9*	*7.9*	*8.3*	*6.6*	*5.1*	*9.6*	*7.6*	*6.1*
Coll (BA)	72	85	85	52	21	51	61	61	82	15
SE	*5.0*	*4.0*	*3.4*	*5.1*	*3.6*	*6.7*	*5.4*	*3.4*	*4.1*	*3.6*
Total mathematics depts	77	87	86	56	25	55	63	60	83	17
SE	*3.8*	*3.0*	*2.5*	*3.7*	*2.8*	*5.0*	*4.3*	*2.8*	*3.2*	*2.9*
Statistics Departments										
Univ (PhD)	91	95	73	60	50	90	72	46	41	80
SE	*1.5*	*1.7*	*3.2*	*3.0*	*3.5*	*2.5*	*3.3*	*3.4*	*3.4*	*2.5*
Univ (MA)	69	92	83	42	27	50	69	27	54	62
SE	*6.6*	*4.1*	*5.6*	*7.3*	*7.0*	*7.4*	*6.6*	*7.0*	*7.1*	*6.9*
Total statistics depts	86	94	76	56	45	80	71	42	44	75
SE	*2.0*	*1.6*	*2.8*	*2.9*	*3.2*	*2.6*	*2.9*	*3.1*	*3.1*	*2.5*
Two-Year College Mathematics Programs	17	41	49	na	na	na	na	na	na	na
SE	*3.3*	*5.6*	*5.7*	*na*	*na*	*na*	*na*	*na*	*na*	*na*

TABLE SP.14

Activity	All Math Depts	PhD Math	MA Math	BA Math	All Stat Depts	PhD Stat	MA Stat
Undergraduate research project in the mathematical sciences	12168	2091	1733	8344	575	534	42
SE	*2479.8*	*228.3*	*333.0*	*2453.9*	*45.2*	*44.3*	*9.0*
Internship in mathematical sciences	6031	1198	766	4068	714	680	34
SE	*1751.4*	*170.5*	*246.0*	*1725.7*	*49.1*	*48.8*	*6.1*
Mathematical or statistical consulting to client	975	243	170	562	317	300	17
SE	*228.1*	*111.1*	*71.4*	*189.4*	*41.7*	*41.5*	*3.2*

TABLE SP.15

	Univ (PhD)	Univ (MA)	Coll (BA)	All departments
Offered course in:	Offered course %	Offered course %	Offered course %	Offered course %
Mathematics and finance or business	46	44	31	35
SE	*7.5*	*7.9*	*5.1*	*3.9*
Mathematics and biology	47	36	14	22
SE	*7.8*	*7.7*	*2.9*	*2.6*
Mathematics and the study of the environment	16	8	3	6
SE	*6.1*	*3.7*	*2.3*	*2.1*
Mathematics and engineering or the physical sciences	29	23	13	17
SE	*6.4*	*6.4*	*3.4*	*2.8*
Mathematics and economics	15	11	9	10
SE	*4.2*	*4.4*	*3.4*	*2.5*
Mathematics and social sciences other than economics	5	16	7	8
SE	*2.9*	*7.1*	*2.9*	*2.4*
Mathematics and education	33	59	40	41
SE	*4.2*	*6.2*	*5.7*	*4.3*
Mathematics and the humanities	8	9	14	13
SE	*2.3*	*5.3*	*5.0*	*3.6*
Mathematics and computer science	27	41	30	31
SE	*7.3*	*6.4*	*6.2*	*4.7*
Other	10	6	10	10
SE	*3.2*	*4.3*	*3.2*	*2.4*

TABLE SP.16

	Four-year Mathematics			Two-year Mathematics			Four-year Statistics		
Percentage of departments with dual-enrollment courses	26%			63%			12%		
SE	*4.11%*			*6.4%*			*1.82%*		
Number of dual enrollments in:	Dual Enrollments		Other enrollments	Dual enrollments		Other enrollments	Dual enrollments		Other enrollments
	spring 2015	fall 2015	fall 2015	spring 2015	fall 2015	fall 2015	spring 2015	fall 2015	fall 2015
College algebra	15534	30310	255416	32937	57523	292138	na	na	na
SE	*3774.3*	*8361.6*	*24928.3*	*12324.8*	*17454.3*	*33948.2*	*na*	*na*	*na*
Precalculus	15090	15702	122302	18869	13178	87014	na	na	na
SE	*5182.9*	*7081.6*	*9220.1*	*4294.1*	*3275.3*	*12416.7*	*na*	*na*	*na*
Calculus I	6329	14480	344988	4596	6358	91993	na	na	na
SE	*1643.4*	*4588.6*	*30415.6*	*1185.9*	*1642.9*	*10919.6*	*na*	*na*	*na*
Statistics	3866	3292	226441	11919	7064	251279	299	1179	89756
SE	*1036.6*	*1079.5*	*18794.8*	*3406.8*	*1811.0*	*56864.2*	*45.3*	*354.1*	*2858.8*
Other	8016	4780	na	8478	10046	na	na	na	na
SE	*3362.7*	*1043.2*	*na*	*2821.9*	*3871.5*	*na*	*na*	*na*	*na*
Departmental teaching evaluations required in dual-enrollment courses			34%			72%			26%
SE			*7.2%*			*4.7%*			*5.3%*

TABLE SP.17	Four-year Mathematics Departments	Two-year Mathematics Departments	Statistics Departments
Assign their own members to teach dual-enrollment courses	6	44	
SE	*1.8*	*6.5*	
Number of students enrolled	4014	*	0
SE	*1648.6*	*10577.2*	*0.0*

TABLE SP.18

Mathematics Department Requirements	Required in all majors			Required in some but not all majors			Not required in any major		
	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %	College (BA) %
Modern Algebra I	34	34	54	40	62	27	26	4	19
SE	*7.3*	*5.7*	*8.5*	*8.4*	*6.1*	*7.2*	*5.5*	*3.5*	*4.9*
Real Analysis I	31	49	36	49	45	23	20	6	41
SE	*7.2*	*10.7*	*5.9*	*6.5*	*10.2*	*5.4*	*8.5*	*4.0*	*6.4*
Modern Algebra I or Real Analysis I (major may choose either to fulfill this requirement)	21	33	24	23	27	14	56	40	62
SE	*5.8*	*8.6*	*5.0*	*5.8*	*10.5*	*4.9*	*5.5*	*9.7*	*7.8*
A one-year upper-level sequence	48	26	28	19	43	6	33	31	66
SE	*8.1*	*10.7*	*5.0*	*5.8*	*14.0*	*2.5*	*5.8*	*7.7*	*5.9*
At least one computer science course	55	67	69	19	13	6	26	20	25
SE	*6.5*	*6.2*	*7.0*	*4.3*	*4.4*	*3.1*	*4.5*	*7.6*	*5.9*
At least one statistics course	31	46	59	37	47	8	32	8	34
SE	*6.8*	*8.0*	*5.4*	*8.3*	*7.6*	*2.3*	*8.3*	*4.1*	*5.0*
At least one applied mathematics course beyond course E21	32	36	43	47	40	16	21	24	41
SE	*7.9*	*6.8*	*4.9*	*6.9*	*6.3*	*4.3*	*4.2*	*6.6*	*5.9*
A capstone experience (senior project, thesis, seminar, internship)	32	68	76	27	17	5	41	15	19
SE	*7.8*	*8.0*	*4.5*	*4.2*	*6.6*	*1.8*	*6.7*	*6.5*	*4.4*
An exit exam (written or oral)	3	10	31	3	15	2	94	75	67
SE	*2.2*	*4.7*	*5.8*	*2.0*	*5.1*	*0.9*	*2.9*	*5.7*	*5.9*

TABLE SP.19 A	Required in all majors			Required in some but not all majors			Not required in any major		
Percentage of statistics departments that require:	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %	College (BA) %
(a) Calculus I	100	100	91	.	.	9			
SE	*0.0*	*0.0*	*8.4*	.	.	*8.4*			
(b) Calculus II	100	100	83	.	.	17			
SE	*0.0*	*0.0*	*12.2*	.	.	*12.2*			
(c) Multivariable Calculus	100	100	67	.	.	17	.	.	16
SE	*0.0*	*0.0*	*21.6*	.	.	*12.2*	.	.	*17.2*
(d) Linear algebra/Matrix theory	92	100	83	6	.	17	2	.	.
SE	*6.1*	*0.0*	*12.2*	*5.9*	.	*12.2*	*0.7*	.	.
(e) At least one Computer Science course	60	85	67	8	7	33	32	7	.
SE	*9.0*	*11.5*	*21.6*	*8.1*	*7.7*	*21.6*	*8.7*	*7.6*	.
(f) At least one applied mathematics course, not incl. (a), (b), (c), (d)	42	47	.	8	.	16	49	53	84
SE	*12.6*	*8.7*	.	*8.1*	.	*17.2*	*12.4*	*8.7*	*17.2*
(g) A capstone experience (e.g., a senior thesis or project, seminar, or internship)	16	100	83	18	.	.	66	.	17
SE	*7.7*	*0.0*	*12.2*	*8.1*	.	.	*12.8*	.	*12.2*
(h) An exit exam (oral or written)	.	.	9	8	.	.	92	100	91
SE	.	.	*8.4*	*7.1*	.	.	*7.1*	*0.0*	*8.4*
(i) One Probability Course	100	75	83	.	7	9	.	18	9
SE	*0.0*	*30.0*	*16.8*	.	*7.7*	*8.4*	.	*25.1*	*8.4*
(j) One Mathematical Statistics Course	100	85	50	.	15	17	.	.	33
SE	*0.0*	*11.5*	*26.4*	.	*11.5*	*12.2*	.	.	*32.4*
(k) One applied statistics course	74	85	75	8	15	25	18	.	.
SE	*9.8*	*11.5*	*19.1*	*7.1*	*11.5*	*19.1*	*10.7*	.	.
(l) One Linear Models Course	29	43	67	8	57	9	62	.	25
SE	*14.5*	*24.1*	*21.6*	*7.1*	*24.1*	*8.6*	*14.2*	.	*19.1*
(m) One Bayesian Inference Course	7	19	.	8	8	25	84	73	75
SE	*6.4*	*15.3*	.	*7.1*	*9.0*	*19.9*	*9.3*	*11.6*	*19.9*

TABLE SP.19.B	Required in all majors		Required in some but not all majors		Not required in any major	
Percentage of statistics departments that require:	Univ (PhD) %	Univ (MA) %	Univ (PhD) %	Univ (MA) %	Univ (PhD) %	Univ (MA) %
(a) Calculus I	97	83	3	17		
SE	*1.8*	*8.6*	*1.8*	*8.6*		
(b) Calculus II	97	83	3	17		
SE	*1.8*	*8.6*	*1.8*	*8.6*		
(c) Multivariable Calculus	88	50	5	33	8	17
SE	*2.1*	*11.6*	*0.8*	*10.9*	*1.9*	*8.6*
(d) Linear algebra/Matrix theory	86	50	11	33	3	17
SE	*2.6*	*11.6*	*2.4*	*10.9*	*1.1*	*8.6*
(e) At least one Computer Science course	86	67	6	17	7	17
SE	*2.8*	*10.9*	*2.4*	*8.6*	*1.6*	*8.6*
(f) At least one applied mathematics course, not incl. (a), (b), (c), (d)	23	33	28	.	49	67
SE	*2.7*	*10.9*	*3.4*	*.*	*3.6*	*10.9*
(g) A capstone experience (e.g., a senior thesis or project, seminar, or internship)	4	9	3	9	3	11
SE	*35.0*	*17.0*	*14.0*	*17.0*	*51.0*	*67.0*
(h) An exit exam (oral or written)	2	.	6	17	92	83
SE	*0.6*	*.*	*2.1*	*8.6*	*2.2*	*8.6*
(i) One Probability Course	75	50	11	17	13	33
SE	*3.4*	*11.6*	*2.7*	*8.6*	*2.5*	*10.9*
(j) One Mathematical Statistics Course	89	33	8	33	3	33
SE	*2.4*	*10.9*	*2.1*	*10.9*	*1.1*	*10.9*
(k) One applied statistics course	79	50	19	50	2	.
SE	*3.1*	*11.6*	*3.0*	*11.6*	*0.6*	*.*
(l) One Linear Models Course	60	17	9	.	31	83
SE	*3.5*	*8.6*	*2.6*	*.*	*2.9*	*8.6*
(m) One Bayesian Inference Course	11	17	15	.	74	83
SE	*2.3*	*8.6*	*2.4*	*.*	*3.1*	*8.6*

TABLE SP.20	Academic Years 2014-2015 & 2015-2016			
Upper-level mathematics courses	All Math Depts 2014-2016 %	PhD Math %	MA Math %	BA Math %
Modern Algebra I	78	81	89	75
SE	*3.4*	*5.6*	*3.8*	*4.6*
Modern Algebra II	27	57	48	17
SE	*3.7*	*6.1*	*9.2*	*4.5*
Number Theory	37	59	65	27
SE	*4.2*	*6.3*	*6.4*	*5.2*
Combinatorics	22	39	45	15
SE	*2.5*	*4.3*	*7.2*	*2.9*
Actuarial Mathematics	21	38	40	14
SE	*2.6*	*3.8*	*6.6*	*3.0*
Foundations/Logic	12	15	19	10
SE	*2.5*	*4.6*	*7.5*	*3.1*
Discrete Structures	21	20	27	20
SE	*3.0*	*4.2*	*6.9*	*4.0*
History of Mathematics	47	58	66	41
SE	*4.1*	*6.0*	*5.5*	*5.3*
Geometry	71	79	77	68
SE	*2.7*	*5.3*	*6.0*	*3.6*
Math for Secondary Teachers	33	45	59	26
SE	*3.7*	*6.8*	*8.6*	*4.6*
Adv Calculus/ Real Analysis I	72	84	95	65
SE	*3.6*	*6.4*	*3.2*	*4.8*
Adv Calculus/Real Analysis II	31	78	49	17
SE	*3.6*	*6.2*	*5.9*	*4.6*
Adv Mathematics for Engineering/Physics	12	36	16	5
SE	*1.9*	*5.6*	*6.6*	*1.8*
Advanced Linear Algebra	22	56	54	8
SE	*2.6*	*6.8*	*7.2*	*2.2*
Introduction to Proofs	56	65	76	50
SE	*4.3*	*6.3*	*3.3*	*5.5*

TABLE SP.20 (continued)	Academic Years 2013-2014 & 2015-2016			
Upper-level math courses, continued	All Math Depts 2014-2016 %	PhD Math %	MA Math %	BA Math %
Vector Analysis	11	32	9	7
SE	*2.6*	*7.9*	*4.7*	*2.8*
Advanced Differential Equations	16	58	23	5
SE	*2.2*	*7.6*	*4.3*	*1.3*
Partial Differential Equations	29	71	61	14
SE	*3.0*	*6.6*	*5.5*	*3.0*
Numerical Analysis I and II	43	66	74	33
SE	*4.1*	*5.8*	*7.0*	*5.1*
Applied Math/Modeling	36	45	53	31
SE	*4.5*	*8.1*	*10.8*	*5.5*
Complex Variables	43	64	55	36
SE	*3.7*	*9.6*	*8.3*	*4.7*
Topology	28	51	53	18
SE	*2.7*	*7.3*	*7.1*	*3.2*
Mathematics of Finance	13	35	23	7
SE	*2.1*	*7.0*	*5.5*	*1.9*
Codes & Cryptology	11	19	18	8
SE	*2.2*	*4.2*	*7.0*	*2.7*
Biomathematics	8	26	10	4
SE	*1.3*	*5.3*	*3.5*	*1.1*
Operations Research	18	15	35	16
SE	*2.9*	*3.8*	*4.9*	*3.8*
Math senior seminar/Ind study	66	63	81	65
SE	*3.7*	*5.6*	*7.8*	*4.5*
All other advanced-level mathematics	25	34	47	19
SE	*4.0*	*5.1*	*4.2*	*5.4*

TABLE SP.21	AY 2014-15 & 2015-16				AY 2015-16 & 2015-16		
Upper-level statistics courses	All Math Depts %	PhD Math %	MA Math %	BA Math %	All Stat Depts %	PhD Stat %	MA Stat %
Introductory Probability and/or Statistics	18	14	28	16	48	54	31
SE	*2.7*	*4.7*	*5.4*	*3.4*	*3.0*	*3.4*	*6.6*
Mathematical Statistics	34	47	42	30	73	82	46
SE	*4.3*	*5.4*	*6.0*	*5.5*	*2.6*	*2.5*	*7.1*
Probability	37	53	41	32	70	77	46
SE	*2.97*	*5.6*	*3.9*	*3.7*	*2.6*	*2.6*	*7.1*
Combined Probability and Statistics	32	33	45	30	48	48	46
SE	*4.17*	*3.8*	*5.2*	*5.9*	*3.1*	*3.4*	*7.1*
Stochastic Processes	12	26	25	6	49	55	31
SE	*2.33*	*5.5*	*8.0*	*2.6*	*3.1*	*3.5*	*6.6*
Applied Statistical Analysis	12	19	29	7	46	46	46
SE	*2.32*	*5.5*	*7.6*	*2.3*	*3.2*	*3.5*	*7.1*
Experimental Design	9	13	26	5	59	58	62
SE	*1.86*	*4.9*	*6.9*	*1.8*	*3.1*	*3.4*	*6.9*
Regression & Correlation	15	19	38	10	78	84	62
SE	*1.90*	*3.0*	*6.7*	*2.1*	*2.5*	*2.4*	*6.9*
Biostatistics	7	11	9	6	36	40	23
SE	*1.45*	*2.9*	*4.2*	*1.8*	*3.0*	*3.5*	*6.0*
Nonparametric Statistics	6	9	14	4	44	46	38
SE	*1.24*	*2.7*	*3.9*	*1.4*	*3.1*	*3.4*	*6.9*
Categorical Data Analysis	4	8	11	2	30	35	15
SE	*1.18*	*2.4*	*6.6*	*0.9*	*2.8*	*3.3*	*5.1*
Sample Survey Design	4	6	13	2	50	56	31
SE	*1.12*	*2.8*	*4.9*	*1.0*	*3.0*	*3.4*	*6.6*
Stat Software & Computing	11	17	23	8	62	64	54
SE	*1.89*	*3.4*	*4.0*	*2.5*	*3.1*	*3.5*	*7.1*
Data Science	7	11	17	5	36	38	31
SE	*2.07*	*3.4*	*5.8*	*2.6*	*3.0*	*3.4*	*6.6*
Bayesian Statistics	na	na	na	na	47	55	23
SE	*na*	*na*	*na*	*na*	*2.9*	*3.3*	*6.0*
Statistical Consulting	na	na	na	na	34	38	23
SE	*na*	*na*	*na*	*na*	*3.0*	*3.4*	*6.0*
Senior Seminar/ Independent Study	9	13	20	6	56	59	46
SE	*1.6*	*3.4*	*5.5*	*1.9*	*3.0*	*3.3*	*7.1*

TABLE SP.22	Mathematics Departments			Statistics Departments	
Departmental estimates of post-college plans	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %
Students who went into pre-college teaching	12	25	26	1	1
SE	*1.8*	*4.7*	*3.5*	*0.2*	*0.5*
Students who went to graduate school in the mathematical or statistical sciences	11	13	12	17	10
SE	*1.4*	*2.7*	*1.4*	*1.0*	*3.4*
Students who went to graduate or professional school outside of mathematics/statistics	8	4	7	10	1
SE	*1.2*	*1.5*	*1.9*	*0.9*	*0.6*
Students who took jobs in business, government, etc.	27	19	34	34	20
SE	*2.7*	*5.2*	*3.1*	*2.1*	*7.4*
Students who had other plans known to the department	3	3	4	3	0
SE	*0.6*	*1.1*	*1.7*	*0.3*	*0.0*
Students whose plans are not known to the department	40	36	16	36	68
SE	*4.0*	*9.7*	*2.0*	*2.8*	*11.3*

TABLE SP.23	Four-year Mathematics Departments			Statistics Departments	
Percentage using various assessment tools	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %
Consult outside reviewers	36	57	40	44	42
SE	*6.7*	*6.8*	*6.9*	*3.6*	*7.3*
Survey program graduates	67	83	59	70	67
SE	*5.5*	*6.2*	*5.4*	*3.3*	*7.0*
Consult other departments	44	42	38	46	17
SE	*6.7*	*5.0*	*4.7*	*3.6*	*5.6*
Study data on students' progress in later courses	63	77	62	21	33
SE	*6.4*	*6.2*	*7.4*	*2.7*	*7.0*
Assessed teaching objectives	78	81	85	98	67
SE	*3.3*	*7.7*	*4.7*	*0.5*	*7.0*
Evaluate placement system	72	52	57	18	25
SE	*6.2*	*9.5*	*4.8*	*2.8*	*6.5*
Change undergraduate program due to assessment	80	76	70	76	75
SE	*5.1*	*5.1*	*7.4*	*2.9*	*6.5*

TABLE SP.24

Activity	All Math Depts	PhD Math	MA Math	BA Math	All Stat Depts	PhD Stat	MA Stat
Yes	88	97	83	87	86	84	92
SE	*2.5*	*2.0*	*7.8*	*3.3*	*2.3*	*2.8*	*3.8*
No	12	3	17	13	14	16	8
SE	*2.5*	*2.0*	*7.8*	*3.3*	*2.3*	*2.8*	*3.8*

TABLE SP.25

Activity	All Math Depts	PhD Math	MA Math	BA Math	All Stat Depts	PhD Stat	MA Stat
Sylabbi for classes	87	95	96	84	98	98	100
SE	*3.1*	*2.1*	*3.4*	*4.2*	*0.8*	*1.0*	*0.0*
Teaching for portfolios	16	23	28	12	36	35	42
SE	*2.4*	*3.8*	*7.7*	*2.8*	*2.9*	*3.1*	*7.3*
Peer evaluation of instructors	64	78	74	60	64	60	75
SE	*3.5*	*4.7*	*8.1*	*4.5*	*3.0*	*3.4*	*6.4*
Self-evaluation of instructors	51	28	47	57	29	22	50
SE	*4.7*	*4.9*	*6.9*	*6.1*	*2.9*	*3.0*	*7.4*
Department discussions of teaching practices	69	66	64	71	73	68	92
SE	*5.0*	*5.9*	*4.7*	*6.7*	*2.8*	*3.4*	*4.1*
Note of these are available	2	2	3	1			
SE	*0.7*	*1.6*	*2.2*	*0.8*			

TABLE SP.26

Activity	All Math Depts	PhD Math	MA Math	BA Math	All Stat Depts	PhD Stat	MA Stat
Inquiry based class	58	56	71	57	54	56	45
SE	*5.5*	*5.5*	*5.8*	*7.2*	*3.1*	*3.3*	*7.8*
Flipped classroom	58	61	52	59	39	35	55
SE	*4.1*	*5.8*	*9.6*	*5.3*	*2.9*	*3.1*	*7.8*
Class conducted largely online	38	49	53	33	48	49	45
SE	*5.5*	*7.1*	*6.1*	*7.2*	*3.0*	*3.2*	*7.8*
Activity based learning	66	64	71	65	77	70	100
SE	*5.3*	*6.6*	*9.1*	*7.3*	*2.7*	*3.4*	*0.0*
Technology used to develop conceptual understanding	86	82	91	86	84	84	82
SE	*3.0*	*5.1*	*5.1*	*3.9*	*2.7*	*3.0*	*6.0*

TABLE SP.27

Activity	All Math Depts	PhD Math	MA Math	BA Math	All Stat Depts	PhD Stat	MA Stat
Department experienced major changes over the last 10 years	60	62	65	58	80	78	85
SE	*4.5*	*4.6*	*8.4*	*6.1*	*2.6*	*3.0*	*5.1*
Of those experiencing change, the percent attributing the change to:							
Educational research	61	67	77	56	49	53	36
SE	*5.7*	*8.3*	*8.5*	*7.6*	*3.6*	*4.0*	*7.5*
Advocacy of some faculty member in the department	91	99	90	90	88	88	91
SE	*3.2*	*0.3*	*6.4*	*4.4*	*2.4*	*2.9*	*4.5*
Advocacy by another department	16	23	14	15	16	21	0
SE	*4.5*	*4.9*	*7.3*	*6.2*	*2.5*	*3.4*	.
Advocacy by institution's administrators	37	47	30	35	47	48	45
SE	*4.7*	*10.0*	*8.5*	*6.2*	*3.5*	*3.9*	*7.8*
Advocacy by a professional organization	39	31	33	43	38	36	45
SE	*4.5*	*9.2*	*6.3*	*6.3*	*3.5*	*3.9*	*7.8*

TABLE SP.28	Mathematics Departments			
Number of tracks	Univ (PhD)	Univ (MA)	College (BA)	Total
Offer a minor in statistics (%)	13	52	10	16
SE	*3.3*	*7.5*	*2.1*	*2.1*
Number of graduates	305	323	384	1012
SE	*154.2*	*110.9*	*97.4*	*213.4*
Offer a major in statistics (%)	25	26	4	10
SE	*5.7*	*8.2*	*1.6*	*1.8*

TABLE SP.29

	Doctoral Math	*SE*	Masters Math	*SE*	Bachelors Math	*SE*	All Math	*SE*	Doctoral Stat	*SE*	Masters Stat	*SE*	All Stat	*SE*
Postdocs during 2014-2015 academic year	1297	*99.8*	46	*16.1*	119	*52.3*	1463	*113.8*	100	*29.6*	0	*0.0*	100	*29.6*
Number who left the position for fall 2015	501	*53.7*	33	*14.9*	106	*49.3*	640	*74.4*	30	*9.6*	0	*0.0*	30	*9.6*
Percent who left the position for fall 2015	38.6%	*0.0*	70.5%	*0.0*	88.8%	*0.1*	43.7%	*0.0*	30%	*0.1*		-	30%	
Of those who left the position for fall 2015:														
Number who took tenure-track position	180	*26.6*	8	*3.9*	72	*39.5*	260	*47.8*	7	*3.3*	0	*0.0*	7	*3.3*
Percent who took tenure-track position	36%	*0.0*	25%	*0.1*	68%	*0.1*	41%	*0.0*	24%	*0.1*		-	24%	
Number who took another postdoc position	111	*18.9*	6	*4.7*	0	*0.0*	117	*19.5*	4	*1.9*	0	*0.0*	4	*1.9*
Percent who took another postdoc position	22%	*0.0*	18%	*0.1*	0%	*0.0*	18%	*0.0*	13%	*0.1*			13%	
Number who took renewable appointment for fall 2015	67	*15.9*	13	*9.5*	29	*11.8*	109	*22.0*	15	*8.5*	0	*0.0*	15	*8.5*
Percent who took renewable appointment for fall 2015	13%	*0.0*	41%	*0.1*	27%	*0.1*	17%	*0.0*	51%	*0.1*			51%	
Number who took non-renewable appointment for fall 2015	30	*9.9*	0	*0.0*	0	*0.0*	30	*9.9*	2	*1.2*	0	*0.0*	2	*1.2*
Percent who took non-renewable appointment for fall 2015	6%	*0.0*	0%	*0.0*	0%	*0.0*	5%	*0.0*	6%	*0.0*			6%	
Number who took non-academic appointment for fall 2015	29	*5.8*	3	*2.4*	5	*4.2*	36	*7.5*	2	*1.2*	0	*0.0*	2	*1.2*
Percent who took non-academic appointment for fall 2015	6%	*0.0*	9%	*0.1*	4%	*0.0*	6%	*0.0*	6%	*0.0*			6%	
Number unemployed for fall 2015	2	*1.3*	0	*0.0*	0	*0.0*	2	*1.3*	0	*0.0*	0	*0.0*	0	*0.0*
Percent unemployed for fall 2015	0%	*0.0*	0%	*0.0*	0%	*0.0*	0%	*0.0*	0%	*0.0*			0%	
Number whose status is unknown for fall 2015	83	*13.6*	2	*1.8*	0	*0.0*	86	*13.7*	0	*0.0*	0	*0.0*	0	*0.0*
Percent whose status is unknown for fall 2015	17%	*0.0*	7%	*0.1*	0%	0.0	13%	*0.0*	0%	*0.0*			0%	

TABLE SP.30

Section B	Doctoral Math	*SE*	Masters Math	*SE*	Bachelors Math	*SE*	All Math	*SE*	Doctoral Stat	*SE*	Masters Stat	*SE*	All Stat	*SE*
Renewable positions filled for 2014-2015	1641	*76.5*	850	*101.9*	1778	*136.9*	4269	*187.0*	214	*24.9*	51	*15.1*	265	*29.1*
Number that Left renewable position for 2015	229	*26.6*	122	*25.5*	375	*60.2*	726	*70.6*	15	*4.9*	5	*4.2*	20	*6.5*
Percent that Left renewable position for 2016	14%	*0.8%*	14%	*1.1%*	21%	*1.8%*	17%	*0.8%*	7%	*2.0%*	11%	*5.7%*	8%	*1.9%*
Renewable positions filled for 2015-2016	1645	*73.4*	865.2	*101.7*	1808	*136.3*	4319	*185.3*	253	*33.0*	35	*8.9*	288	*34.2*
Number Active in teaching	1625	*73.2*	865.2	*101.7*	1794	*136.4*	4285	*185.2*	244	*33.2*	35	*8.9*	278	*34.3*
Percent Active in teaching	99%	*0.3%*	100%	*0.0%*	99%	*0.4%*	99%	*0.2%*	96%	*1.7%*	100%	*0.0%*	97%	*1.5%*
Number Active in research	276	*30.4*	92	*18.6*	311	*59.1*	679	*69.0*	92	*34.2*	3	*2.1*	94	*34.3*
Percent Active in research	17%	*0.9%*	11%	*1.3%*	17%	*1.6%*	16%	*0.8%*	36%	*3.0%*	8%	*6.1%*	33%	*2.8%*
Number that Attend research conf. with support	175	*22.4*	80	*20.0*	341	*61.3*	595	*68.2*	39	*19.4*	3	*2.1*	42	*19.5*
Percent that Attend research conf. with support	11%	*0.7%*	9%	*1.2%*	19%	*1.7%*	14%	*0.8%*	15%	*2.5%*	8%	*6.1%*	14%	*2.3%*
Number that Attend teaching conf. with support	377	*60.7*	219	*31.9*	666	*77.6*	1262	*103.5*	37	*8.2*	0	-	37	*8.2*
Percent that Attend teaching conf. with support	23%	*0.9%*	25%	*1.8%*	37%	*2.1%*	29%	*1.0%*	15%	*2.4%*	0%	*0.0%*	13%	*2.1%*
Number that Serve on dept. committees	866	*129.4*	512	*63.3*	1145	*107.8*	2524	*179.9*	137	*29.5*	21	*10.2*	159	*31.2*
Percent that Serve on dept. committees	53%	*0.9%*	59%	*2.1%*	63%	*2.0%*	58%	*1.0%*	54%	*3.2%*	62%	*11.1%*	55%	*3.1%*
Number that Advise undergrad. research projects	200	*30.0*	90	*19.6*	363	*59.9*	653	*69.8*	40	*13.1*	11	*6.3*	50	*14.5*
Percent that Advise undergrad. research projects	12%	*0.8%*	10%	*1.2%*	20%	*1.7%*	15%	*0.8%*	16%	*2.5%*	31%	*10.5%*	18%	*2.5%*
Number that Serve as academic advisor	337	*33.0*	208	*35.3*	725	*98.6*	1271	*109.8*	77	*25.3*	11	*6.3*	88	*26.1*
Percent that Serve as academic advisor	20%	*0.9%*	24%	*1.7%*	40%	*2.1%*	29%	*1.0%*	30%	*3.1%*	31%	*10.5%*	31%	*3.0%*
Number that Serve on univ. committees	234	*27.9*	176	*21.9*	711	*95.4*	1121	*101.8*	31	*6.2*	13	*3.9*	44	*7.3*
Percent that Serve on univ. committees	14%	*0.8%*	20%	*1.7%*	39%	*2.0%*	26%	*1.0%*	12%	*2.2%*	38%	*11.1%*	15%	*2.3%*
Number that Serve as course coordinator	540	*36.0*	179	*21.8*	504	*63.0*	1224	*75.8*	51	*9.6*	19	*6.0*	69	*11.3*
Percent that Serve as course coordinator	33%	*1.0%*	21%	*1.7%*	28%	*1.9%*	28%	*1.0%*	20%	*2.8%*	54%	*11.4%*	24%	*2.8%*

TABLE SP.31

Section C	Doctoral Math	*SE*	Masters Math	*SE*	Bachelors Math	*SE*	All Math	*SE*	Doctoral Stat	*SE*	Masters Stat	*SE*	All Stat	*SE*
Number of Fixed-term positions filled for 2014-2015	511	*63.1*	311	*58.0*	680	*94.1*	1503	*127.3*	48	*10.2*	5	*2.7*	53	*10.5*
Number that left fixed-term position for 2015	159	*25.7*	81	*19.8*	212	*34.2*	453	*47.1*	26	*8.3*	5	*2.7*	31	*8.7*
Percent that left fixed-term position for 2015	31%	*2.0%*	26%	*2.8%*	31%	*3.3%*	30%	*1.7%*	54%	*8.9%*	100%	*0.0%*	58%	*8.0%*
Number of Fixed-term positions filled for 2015-2016	574	*61.94*	383	*64.5*	658.5	*88.0*	1615	*125.5*	55	*9.8*	13	*6.0*	68	*11.5*
Number Active in teaching	567	*61.99*	383	*64.5*	655.9	*88.1*	1606	*125.5*	49	*9.5*	13	*6.0*	62	*11.2*
Percent Active in teaching	99%	*0.4%*	100%	*0.0%*	100%	*0.3%*	99%	*0.2%*	89%	*4.0%*	100%	*0.0%*	91%	*3.2%*
Number Active in research	214	*40.3*	45	*11.8*	268	*52.6*	526	*67.3*	28	*9.4*	3	*2.1*	31	*9.7*
Percent Active in research	37%	*1.8%*	12%	*2.0%*	41%	*3.2%*	33%	*1.5%*	52%	*8.4%*	20%	*15.8%*	46%	*7.4%*
Number that Attend research conf. with support	153	*37.5*	27	*8.5*	242	*45.5*	422	*59.6*	10	*8.0*	3	*2.1*	12	*8.2*
Percent that Attend research conf. with support	27%	*1.7%*	7%	*1.6%*	37%	*3.3%*	26%	*1.5%*	18%	*6.5%*	20%	*15.8%*	18%	*6.1%*
Number that Attend teaching conf. with support	61	*24.6*	41	*10.6*	159	*29.6*	260	*39.9*	0	*0.0*	0	*0.0*	0	*0.0*
Percent that Attend teaching conf. with support	11%	*1.4%*	11%	*2.0%*	24%	*3.1%*	16%	*1.4%*	0%	*0.0%*	0%	*0.0%*	0%	*0.0%*
Number that Serve on dept. committees	73	*27.6*	117	*31.7*	246	*50.8*	437	*65.9*	10	*8.0*	3	*2.1*	12	*8.2*
Percent that Serve on dept. committees	13%	*1.4%*	31%	*2.8%*	37%	*3.1%*	27%	*1.5%*	18%	*6.5%*	20%	*15.8%*	18%	*6.1%*
Number that Advise undergrad. research projects	19	*8.1*	32	*16.2*	176	*45.5*	227	*49.0*	4	*2.8*	0	*0.0*	4	*2.8*
Percent that Advise undergrad. research projects	3%	*0.8%*	8%	*1.7%*	27%	*3.2%*	14%	*1.4%*	7%	*3.2%*	0%	*0.0%*	6%	*2.5%*
Number that Serve as academic advisor	18	*8.0*	14	*7.3*	113	*43.9*	145	*45.2*	4	*2.8*	0	*0.0*	4	*2.8*
Percent that Serve as academic advisor	3%	*0.6%*	4%	*1.1%*	17%	*2.7%*	9%	*1.2%*	7%	*3.2%*	0%	*0.0%*	6%	*2.5%*
Number that Serve on university committees	7	*3.2*	27	*8.9*	78	*27.3*	113	*28.9*	0	*0.0*	0	*0.0*	0	*0.0*
Percent that Serve on university committees	1%	*0.6%*	7%	*1.6%*	12%	*2.5%*	7%	*1.1%*	0%	*0.0%*	0%	*0.0%*	0%	*0.0%*
Number that Serve as course coordinator	44	*10.6*	26	*8.5*	100	*27.6*	170	*30.7*	0	*0.0*	0	*0.0*	0	*0.0*
Percent that Serve as course coordinator	8%	*1.0%*	7%	*1.6%*	15%	*2.6%*	11%	*1.2%*	0%	*0.0%*	0%	*0.0%*	0%	*0.0%*

TABLE E.1.A	Mathematics Departments							
Bachelor's degrees in Math Depts	Univ (PhD)	*SE*	Univ (MA)	*SE*	Coll (BA)	*SE*	Total Math Depts	*SE*
Mathematics Majors (including applied)								
Men	3431	*556.4*	1436	*356.2*	2529	*400.1*	7396	*771.6*
Women	1645	*255.0*	1365	*544.2*	2388	*580.0*	5398	*835.0*
Percentage of women	*32%*	*0.0*	*49%*	*0.1*	*49%*	*0.0*	*42%*	***0.0***
Total Math degrees	5076	*798.9*	2801	*889.8*	4917	*947.2*	12794	*1524.6*
Mathematics Education Majors								
Men	235	*43.6*	412	*104.0*	497	*130.2*	1143	*172.3*
Women	401	*109.2*	480	*98.9*	851	*127.7*	1732	*195.0*
Percentage of women	*63%*	*0.1*	*54%*	*0.0*	*63%*	*0.1*	*60%*	***0.0***
Total Math Ed degrees	636	*139.9*	891	*198.5*	1348	*227.2*	2875	*332.5*
Statistics Majors								
Men	98	*25.6*	77	*35.8*	95	*40.7*	270	*60.0*
Women	28	*8.6*	56	*31.9*	62	*31.9*	147	*46.0*
Percentage of women	*22%*	*0.1*	*42%*	*0.1*	*40%*	*0.1*	*35%*	***0.1***
Total Stat degrees	126	*29.7*	133	*65.2*	157	*63.6*	416	*95.8*
Computer Science Majors								
Men	7	*6.0*	483	*169.2*	2177	*627.1*	2666	*649.6*
Women	3	*3.0*	217	*89.9*	1082	*486.9*	1302	*495.2*
Percentage of women	*33%*	*na*	*31%*	*0.1*	*33%*	*0.1*	*33%*	***0.1***
Total CS degrees	10	*9.0*	700	*229.7*	3259	*972.0*	3968	*998.8*
Actuarial Mathematics Majors								
Men	997	*225.0*	207	*105.6*	167	*68.6*	1371	*257.6*
Women	635	*147.2*	134	*67.9*	75	*30.4*	844	*164.8*
Percentage of women	*39%*	*0.0*	*39%*	*0.0*	*31%*	*0.1*	*38%*	*0.0*
Total Actuarial Math degrees	1632	*370.4*	341	*173.3*	243	*94.4*	2215	*419.4*
Joint Mathematics Majors								
Men	212	*81.4*	224	*135.1*	491	*142.4*	927	*212.4*
Women	109	*37.5*	168	*114.6*	156	*48.5*	433	*129.9*
Percentage of women	*34%*	*0.0*	*43%*	*0.1*	*24%*	*0.1*	*32%*	*0.0*
Total Joint degrees	321	*117.2*	393	*249.4*	646	*171.1*	1360	*324.1*
Other Mathematics Majors								
Men	357	*84.7*	87	*30.5*	16	*12.8*	460	*86.1*
Women	251	*60.2*	37	*13.1*	10	*8.5*	298	*60.1*
Percentage of women	*41%*	*0.0*	*30%*	*0.0*	*38%*	*0.5*	*39%*	*0.0*
Total other Math degrees	608	*144.8*	124	*43.5*	26	*15.2*	758	*145.0*
Total degrees - Men	5337	*809.4*	2925	*586.8*	5971	*999.7*	14233	*1410.6*
Total degrees - Women	3072	*458.4*	2458	*596.4*	4624	*1047.0*	10154	*1287.6*
Percentage of women	*37%*	*0.0*	*46%*	*0.0*	*44%*	*0.0*	*42%*	*0.0*
Total all degrees	8409	*1250.7*	5383	*1143.6*	10595	*1892.1*	24387	*2535.2*

TABLE E.1.B	Statistics Departments					
Bachelor's degrees in Math and Stat Depts	Univ (PhD)	*SE*	Univ (MA)	*SE*	Total Stat Depts	*SE*
Statistics Majors						
Men	540	*36.8*	55	*12.8*	594	*38.9*
Women	418	*22.8*	42	*9.9*	460	*24.8*
Percentage of women	*44%*	*0.0*	*43%*	*0.0*	*44%*	*0.0*
Total Statistics degrees	958	*57.2*	97	*22.5*	1055	*61.4*
Biostatistics						
Men	17	*4.7*	0	*0.0*	17	*4.7*
Women	21	*6.2*	0	*0.0*	21	*6.2*
Percentage of women	*55%*	*0.0*	*NA*	*.*	*55%*	*0.0*
Total Biostatistics degrees	**38**	***10.9***	**0**	***0.0***	38	*10.9*
Actuarial Science						
Men	58	*10.7*	7	*3.2*	65	*11.2*
Women	73	*12.1*	1	*0.6*	74	*12.1*
Percentage of women	*56%*	*0.0*	*17%*	*na*	*53%*	*0.0*
Total Actuarial Science degrees	131	*22.8*	8	*3.8*	139	*23.1*
Joint Statistics and Computer Science						
Men	46	*6.0*	0	*0.0*	46	*6.0*
Women	18	*2.2*	0	*0.0*	18	*2.2*
Percentage of women	*28%*	*0.0*	*0%*	*na*	*28%*	*0.0*
Total Joint Statistics and Computer Science degrees	**64**	***7.9***	**0**	***0.0***	64	*7.9*
Joint Statistics and Mathematics						
Men	*124*	*13.4*	*0*	*0.0*	*124*	*13.4*
Women	*72*	*7.1*	*0*	*0.0*	*72*	*7.1*
Percentage of women	*37%*	*0.0*	*0%*	*na*	*37%*	*0.0*
Total Joint Statistics and Mathematics degrees	**196**	***20.2***	**0**	***0.0***	196	*20.2*
Joint Statistics and (Business or Economics)						
Men	*116*	*19.8*	*0*	*0.0*	*116*	*19.8*
Women	*84*	*10.5*	*0*	*0.0*	*84*	*10.5*
Percentage of women	*42%*	*0.0*	*0%*	*na*	*42%*	*0.0*
Total Joint Statistics and (Business or Economics) degrees	**200**	***29.8***	**0**	***0.0***	200	*29.8*
Statistics Education						
Men	*2*	*0.0*	*0*	*0.0*	*2*	*0.0*
Women	*3*	*0.0*	*0*	*0.0*	*3*	*0.0*
Percentage of women	*60%*	*0.0*	*0%*	*na*	*60%*	*0.0*
Total Statistics Education degrees	**5**	***0.0***	**0**	***0.0***	5	*0.0*
Other						
Men	*62*	*10.2*	*29*	*14.1*	*90*	*17.4*
Women	*47*	*7.4*	*12*	*5.8*	*59*	*9.4*
Percentage of women	*43%*	*0.0*	*29%*	*na*	*39%*	*0.0*
Total Other degrees	*109*	*16.3*	*41*	*19.9*	*149*	*25.7*
Total degrees - Men	965	*58.1*	90	*18.9*	1055	*61.1*
Total degrees - Women	737	*40.0*	55	*10.9*	792	*41.5*
Percentage of women	*43%*	*0.0*	*38%*	*0.0*	*43%*	*0.0*
Total all degrees	1702	*96.3*	145	*29.40*	1847	*100.7*
Total degrees - Women	40.0	*10.9*	41.5			
Percentage of women	0.6%	*2.1%*	0.5%			
Total all degrees	96.3	*29.4*	100.7			

Table E.1.C.

Institutions with a:	Annual Survey	*SE*	CBMS	*SE*
Doctoral Mathematics Departments	13477	*70.0*	10256	*1405.5*
Masters Mathematics Departments	4701	*141.0*	5383	*1143.6*
Bachelor's Mathematics Departments	12204	*270.0*	10595	*1892.1*
Grand Total	30382	*348.0*	26234	*2849.0*

Table E.1.D.

Institutions with a:	CBMS	*SE*
Doctoral Mathematics Department	10256	*1405.5*
Masters Mathematics Department	5383	*1143.6*
Bachelor's Mathematics Department	10595	*1892.1*
Grand Total	26234	*2849.0*

TABLE E.2	Fall 2015 (2005, 2010) enrollments (in 1000s)						
	Mathematics Departments				Statistics Departments		
	Univ (PhD)	Univ (MA)	Coll (BA)	Total Math Depts	Univ (PhD)	Univ (MA)	Total Stat Depts
Mathematics Courses							
Precollege	80	48	125	253			
SE	*16.0*	*11.2*	*18.1*	*26.5*			
Introductory (incl. Precalc)	408	226	365	1000			
SE	*53.8*	*37.6*	*46.2*	*79.6*			
Calculus level	474	157	176	807			
SE	*45.8*	*36.6*	*21.4*	*62.3*			
Advanced Mathematics	81	30	43	154			
SE	*10.1*	*4.2*	*5.4*	*12.2*			
Total Math courses	1043	461	709	2213			
SE	*95.1*	*72.8*	*73.8*	*139.7*			
Statistics Courses							
Introductory Statistics	57	62	134	253	78	16	94
SE	*9.2*	*11.6*	*14.4*	*20.2*	*2.3*	*1.8*	*2.9*
Upper Statistics	17	24	20	60	45	5	50
SE	*2.0*	*5.1*	*2.5*	*6.1*	*2.1*	*0.8*	*2.3*
Total Stat Courses	74	85	154	313	124	20	144
SE	*10.9*	*15.4*	*15.7*	*24.2*	*3.4*	*2.2*	*4.0*
Computer Science Courses							
Lower Computer Science	4	5	36	45			
SE	*2.2*	*2.3*	*6.3*	*7.0*			
Middle Computer Science	1	2	14	16			
SE	*0.3*	*1.0*	*3.2*	*3.4*			
Upper Computer Science	0	2	5	6			
SE	*0.0*	*0.9*	*1.3*	*1.5*			
Total CS courses	5	8	55	68			
SE	*2.4*	*4.0*	*9.8*	*10.8*			
Total all courses	1122	554	918	2594	124	20	144
SE	*104.7*	*80.0*	*88.8*	*157.4*	*3.4*	*2.2*	*4.0*

TABLE E.3	Number of sections: Fall 2015 (Fall 2010)						
	Mathematics Departments				Statistics Departments		
	Univ (PhD)	Univ (MA)	Coll (BA)	Total Math Depts	Univ (PhD)	Univ (MA)	Total Stat Depts
Mathematics Courses							
Precollege level	2235	1578	4206	8020			
SE	*387.5*	*418.2*	*523.5*	*764.2*			
Introductory (incl. Precalc)	8245	6999	16948	32192			
SE	*962.1*	*1161.0*	*4678.9*	*4895.9*			
Calculus	8323	4579	8285	21186			
SE	*933.5*	*752.3*	*951.6*	*1523.0*			
Advanced Mathematics	3676	2633	4461	10771			
SE	*511.7*	*917.7*	*648.6*	*1233.0*			
Total Math courses	22479	15788	33901	72168			
SE	*2372.3*	*2596.1*	*5724.3*	*6669.5*			
Statistics Courses							
Introductory Statistics	1319	1493	4562	7374	1256	238	1494
SE	*253.4*	*304.2*	*445.8*	*572.3*	*74.1*	*34.6*	*81.8*
Upper Statistics	752	1432	1776	3960	796	174	970
SE	*107.2*	*538.6*	*716.9*	*903.0*	*36.0*	*23.9*	*43.2*
Total Stat Courses	2072	2925	6338	11334	2052	412	2464
SE	*334.5*	*610.0*	*922.7*	*1141.8*	*88.1*	*51.6*	*102.1*
Computer Science Courses							
Lower Computer Science	109	186	1987	2282			
SE	*56.4*	*86.4*	*380.9*	*394.6*			
Middle Computer Science	31	69	1128	1227			
SE	*13.8*	*41.4*	*294.2*	*297.5*			
Upper Computer Science	0	84	375	460			
SE	*0.0*	*43.0*	*86.1*	*96.2*			
Total CS courses	140	339	3490	3970			
SE	*59.8*	*157.4*	*691.8*	*712.0*			
Total all courses	24692	19053	43728	87472	2052	412	2464
SE	*2664.0*	*2630.5*	*6314.2*	*7261.3*	*88.1*	*51.6*	*102.1*

TABLE E.4	Four-year Mathematics Departments		Two-year Mathematics Departments		Statistics Departments	
	Distance-learning Enrollments	Other Enrollments	Distance-learning Enrollments	Other Enrollments	Distance-learning Enrollments	Other Enrollments
Precollege Level	8405	244475	89035	693252		
SE	*1941.0*	*25721.2*	*16109.0*	*55794.2*		
College Algebra, Trigonometry, & Pre-Calculus	45226	954356	55227	390066		
SE	*9043.3*	*74355.6*	*7414.6*	*34706.3*		
Calculus I (mainstream and non-mainstream)	8968	346343	7455	84537		
SE	*3757.9*	*30642.4*	*1617.4*	*9007.5*		
Calculus II (mainstream and non-mainstream)	3410	125126	1813	32523		
SE	*1957.3*	*10653.8*	*480.4*	*3617.2*		
Differential Equations & Linear Algebra	1492	137567	480	13559		
SE	*555.9*	*11250.9*	*350.7*	*1797.9*		
Introductory Statistics	18696	234558	30608	220671	4291	89620
SE	3859.4	18627.2	4236.1	54738.0	535.4	2924.5

TABLE E.5	Number of calculus-level sections taught by					
	Tenured/ tenure-eligible	Other full-time	Part-time	Graduate Teaching Assistant	Unknown	Total Sections
Mathematics Departments						
Univ (PhD)	2803	2962	733	1370	454	8323
SE	*317.3*	*459.1*	*105.4*	*225.0*	*79.6*	*933.5*
Univ (MA)	2365	994	797	84	339	4579
SE	*269.7*	*225.2*	*339.8*	*20.2*	*195.2*	*752.3*
Coll (BA)	5896	1078	585	0	727	8285
SE	*592.4*	*247.6*	*122.8*	*0.0*	*297.1*	*951.6*
Total	11064	5034	2115	1454	1520	21186
SE	*720.5*	*567.6*	*376.3*	*226.8*	*363.2*	*1523.0*

TABLE E.6	Number of introductory statistics sections taught by					
	Tenured/ tenure-eligible	Other full-time	Part-time	Graduate Teaching Assistant	Unknown	Total Sections
Mathematics Departments						
Univ (PhD)	268	392	239	245	175	1319
SE	*79.2*	*89.0*	*75.1*	*81.2*	*98.4*	*253.4*
Univ (MA)	781	467	216	0	29	1493
SE	*196.6*	*99.7*	*69.9*	*0.0*	*20.4*	*304.2*
Coll (BA)	2006	725	1389	30	411	4562
SE	*236.8*	*121.5*	*201.7*	*20.3*	*98.4*	*445.8*
Total	3055	1584	1844	275	615	7374
SE	*304.6*	*180.6*	*221.2*	*83.7*	*153.4*	*572.3*
Statistics Departments						
Univ (PhD)	136	281	111	466	263	1256
SE	*11.3*	*19.0*	*13.4*	*45.2*	*39.6*	*74.1*
Univ (MA)	75	97	33	3	31	238
SE	*20.0*	*17.4*	*7.2*	*0.9*	*8.7*	*34.6*
Total	210	378	144	468	295	1494
SE	*23.0*	*25.7*	*15.2*	*45.2*	*40.5*	*81.8*

TABLE E.7

Mathematics Departments	Sections taught by TTE	Total sections	Statistics Departments	Sections taught by TTE	Total sections
Advanced Mathematics courses					
Univ (PhD)	2519	3676			
SE	*334.6*	*511.7*			
Univ (MA)	1769	2633			
SE	*279.5*	*917.7*			
Coll (BA)	3236	4461			
SE	*383.6*	*648.6*			
Total advanced mathematics	7525	10771			
SE	*578.1*	*1233.0*			
Advanced Statistics courses			Advanced Statistics courses		
Univ (PhD)	452	752	Univ (PhD)	394	796
SE	*84.9*	*107.2*	*SE*	*18.9*	*36.0*
Univ (MA)	656	1432	Univ (MA)	1010	1776
SE	*133.3*	*538.6*	*SE*	*20.5*	*23.9*
Coll (BA)	1010	1776			
SE	*145.8*	*716.9*			
Total advanced statistics	2118	3960	Total advanced statistics	533	970
SE	*215.0*	*903.0*	*SE*	*27.9*	*43.2*
Total all advanced courses	9643	14731	Total all advanced courses	533	970
SE	*758.3*	*1559.5*	*SE*	*27.9*	*43.2*

TABLE E.8	Number of lower-level computer science sections taught by					
	Tenured/ tenure-eligible/ permanent	Other full-time	Part-time	Graduate Teaching Assistant	Unknown	Total Sections
Mathematics Departments						
Univ (PhD)	30	71	8	0	0	109
SE	*15.4*	*40.1*	*6.4*	*0.0*	*0.0*	*56.4*
Univ (MA)	112	48	26	0	0	186
SE	*50.4*	*29.1*	*23.2*	*0.0*	*0.0*	*86.4*
Coll (BA)	899	339	277	0	472	1987
SE	*167.0*	*114.6*	*71.3*	*0.0*	*205.1*	*380.9*
Total	1042	458	311	0	472	2282
SE	*175.1*	*124.9*	*75.2*	*0.0*	*205.1*	*394.6*

TABLE E.9	Number of middle-level computer science sections taught by					
	Tenured/ tenure-eligible/ permanent	Other full-time	Part-time	Graduate Teaching Assistant	Unknown	Total Sections
Mathematics Departments						
Univ (PhD)	17	0	5	0	9	31
SE	*7.6*	*0.0*	*4.0*	*0.0*	*8.1*	*13.8*
Univ (MA)	55	4	9	0	0	69
SE	*30.9*	*3.9*	*7.7*	*0.0*	*0.0*	*41.4*
Coll (BA)	549	311	161	0	107	1128
SE	*151.1*	*141.3*	*77.2*	*0.0*	*96.8*	*294.2*
Total	621	316	174	0	116	1227
SE	*154.4*	*141.3*	*77.6*	*0.0*	*97.1*	*297.5*

TABLE E.10	Average section size Fall 2015							
	Mathematics Depts				Statistics Depts			All departments
	Univ (PhD)	Univ (MA)	Coll (BA)	Overall Math	Univ (PhD)	Univ (MA)	Overall Stat	2015
Mathematics courses								
Precollege	34	30	29	30				30
SE	*2.9*	*1.9*	*3.4*	*2.0*				*2.0*
Introductory (incl. Precalc)	47	31	20	30				30
SE	*2.8*	*2.4*	*4.8*	*3.8*				*3.8*
Calculus level	55	34	21	37				37
SE	*3.0*	*3.4*	*0.8*	*1.4*				*1.4*
Advanced Mathematics	22	11	10	14				14
SE	*1.4*	*4.4*	*1.1*	*1.4*				*1.4*
Statistics courses								
Introductory Statistics	40	39	27	32	59	65	60	37
SE	*3.3*	*2.6*	*0.8*	*0.9*	*2.7*	*6.7*	*2.4*	*1.0*
Upper Statistics	23	16	11	15	57	27	52	22
SE	*2.2*	*9.4*	*6.2*	*3.9*	*2.4*	*2.6*	*2.0*	*4.4*
CS courses								
Lower CS	38	24	18	19				19
SE	*3.0*	*4.9*	*1.7*	*1.7*				*1.7*
Middle CS	20	22	13	13				13
SE	*9.5*	*3.0*	*1.6*	*1.6*				*1.6*
Upper CS	NA	19	13	14				14
SE	.	*2.0*	*1.6*	*1.5*				*1.5*

TABLE E.11	Average recitation section size		
For Lecture/Recitation Courses	Univ (PhD)	Univ (MA)	College (BA)
Calculus Courses			
Mainstream Calculus I	31	34	17
SE	*1.4*	*14.5*	*3.8*
Mainstream Calculus II	29	14	9
SE	*1.5*	*7.4*	*3.9*
Other Calculus I	36	16	9
SE	*1.7*	*12.3*	*3.0*
Introductory Statistics			
in Mathematics Depts	33	19	26
SE	*4.0*	*10.2*	*2.7*
in Statistics Depts	25	28	na
SE	*3.5*	*2.9*	*na*

TABLE F.1	Univ (PhD)					Univ (MA)					Coll (BA)				
	Tenured	Tenure-eligible	OFT	Post-docs	Part-time	Tenured	Tenure-eligible	OFT	Post-docs	Part-time	Tenured	Tenure-eligible	OFT	Post-docs	Part-time
Mathematics Depts															
Doctoral Faculty	4591	998	2336	1150	588	2309	608	398	31	441	4780	1582	747	137	911
SE	*57.8*	*20.1*	*63.8*	*53.0*	*25.0*	*70.8*	*30.2*	*41.4*	*9.6*	*74.1*	*152.9*	*68.5*	*96.9*	*27.9*	*92.9*
Doctoral (F)	635	260	652	234	151	587	244	307	3	148	1346	614	420	51	289
SE	*15.2*	*10.2*	*19.8*	*12.7*	*8.7*	*26.1*	*19.5*	*17.9*	*2.3*	*30.9*	*60.8*	*34.8*	*40.1*	*13.2*	*35.1*
Non-doctoral Faculty	5	0	833	0	857	56	10	942	0	1469	238	93	2005	0	3416
SE	*1.1*	*0.0*	*34.4*	*-*	*54.3*	*10.1*	*3.5*	*62.9*	*-*	*114.0*	*31.1*	*19.1*	*124.1*	*-*	*192.3*
Non-doctoral (F)	2	0	480	0	361	18	9	540	0	686	99	45	882	0	1612
SE	*0.6*	*0.0*	*21.3*	*-*	*22.1*	*5.3*	*3.4*	*40.1*	*-*	*55.2*	*17.9*	*10.7*	*56.0*	*-*	*94.0*
Total Mathematics	4596	998	3170	1150	1445	2365	618	1339	31	1911	5018	1675	2752	137	4326
SE	*57.7*	*20.1*	*67.4*	*-*	*62.9*	*71.8*	*30.7*	*76.6*	*-*	*136.4*	*154.8*	*70.1*	*192.1*	*-*	*238.5*
Total Mathematics (F)	637	260	1133	234	512	605	252	847	3	835	1445	659	1303	51	1901
SE	*15.2*	*10.2*	*29.7*	*-*	*24.7*	*26.2*	*20.5*	*43.3*	*-*	*62.7*	*63.0*	*36.3*	*68.4*	*-*	*105.9*
Statistics Depts	Univ (PhD)					Univ (MA)									
Doctoral Faculty	649	220	226	113	91	123	40	13	3	21					
SE	*28.4*	*9.7*	*21.1*	*14.7*	*16.9*	*17.2*	*9.7*	*3.9*	*2.1*	*7.1*					
Doctoral (F)	137	71	107	22	19	16	19	8	0	5					
SE	*7.9*	*4.9*	*7.6*	*4.0*	*4.1*	*6.5*	*5.1*	*4.3*	*0.0*	*4.2*					
Non-doctoral Faculty	0	0	143	0	37	0	0	19	0	5					
SE	*0.0*	*0.0*	*4.6*	*-*	*6.7*	*0.0*	*0.0*	*6.0*	*-*	*2.7*					
Non-doctoral (F)	0	0	129	0	19	0	0	8	0	3					
SE	*0.0*	*0.0*	*3.5*	*-*	*3.8*	*0.0*	*0.0*	*2.8*	*-*	*2.1*					
Total Statistics	649	220	369	113	128	123	40	32	3	27					
SE	*28.4*	*9.7*	*21.3*	*-*	*19.8*	*17.2*	*9.7*	*6.5*	*-*	*7.8*					
Total Statistics (F)	137	71	237	22	38	16	19	16	0	8					
SE	*7.9*	*4.9*	*8.0*	*-*	*6.3*	*6.5*	*5.1*	*3.3*	*-*	*4.3*					

TABLE F.1.1	Tenured	Tenure-eligible	OFT	Post-docs	Part-time
Mathematics Depts	Univ (PhD) + Univ (MA) + Coll (BA)				
Doctoral Faculty	11681	3188	3481	1317	1940
SE	*178.1*	*77.5*	*123.2*	*60.7*	*121.4*
Doctoral (F)	2568	1118	1379	288	588
SE	*67.9*	*41.2*	*48.2*	*18.5*	*47.6*
Non-doctoral Faculty	298	103	3780	0	5742
SE	*32.7*	*19.5*	*143.3*	-	*230.0*
Non-doctoral (F)	120	54	1903	0	2659
SE	*18.7*	*11.2*	*72.0*	-	*111.2*
Total Mathematics	11979	3291	7261	1317	7682
SE	*180.1*	*79.1*	*217.5*	*60.7*	*281.9*
Total Mathematics (F)	2688	1171	3282	288	3248
SE	*69.9*	*42.9*	*86.2*	*18.5*	*125.5*
Statistics Depts	Univ (PhD) + Univ (MA)				
Doctoral Faculty	772	260	239	116	112
SE	*33.2*	*13.7*	*21.5*	*14.8*	*18.3*
Doctoral (F)	153	90	115	22	25
SE	*10.3*	*7.1*	*8.7*	*4.0*	*5.9*
Non-doctoral Faculty	0	0	162	0	43
SE	*0.0*	*0.0*	*7.6*	-	*7.2*
Non-doctoral (F)	0	0	137	0	21
SE	*0.0*	*0.0*	*4.5*	-	*4.3*
Total Statistics	772	260	401	116	155
SE	*33.2*	*13.7*	*22.3*	*14.8*	*21.3*
Total Statistics (F)	153	90	253	22	46
SE	*10.3*	*7.1*	*8.6*	*4.0*	*7.6*

TABLE F.2	Univ (PhD)				Univ (MA)				Coll (BA)				**Total**			
	Tenured	Tenure-eligible	Other full-time	Post-docs	Tenured	Tenure-eligible	Other full-time	Post-docs	Tenured	Tenure-eligible	Other full-time	Post-docs	Tenured	Tenure-eligible	Other full-time	Post-docs
Men, 2015	3958	739	2037	916	1760	366	493	28	3573	1015	1450	85	9292	2120	3979	1030
SE	*54.9*	*15.4*	*49.0*	*42.4*	*63.6*	*23.8*	*47.6*	*9.4*	*115.2*	*50.0*	*150.8*	*17.0*	*142.5*	*57.5*	*165.5*	*46.7*
Women, 2015	637	260	1133	234	605	252	847	3	1445	659	1303	51	2688	1171	3282	288
SE	*15.2*	*10.2*	*29.7*	*12.7*	*26.2*	*20.5*	*43.3*	*2.3*	*63.0*	*36.3*	*68.4*	*13.2*	*69.9*	*42.9*	*86.2*	*18.5*
Total, 2015	4596	998	3170	1150	2365	618	1339	31	5018	1675	2752	137	11979	3291	7261	1317
SE	*57.7*	*20.1*	*67.4*	*53.0*	*71.8*	*30.7*	*76.6*	*9.6*	*154.8*	*70.1*	*192.1*	*27.9*	*180.1*	*79.1*	*217.5*	*60.7*

TABLE F.3	Doctoral Statistics Departments				Masters Statistics Departments				**Total**			
	Tenured	Tenure-eligible	Other full-time	Postdocs	Tenured	Tenure-eligible	Other full-time	Postdocs	Tenured	Tenure-eligible	Other full-time	Postdocs
Men, 2015	512	148	132	91	107	21	16	3	618	170	148	94
SE	*25.0*	*9.1*	*15.8*	*12.6*	*11.6*	*7.8*	*4.6*	*2.1*	*27.6*	*11.9*	*16.4*	*12.7*
Women, 2015	137	71	237	22	16	19	16	0	153	90	253	22
SE	*7.9*	*4.9*	*8.0*	*4.0*	*6.5*	*5.1*	*3.3*	*0.0*	*10.3*	*7.1*	*8.6*	*4.0*
Total, 2015	649	220	369	113	123	40	32	3	772	260	401	116
SE	*28.4*	*9.7*	*21.3*	*14.7*	*17.2*	*9.7*	*6.5*	*2.1*	*33.2*	*13.7*	*22.3*	*14.8*

TABLE F.4 (Standard errors only)	<30 %	30-34 %	35-39 %	40-44 %	45-49 %	50-54 %	55-59 %	60-64 %	65-69 %	>69 %
Mathematics Depts.										
Univ (PhD)										
Tenured Men	0.0	0.1	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.3
Tenured Women	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Tenure-eligible men	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Tenure-eligible women	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Total Univ (PhD)	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Univ (MA)										
Tenured Men	0.0	0.2	0.5	0.6	0.6	0.6	0.6	0.7	0.5	0.5
Tenured Women	0.0	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.1
Tenure-eligible men	0.2	0.5	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.0
Tenure-eligible women	0.2	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0
Total Univ (MA)	0.4	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6
Coll (BA)										
Tenured Men	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2
Tenured Women	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0
Tenure-eligible men	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Tenure-eligible women	0.1	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.0
Total Coll (BA)	0.3	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.4
Statistics Depts.										
Univ (MA)										
Tenured Men	2.0	4.0	9.9	11.5	12.9	14.6	12.6	13.6	10.0	9.6
Tenured Women	0.0	4.7	7.4	7.3	9.2	8.8	7.6	8.6	6.2	3.1
Tenure-eligible men	5.6	9.6	9.1	6.9	1.2	1.9	2.1	2.0	0.0	0.0
Tenure-eligible women	4.9	8.9	6.7	5.3	3.5	3.5	3.6	0.8	1.0	0.0
Total Univ (MA)	1.8	3.3	3.8	3.6	3.0	2.2	2.5	3.6	3.4	2.2
Univ (PhD)										
Tenured Men	0.0	0.5	1.6	2.0	2.4	2.6	2.3	2.6	1.9	1.9
Tenured Women	0.0	0.7	1.3	1.3	1.7	1.4	1.4	1.6	1.0	0.6
Tenure-eligible men	0.9	1.5	1.7	1.1	0.2	0.4	0.2	0.1	0.0	0.0
Tenure-eligible women	0.9	1.5	1.2	0.8	0.7	0.1	0.5	0.2	0.2	0.0
Total Univ (PhD)	0.5	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.7	0.8

TABLE F.5	Percentage of Full-time Faculty					
	Asian	Black, not Hispanic	Mexican American/ Puerto Rican/ other Hispanic	White, not Hispanic	AIAN or NHPI	Unknown
	%	%	%	%	%	%
PhD Mathematics Departments						
All full-time men	15	1	3	55	0	2
SE	*0.2*	*0.1*	*0.1*	*0.3*	*0.0*	*0.1*
All full-time women	5	0	1	16	0	1
SE	*0.1*	*0.0*	*0.1*	*0.2*	*0.0*	*0.1*
MA Mathematics Departments						
All full-time men	11	2	3	46	0	2
SE	*0.6*	*0.2*	*0.4*	*0.9*	*0.1*	*0.3*
All full-time women	6	1	1	26	0	1
SE	*0.4*	*0.2*	*0.2*	*0.8*	*0.1*	*0.2*
BA Mathematics Departments						
All full-time men	6	2	1	53	0	2
SE	*0.3*	*0.2*	*0.2*	*0.7*	*0.1*	*0.2*
All full-time women	4	1	1	30	0	1
SE	*0.3*	*0.1*	*0.1*	*0.6*	*0.0*	*0.1*
All Statistics Departments						
All full-time men	22	1	2	45	0	2
SE	*0.9*	*0.2*	*0.3*	*1.1*	*0.2*	*0.3*
All full-time women	11	0	1	15	0	1
SE	*0.7*	*0.0*	*0.2*	*0.8*	*0.0*	*0.2*

TABLE F.6	Percentage of part-time Faculty					
	Asian %	Black, not Hispanic %	Mexican American/ Puerto Rican/ other Hispanic %	White, not Hispanic %	AiAN or NHPI	Unknown %
PhD Mathematics Departments						
All part-time men	8	2	2	47	0	4
SE	*0.4*	*0.2*	*0.2*	*0.8*	*0.1*	*0.3*
All part-time women	5	1	1	28	0	2
SE	*0.4*	*0.1*	*0.2*	*0.7*	*0.1*	*0.2*
MA Mathematics Departments						
All part-time men	5	3	4	38	0	7
SE	*0.6*	*0.4*	*0.6*	*1.4*	*0.1*	*0.6*
All part-time women	2	1	2	34	0	5
SE	*0.4*	*0.2*	*0.5*	*1.3*	*0.0*	*0.6*
BA Mathematics Departments						
All part-time men	3	3	1	45	0	4
SE	*0.3*	*0.4*	*0.2*	*1.0*	*0.1*	*0.4*
All part-time women	2	1	1	35	1	4
SE	*0.3*	*0.2*	*0.2*	*1.0*	*0.2*	*0.3*
All Statistics Departments						
All part-time men	11	2	1	55	0	3
SE	*1.9*	*0.8*	*0.4*	*3.4*	*0.0*	*0.7*
All part-time women	8	1	1	18	0	0
SE	*2.0*	*0.4*	*0.7*	*2.8*	*0.0*	*0.0*

TABLE FY.1	Percentage of sections taught by															Average Section Size			Enrollment (1000s)		
	Tenured/ tenure-eligible %			Other full-time %			Part-time %			Graduate teaching assistants %			Unknown %								
Course & Department Type	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA
Mainstream Calculus I																					
Lecture with separate recitation	28	32	75	48	26	18	12	24	1	7	4	0	5	14	6	98	45	26	93	40	12
SE	*3.6%*	*3.7%*	*4.8%*	*4.6%*	*6.2%*	*4.6%*	*2.6%*	*7.6%*	*1.3%*	*1.8%*	*1.6%*	*0.0%*	*1.7%*	*8.2%*	*3.9%*	*7.6*	*11.3*	*1.4*	*10.9*	*17.7*	*2.8*
Sections that meet as a class	26	62	72	31	26	8	12	7	10	27	0	0	3	5	10	32	30	23	39	18	51
SE	*2.8%*	*10.9%*	*4.4%*	*5.4%*	*9.5%*	*2.0%*	*4.6%*	*2.4%*	*1.6%*	*5.8%*	*0.0%*	*0.0%*	*1.5%*	*3.4%*	*3.6%*	*0.9*	*1.4*	*0.8*	*10.5*	*3.9*	*7.7*
Other sections	27	0	35	32	0	65	7	100	0	34	0	0	0	0	0	32	0	9	2	0	0
SE	*19.4%*	*.*	*63.4%*	*48.5%*	*.*	*63.4%*	*4.9%*	*.*	*0.0%*	*24.3%*	*.*	*0.0%*	*0.0%*	*.*	*0.0%*	*1.7*	*.*	*10.8*	*1.8*	*0.0*	*0.2*
Total Mainstream Calculus I	27	44	72	38	25	11	12	18	9	19	2	0	4	11	9	60	38	24	134	58	63
SE	*1.8%*	*6.3%*	*3.7%*	*4.1%*	*5.1%*	*1.9%*	*2.9%*	*5.4%*	*1.4%*	*4.2%*	*0.7%*	*0.0%*	*1.0%*	*4.4%*	*3.0%*	*5.0*	*6.8*	*0.8*	*13.6*	*16.5*	*8.2*
Mainstream Calculus II																					
Lecture with separate recitation	33	66	65	52	11	23	5	17	0	5	6	0	6	0	12	90	37	22	54	13	5
SE	*4.2%*	*7.9%*	*15.4%*	*4.2%*	*3.0%*	*10.6%*	*1.2%*	*8.2%*	*0.0%*	*1.3%*	*1.5%*	*0.0%*	*1.7%*	*0.0%*	*7.2%*	*5.5*	*4.5*	*1.9*	*9.3*	*2.9*	*1.5*
Sections that meet as a class	27	60	69	38	18	15	8	4	6	25	0	0	3	18	9	38	28	20	21	7	24
SE	*3.9%*	*10.0%*	*7.6%*	*4.0%*	*7.8%*	*4.8%*	*2.2%*	*2.3%*	*1.9%*	*4.9%*	*0.0%*	*0.0%*	*1.5%*	*8.8%*	*5.2%*	*2.7*	*3.0*	*1.1*	*5.9*	*2.1*	*4.5*
Other sections	38	NA	100	25	NA	0	0	NA	0	38	NA	0	0	NA	0	29	NA	10	1	0	0
SE	*.*	*.*	*0.0%*	*.*	*.*	*0.0%*	*.*	*.*	*0.0%*	*.*	*.*	*0.0%*	*.*	*.*	*0.0%*	*.*	*.*	*10.0*	*0.9*	*0.0*	*0.1*
Total Mainstream Calculus II	30	64	69	44	14	17	6	12	5	15	4	0	4	7	10	64	33	20	76	21	29
SE	*2.9%*	*5.7%*	*7.0%*	*2.1%*	*3.6%*	*5.0%*	*0.9%*	*5.1%*	*1.6%*	*3.3%*	*1.0%*	*0.0%*	*1.0%*	*4.1%*	*4.3%*	*3.9*	*3.1*	*1.0*	*8.5*	*3.9*	*5.2*
Total Mainstream Calculus I & II	28	50	71	40	22	13	10	16	7	18	3	0	4	10	9	62	37	23	210	79	92
SE	*2.0%*	*5.4%*	*4.5%*	*3.2%*	*4.3%*	*2.6%*	*1.8%*	*4.7%*	*1.2%*	*3.8%*	*0.8%*	*0.0%*	*1.0%*	*4.2%*	*3.2%*	*4.5*	*5.6*	*0.7*	*20.9*	*19.4*	*12.9*

TABLE FY.2	Percentage of sections taught by																				
	Tenured/ tenure-eligible %			Other full-time %			Part-time %			Graduate teaching assistants %			Unknown %			Average Section Size			Enrollment (1000s)		
Course & Department Type	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA
Non-Mainstream Calculus I																					
Lecture with separate recitation	25	33	56	51	23	44	14	44	0	2	0	0	8	0	0	96	56	19	26	3	1
SE	*4.6%*	*18.8%*	*51.6%*	*5.3%*	*9.2%*	*51.6%*	*4.0%*	*12.9%*	*0.0%*	*0.9%*	*0.0%*	*0.0%*	*4.5%*	*0.0%*	*0.0%*	*20.2*	*24.2*	*1.5*	*6.7*	*1.9*	*0.3*
Sections that meet as a class	15	38	39	16	32	29	10	24	30	47	0	0	13	6	2	38	32	29	29	14	17
SE	*4.1%*	*12.2%*	*7.0%*	*3.1%*	*9.9%*	*9.0%*	*3.5%*	*15.8%*	*7.1%*	*8.0%*	*0.0%*	*0.0%*	*6.1%*	*5.6%*	*2.3%*	*2.2*	*1.9*	*2.3*	*4.7*	*4.6*	*3.2*
Other sections	0	NA	NA	56	NA	NA	0	NA	NA	44	NA	NA	0	NA	NA	61	NA	NA	2	0	0
SE	*0.0%*	.	.	*34.3%*	.	.	*0.0%*	.	.	*34.3%*	.	.	*0.0%*	.	.	*37.3*	.	.	*0.7*	*0.0*	*0.0*
Total Non-Mainstream Calculus I	17	37	40	26	31	30	11	26	28	35	0	0	11	5	2	54	34	29	57	17	17
SE	*3.1%*	*10.1%*	*6.8%*	*4.2%*	*9.2%*	*8.7%*	*3.3%*	*13.8%*	*6.8%*	*6.2%*	*0.0%*	*0.0%*	*4.4%*	*5.1%*	*2.2%*	*2.6*	*2.6*	*2.2*	*8.9*	*4.6*	*3.1*
Total Non-Mainstream Calculus II, III, etc.	32	32	35	29	14	11	19	55	17	15	0	0	4	0	37	41	39	22	6	8	1
SE	*8.5%*	*19.0%*	*25.3%*	*9.5%*	*3.3%*	*12.6%*	*8.4%*	*22.0%*	*14.1%*	*7.5%*	*0.0%*	*0.0%*	*1.6%*	*0.0%*	*35.6%*	*6.1*	*3.9*	*7.7*	*1.6*	*4.0*	*0.6*
Total Non-Mainstream Calculus I, II, III, etc.	19	36	39	27	26	28	12	34	27	32	0	0	10	4	5	52	35	28	63	25	18
SE	*3.3%*	*11.2%*	*6.4%*	*3.8%*	*8.4%*	*8.6%*	*3.0%*	*17.2%*	*6.0%*	*6.0%*	*0.0%*	*0.0%*	*4.0%*	*3.7%*	*3.5%*	*2.9*	*2.9*	*2.5*	*10.2*	*7.7*	*3.3*

TABLE FY.3	Percentage of sections taught by															Average Section Size			Enrollment (1000s)		
	Tenured/ tenure-eligible %			Other full-time %			Part-time %			Graduate teaching assistants %			Unknown %								
Course & Mathematics Department Type	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA	PhD	MA	BA
Introductory Statistics (F1) (non-calculus)																					
Lecture with separate recitation	17	49	43	52	39	19	3	8	19	7	0	0	20	4	19	141	41	31	15	9	18
SE	*7.5%*	*10.2%*	*8.7%*	*9.2%*	*9.2%*	*3.4%*	*2.9%*	*5.4%*	*5.5%*	*2.4%*	*0.0%*	*0.0%*	*5.2%*	*4.2%*	*8.8%*	*24.5*	*10.1*	*2.5*	*4.6*	*3.1*	*3.2*
Sections that meet as a class	13	46	42	31	38	16	17	16	34	23	0	0	16	0	8	30	39	26	26	34	85
SE	*3.6%*	*6.2%*	*3.3%*	*8.5%*	*8.1%*	*2.4%*	*5.3%*	*4.6%*	*3.2%*	*8.4%*	*0.0%*	*0.2%*	*10.2%*	*0.5%*	*2.0%*	*4.2*	*3.7*	*1.0*	*4.7*	*9.0*	*10.4*
Other sections	9	NA	38	91	NA	49	0	NA	13	0	NA	0	0	NA	0	2	NA	12	0	0	0
SE	*66.1%*	*.*	*36.8%*	*66.1%*	*.*	*51.0%*	*0.0%*	*.*	*15.4%*	*0.0%*	*.*	*0.0%*	*0.0%*	*.*	*0.0%*	*18.5*	*.*	*7.9*	*0.0*	*0.0*	*0.2*
Total Introductory Statistics (non-calculus)	13	46	42	34	38	16	16	14	32	21	0	0	17	1	9	42	39	27	41	43	104
SE	*3.4%*	*5.0%*	*3.3%*	*7.1%*	*6.5%*	*2.2%*	*4.7%*	*3.8%*	*2.7%*	*6.9%*	*0.0%*	*0.1%*	*9.2%*	*1.1%*	*2.1%*	*3.7*	*3.5*	*0.9*	*5.4*	*9.1*	*11.1*
Introductory Statistics (F2) (calculus prerequisite for non-majors/minors)																					
Lecture with separate recitation	54	86	41	29	7	0	9	0	59	8	0	0	0	7	0	53	79	27	2	5	3
SE	*7.4%*	*15.1%*	*30.4%*	*13.0%*	*7.6%*	*0.0%*	*9.8%*	*0.0%*	*30.4%*	*6.9%*	*0.0%*	*0.0%*	*0.0%*	*7.6%*	*0.0%*	*5.2*	*17.0*	*3.2*	*1.2*	*2.1*	*1.6*
Sections that meet as a class	37	71	69	24	11	11	17	17	12	15	0	0	8	0	8	33	31	27	5	8	11
SE	*13.9%*	*9.1%*	*8.1%*	*10.2%*	*5.7%*	*9.2%*	*8.8%*	*13.5%*	*5.8%*	*10.3%*	*0.0%*	*0.0%*	*7.5%*	*0.0%*	*6.4%*	*3.4*	*4.0*	*2.1*	*1.9*	*4.0*	*3.6*
Other sections	100	0	100	0	NA	0	0	NA	0	0	NA	0	0	NA	0	34	NA	30	0	0	0
SE	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*.*	*0.3*	*0.0*	*0.1*
Total Introductory Statistics (calculus)	43	74	63	24	10	8	15	14	22	13	0	0	6	1	6	37	40	27	7	13	14
SE	*11.3%*	*6.9%*	*7.6%*	*6.6%*	*4.6%*	*7.2%*	*6.1%*	*9.4%*	*9.3%*	*6.9%*	*0.0%*	*0.0%*	*5.5%*	*1.5%*	*5.0%*	*2.5*	*6.2*	*1.7*	*2.8*	*3.0*	*4.1*
Statistics for Pre-service Teachers (F3,F4)	23	76	29	27	0	0	12	27	0	38	0	71	0	0	0	25	23	3	1	1	0
SE	*14.8%*	*22.8%*	*58.8%*	*21.4%*	*0.0%*	*0.0%*	*10.7%*	*25.5%*	*0.0%*	*12.7%*	*0.0%*	*58.8%*	*0.0%*	*0.0%*	*0.0%*	*2.1*	*4.6*	*8.8*	*0.3*	*0.2*	*0.1*
Probability & Statistics (non-Calculus) (F5)	46	32	27	0	34	31	54	13	29	0	0	0	0	21	13	34	38	31	3	2	6
SE	*28.3%*	*7.9%*	*12.5%*	*0.0%*	*15.3%*	*15.8%*	*28.3%*	*19.0%*	*11.8%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*6.2%*	*11.6%*	*11.0*	*16.6*	*3.3*	*2.1*	*1.2*	*1.7*
Total, all introductory statistics courses for non-majors	20	52	44	30	31	16	18	14	30	19	0	1	13	2	9	40	39	27	53	58	123
SE	*3.8%*	*5.0%*	*3.1%*	*6.3%*	*5.1%*	*2.2%*	*3.9%*	*3.5%*	*2.8%*	*6.0%*	*0.0%*	*0.4%*	*6.9%*	*1.4%*	*2.1%*	*3.3*	*2.6*	*0.8*	*8.0*	*11.6*	*12.9*

TABLE FY.4	Percentage of sections taught by															
	Tenured/ tenure-eligible %		Other full-time (with PhD) %		Other full-time (without PhD) %		Part-time %		Graduate teaching assistants %		Unknown %		Average Section Size		Enrollment (1000s)	
Course & Statistics Department Type	PhD	MA	PhD	MA	PhD	MA	PhD	MA	PhD	MA	PhD	MA	PhD	MA	PhD	MA
Introductory Statistics (non-Calculus for non-majors/minors) (E1)																
Lecture with separate recitation	6	8	9	26	9	18	6	21	38	3	32	26	57	96	35	5
SE	*1.1%*	*2.4%*	*1.1%*	*11.2%*	*1.0%*	*3.4%*	*1.1%*	*4.6%*	*4.4%*	*1.6%*	*4.2%*	*11.0%*	*3.7*	*20.5*	*1.5*	*0.9*
Sections that meet as a class	17	40	16	4	9	35	11	15	41	1	6	5	66	53	18	7
SE	*2.4%*	*7.4%*	*2.4%*	*2.3%*	*1.2%*	*8.2%*	*1.9%*	*4.4%*	*4.3%*	*0.6%*	*0.8%*	*2.9%*	*3.0*	*6.9*	*1.4*	*1.4*
Other sections	0	NA	3	.	3	NA	42	NA	52	NA	0	NA	20	NA	1	0
SE	*0.0%*	*.*	*13.5%*	*.*	*12.1%*	*.*	*4.1%*	*.*	*21.4%*	*.*	*0.0%*	*.*	*2.1*	*.*	*0.4*	*0.0*
Total Introductory Statistics (non-Calculus)	9	31	11	10	9	30	9	16	40	1	23	11	58	65	54	12
SE	*1.0%*	*6.3%*	*1.0%*	*3.0%*	*0.8%*	*5.5%*	*1.2%*	*3.1%*	*2.9%*	*0.6%*	*2.9%*	*3.9%*	*2.6*	*7.6*	*1.6*	*1.4*
Introductory Statistics (calculus prerequisite for non-majors/minors) (E2)																
Lecture with separate recitation	14	17	24	17	7	8	12	0	16	0	27	58	73	57	10	1
SE	*2.7%*	*17.6%*	*3.9%*	*5.9%*	*0.9%*	*8.8%*	*3.4%*	*0.0%*	*2.3%*	*0.0%*	*6.2%*	*29.2%*	*8.5*	*2.2*	*1.0*	*0.3*
Sections that meet as a class	31	41	22	0	6	48	8	4	31	0	0	7	54	68	5	2
SE	*4.2%*	*11.9%*	*3.3%*	*0.0%*	*1.0%*	*10.5%*	*1.2%*	*1.9%*	*2.5%*	*0.0%*	*0.0%*	*4.4%*	*8.5*	*19.3*	*0.5*	*0.7*
Other sections	5	NA	33	NA	2	NA	0	NA	60	NA	0	NA	26	NA	1	0
SE	*9.9%*	*.*	*9.9%*	*.*	*5.0%*	*.*	*0.0%*	*.*	*24.8%*	*.*	*0.0%*	*.*	*11.8*	*.*	*0.4*	*0.0*
Total Introductory Statistics (Calculus)	18	33	25	5	6	36	9	3	29	0	14	23	59	65	16	3
SE	*2.4%*	*9.0%*	*2.2%*	*1.9%*	*0.9%*	*6.9%*	*1.8%*	*1.3%*	*3.3%*	*0.0%*	*3.7%*	*9.3%*	*4.5*	*11.9*	*1.2*	*0.7*
Statistics for Pre-service Teachers (E3,E4)	100	0	0	0	0	100	0	0	0	0	0	0	36	5	0	0
SE	*0.0%*	*.*	*0.0%*	*.*	*0.0%*	*.*	*0.0%*	*.*	*0.0%*	*.*	*0.0%*	*.*	*0.0*	*.*	*0.0*	*0.0*
Probability & Statistics (non-Calculus) (E5)	6	0	19	0	6	0	3	100	33	0	33	0	102	40	4	0
SE	*2.6%*	*.*	*2.6%*	*.*	*3.6%*	*.*	*1.6%*	*.*	*4.0%*	*.*	*4.3%*	*.*	*18.4*	*.*	*0.7*	*0.0*
Total, all introductory probability & statistics courses	11	31	14	9	8	32	9	14	37	1	21	13	59	65	74	15
SE	*1.0%*	*6.1%*	*1.1%*	*2.4%*	*0.7%*	*4.8%*	*1.1%*	*2.6%*	*2.4%*	*0.4%*	*2.8%*	*4.2%*	*2.7*	*6.7*	*2.3*	*1.8*

TABLE FY.5	Mathematics Departments							
	Univ (PhD)	*SE*	Univ (MA)	*SE*	College (BA)	*SE*	All Depts. Combined	*SE*
Percentage of departments that offer introductory statistics course with no calculus prerequisite	50	*4.4*	78	*5.5*	83	*5.8*	78	*3.9*
Number of different kinds of introductory statistics courses for non-majors with no calculus prerequisite								
1	61	*11.9*	69	*10.0*	74	*6.6*	72	*5.4*
2	35	*11.9*	23	*8.5*	23	*6.5*	24	*5.2*
3	4	*3.1*	4	*1.8*	2	*1.1*	3	*0.9*
More than 3	.	.	4	*3.8*	0	*0.4*	1	*0.6*
Of those that offer the course, the percentage of departments in which the majority of sections use real data for the following percentages of class sessions:								
0-20%	21	*8.4*	29	*14.0*	28	*7.6*	28	*6.0*
21-40%	13	*12.0*	31	*7.0*	23	*5.5*	23	*4.3*
41-60%	26	*7.4*	19	*8.0*	18	*4.4*	19	*3.5*
61-80%	12	*4.5*	2	*1.6*	14	*4.4*	12	*3.4*
81-100%	29	*7.9*	18	*5.4*	18	*4.8*	19	*3.9*
Percentage of departments where the majority of sections use in-class demonstrations in the following percentages of class sessions:								
0-20%	21	*8.7*	23	*14.3*	18	*3.9*	19	*3.6*
21-40%	26	*12.3*	17	*7.2*	22	*5.9*	22	*4.8*
41-60%	20	*7.3*	33	*9.0*	21	*3.5*	23	*2.9*
61-80%	16	*4.9*	17	*5.4*	17	*5.1*	17	*4.0*
81-100%	18	*6.4*	9	*4.8*	21	*4.0*	19	*3.2*
Percentage of departments using the following kinds of technology in the majority of sections:								
Graphing calculators	57	*9.3*	77	*9.0*	66	*5.7*	67	*4.7*
Statistical packages	48	*12.8*	64	*10.4*	45	*6.6*	48	*5.5*
Educational software	29	*6.6*	55	*6.7*	52	*5.9*	50	*4.8*
Applets	16	*8.8*	30	*12.9*	24	*4.8*	24	*4.2*
Spreadsheets	66	*10.8*	72	*9.6*	67	*5.9*	68	*4.6*
Web-based resources	42	*8.9*	65	*8.7*	49	*6.5*	50	*5.2*
Classroom response systems	4	*3.3*	12	*5.6*	6	*3.0*	6	*2.4*
Online textbooks	41	*7.9*	48	*9.9*	39	*6.3*	41	*5.1*
Online videos	26	*7.7*	32	*10.0*	32	*5.4*	31	*4.5*
Percentage of departments where the majority of sections require assessments beyond homework, exams, and quizzes	19	*5.4*	22	*8.1*	45	*5.8*	39	*4.9*

TABLE FY.6	Statistics Departments					
	Univ (PhD)	*SE*	Univ (MA)	*SE*	All Depts. Combined	*SE*
Percentage of departments that offer Introductory Statistics for non-majors/minors with no calculus prerequisite	97	*1.6*	85	*5.1*	94	*1.7*
Number of different kinds of introductory statistics courses for non-majors with no calculus prerequisite						
1	17	*2.9*	38	*6.9*	23	*2.8*
2	26	*3.1*	23	*6.0*	26	*2.8*
3	21	*2.8*	23	*6.0*	22	*2.6*
More than 3	35	*3.1*	15	*5.1*	30	*2.6*
Of those that offer the course, the percentage of departments in which the majority of sections use real data the following percentages of the time:						
0-20%	14	*2.9*	20	*6.6*	15	*2.7*
21-40%	12	*2.2*	20	*6.6*	14	*2.2*
41-60%	16	*1.8*	10	*5.0*	15	*1.7*
61-80%	16	*2.9*	40	*8.1*	21	*2.9*
81-100%	42	*3.4*	10	*5.0*	35	*2.9*
Percentage of departments where the majority of sections use in-class demonstrations in the following percentages of class sessions:						
0-20%	8	*2.1*	30	*7.6*	13	*2.3*
21-40%	18	*2.9*	40	*8.1*	23	*2.9*
41-60%	24	*3.0*	10	*5.0*	21	*2.6*
61-80%	7	*0.9*	.	.	5	*0.7*
81-100%	44	*3.2*	20	*6.6*	39	*2.9*
Percentage of departments using following kinds of technology in the majority of sections						
Graphing calculators	46	*3.5*	50	*7.4*	47	*3.2*
Statistical packages	65	*3.1*	75	*6.4*	68	*2.8*
Educational software	53	*3.5*	55	*7.8*	53	*3.2*
Applets	45	*3.6*	27	*7.0*	41	*3.2*
Spreadsheets	52	*3.5*	64	*7.5*	55	*3.2*
Web-based resources	74	*2.7*	45	*7.8*	68	*2.7*
Classroom response systems	55	*3.6*	33	*7.0*	50	*3.2*
Online textbooks	51	*3.5*	45	*7.8*	50	*3.2*
Online videos	38	*3.5*	27	*7.0*	35	*3.1*
Percentage of departments where the majority of sections require assessments beyond homework, exams, and quizzes	35	*3.5*	25	*6.4*	32	*3.1*

TABLE FY.7	Mathematics Depts				Statistics Depts		
	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total
Conditional probability	92	90	72	76	85	75	83
SE	*5.5*	*5.2*	*4.7*	*3.7*	*2.5*	*6.4*	*2.5*
Simulation to explore randomness	50	84	45	51	76	67	73
SE	*12.5*	*6.3*	*5.0*	*4.3*	*2.6*	*7.0*	*2.6*
Resampling techniques	9	34	21	22	50	8	39
SE	*5.0*	*5.2*	*6.4*	*5.1*	*3.6*	*4.1*	*2.9*

TABLE FY.8	No graduate degree in statistics	Masters degree in statistics	PhD degree in statistics
Mathematics Departments			
Univ (PhD)	52	29	18
SE	*10.3*	*9.9*	*7.8*
Univ (MA)	48	35	17
SE	*8.3*	*7.2*	*5.1*
Coll (BA)	68	18	14
SE	*5.6*	*5.6*	*4.3*
Total Math Depts	64	21	15
SE	*4.5*	*4.4*	*3.5*

TABLE FY.9	Mathematics Depts				Statistics Depts		
	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total
Average estimated outside enrollment	710	196	68	134	306	496	328
SE	*114.6*	*35.4*	*6.8*	*17.2*	*34.4*	*124.0*	*32.6*
Estimated outside national enrollment	34369	20217	34988	89574	6038	1296	7334
SE	*8830.9*	*4938.4*	*4723.2*	*11166.1*	*724.3*	*465.7*	*861.1*

TABLE TYE.2	2015	*SE*
Mathematics & Statistics enrollments in TYCs	2,012,000	*118,000.0*

TABLE TYE.3

Course Number	Type of course	2015	*SE*
	Precollege level		
1	Arithmetic & Basic Mathematics	71	*14.1*
2	Pre-algebra	127	*16.3*
3	Elementary Algebra (High School level)	277	*26.9*
4	Intermediate Algebra (High School level)	299	*29.8*
5	Geometry (High School level)	8	*3.0*
	Precalculus level		
6	College Algebra (above Intermediate Algebra)	292	*29.0*
7	Trigonometry	51	*6.7*
8	College Algebra & Trigonometry (combined)	13	*2.7*
9	Introduction to Mathematical Modeling	2	*1.3*
10	Precalculus/Elem Functions/Analytic Geometry	87	*13.3*
	Calculus level		
11	Mainstream Calculus I	66	*6.5*
12	Mainstream Calculus II	34	*3.8*
13	Mainstream Calculus III	19	*2.2*
14	Non-mainstream Calculus I	26	*7.1*
15	Non-mainstream Calculus II	0	*0.1*
16	Differential Equations	7	*1.3*
	Other mathematics courses		
17	Linear Algebra	7	*1.1*
18	Discrete Mathematics	5	*2.1*
19	Elementary Statistics (with or w/o Probability)	251	*54.9*
20	Probability (with or w/o Statistics)	28	*15.3*
21	Finite Mathematics	40	*19.4*
22	Mathematics for Liberal Arts	97	*14.0*
23	Mathematics for Elementary School Teachers I	12	*1.8*
24	Mathematics for Elementary School Teachers II	3	*0.9*
25	Other Mathematics Courses for Teacher Preparation	1	*0.5*
26	Business Mathematics (not transferable)	16	*3.8*
27	Business Mathematics (transferable)	10	*2.8*
28	Technical Math (non-calculus-based)	21	*4.7*
29	Technical Math (calculus-based)	3	*1.7*
30	Other Mathematics Courses (not transferable)	31	*8.8*
31	Other Mathematics Courses (transferable)	12	*4.6*
	Total all Two-year College math courses	1918	*114.6*

TABLE TYE.4

Course numbers	Type of course	2015	*SE*
1-5	Precollege Level	782 (41%)	*64.7*
6-10	Precalculus Level	445 (23%)	*39.4*
11-16	Calculus Level	152 (8%)	*15.2*
19-20	Statistics, Probability	280 (15%)	*59.6*
17-18 & 21-31	Remaining Courses	259 (13%)	*31.2*
1-31	Total, all courses	1918 (100%)	*114.6*

TABLE TYE.5

Course number	Type of course	Fall 2010	*SE*
1	Arithmetic & Basic Mathematics	36	*4.8*
2	Pre-algebra	44%	*4.8*
3	Elementary Algebra (High School level)	75%	*5.3*
4	Intermediate Algebra (High School level)	72%	*4.6*
5	Geometry (High School level)	8%	*1.5*
6	College Algebra (above Intermediate Algebra)	79%	*4.1*
7	Trigonometry	57%	*4.9*
8	College Algebra & Trigonometry (combined)	20%	*4.4*
9	Introduction to Mathematical Modeling	5%	*2.7*
10	Precalculus/ Elementary Functions/ Analytic Geometry	54%	*6.3*
11	Mainstream Calculus I	80%	*6.3*
12	Mainstream Calculus II	65%	*3.8*
13	Mainstream Calculus III	54%	*4.3*
14	Non-mainstream Calculus I	26%	*4.4*
15	Non-mainstream Calculus II	0%	*0.2*
16	Differential Equations	25%	*3.7*
17	Linear Algebra	24%	*3.9*
18	Discrete Mathematics	12%	*2.4*
19	Elementary Statistics (with or w/o Probability)	83%	*5.8*
20	Probability (with or w/o Statistics)	5%	*2.8*
21	Finite Mathematics	23%	*4.6*
22	Mathematics for Liberal Arts	62%	*5.1*
23	Mathematics for Elementary School Teachers I	41%	*5.4*
24	Mathematics for Elementary School Teachers II	17%	*3.7*
25	Other Mathematics Courses for Teacher Preparation	4%	*2.0*
26	Business Mathematics (not transferable)	25%	*5.4*
27	Business Mathematics (transferable)	12%	*3.0*
28	Technical Mathematics (non-calculus-based)	38%	*4.5*
29	Technical Mathematics (calculus-based)	9%	*3.3*
30	Other Mathematics Courses (not transferable)	23%	*4.8*
31	Other Mathematics Courses (transferable)	10%	*3.0*

TABLE TYE.6		Percentage of two-year colleges teaching course	
Course number	Type of course	2015	*SE*
11	Mainstream Calculus I	80	*6.3*
16	Differential Equations	25	*3.7*
17	Linear Algebra	24	*3.9*
18	Discrete Mathematics	12	*2.4*
19	Elementary Statistics (with or w/o Probability)	83	*5.8*
21	Finite Mathematics	23	*4.6*
22	Mathematics for Liberal Arts	62	*5.1*
23	Mathematics for Elementary School Teachers I	41	*5.4*
28	Technical Mathematics (non-calculus-based)	38	*4.5*
29	Technical Mathematics (calculus-based)	9	*3.3*

TABLE TYE.7		2015			
Course numbers	Type of course	Average section size	SE	Percentage of sections with size > 30	*SE*
1-5	Precollege Level	19.2	*4.2*	19%	*4.6*
6-10	Precalculus Level	24.7	*0.8*	31%	*3.7*
11-16	Calculus Level	25.4	*0.9*	34%	*4.1*
19-20	Elem. Statistics, Probability	25.5	*4.8*	33%	*8.7*
1-31	Total, all courses	21.7	*2.1*	25%	*3.1*

TABLE TYE.7.1					
Course number	Type of course	2015 average section size	*SE*	Percentage of 2015 departments with average size > 30	*SE*
1-5	Precollege Level	22.6	*1.3*	18%	*3.9*
6-10	Precalculus Level	20.1	*0.9*	9%	*2.8*
11-16	Calculus Level	18.7	*3.5*	18%	*10.3*
19-20	Statistics, Probability	22.5	*1.3*	21%	*4.8*
1-31	Total, all courses	20.7	*0.7*	17%	*3.5*

TABLE TYE.8

Course number	Type of course	Average section size	*SE*	Course number	Type of course	Average section size	*SE*
1	Arithmetic & Basic Mathematics	20	*1.4*	17	Linear Algebra	23	*1.6*
2	Pre-algebra	24	*1.4*	18	Discrete Mathematics	27	*1.7*
3	Elementary Algebra (High School level)	23	*0.9*	19	Elementary Statistics (with or w/o Probability)	25	*5.1*
4	Intermediate Algebra (High School level)	15	*8.9*	20	Probability (with or w/o Statistics)	35	*11.2*
5	Geometry (High School level)	30	*3.5*	21	Finite Mathematics	28	*1.8*
6	College Algebra (above Intermediate Algebra)	25	*0.9*	22	Mathematics for Liberal Arts	20	*4.5*
7	Trigonometry	24	*1.3*	23	Mathematics for Elementary School Teachers I	19	*1.1*
8	College Algebra & Trigonometry (combined)	25	*2.5*	24	Mathematics for Elementary School Teachers II	19	*1.6*
9	Introduction to Mathematical Modeling	10	*3.2*	25	Other Mathematics Courses for Teacher Preparation	16	*3.2*
10	Precalculus/Elem Functions/Analytic Geometry	26	*1.3*	26	Business Math (not transferable)	19	*2.0*
11	Mainstream Calculus I	26	*1.1*	27	Business Math (transferable)	24	*2.0*
12	Mainstream Calculus II	26	*1.1*	28	Technical Math (non-calculus-based)	15	*1.8*
13	Mainstream Calculus III	24	*1.5*	29	Technical Math (calculus-based)	20	*6.3*
14	Non-mainstream Calculus I	26	*1.4*	30	Other Mathematics Courses (not transferable)	22	*2.8*
15	Non-mainstream Calculus II	26	.	31	Other Mathematics Courses (transferable)	21	*3.2*
16	Differential Equations	22	*1.5*				

TABLE TYE.8.1

Course number	Type of course	Average section size	*SE*	Course number	Type of course	Average section size	*SE*
1	Arithmetic & Basic Mathematics	18	*2.1*	17	Linear Algebra	17	*10.9*
2	Pre-algebra	20	*3.1*	18	Discrete Mathematics	24	*0.9*
3	Elementary Algebra (High School level)	23	*1.3*	19	Elementary Statistics (with or w/o Probability)	19	*3.0*
4	Intermediate Algebra (High School level)	22	*1.4*	20	Probability (with or w/o Statistics)	26	*14.1*
5	Geometry (High School level)	NA	.	21	Finite Mathematics	23	*1.6*
6	College Algebra (above Intermed. Alg.)	20	*1.4*	22	Mathematics for Liberal Arts	20	*3.4*
7	Trigonometry	15	*2.5*	23	Mathematics for Elementary School Teachers I	14	*2.4*
8	College Algebra & Trigonometry (combined)	13	*3.0*	24	Mathematics for Elementary School Teachers II	13	*2.5*
9	Introduction to Mathematical Modeling	23	*7.0*	25	Other Mathematics Courses for Teacher Preparation	NA	.
10	Precalculus/Elem Functions/Analytic Geometry	20	*1.5*	26	Business Math (not transferable)	19	*2.3*
11	Mainstream Calculus I	17	*2.4*	27	Business Math (transferable)	18	*3.2*
12	Mainstream Calculus II	14	*3.0*	28	Technical Math (non-calculus-based)	16	*1.9*
13	Mainstream Calculus III	11	*5.1*	29	Technical Math (calculus-based)	27	.
14	Non-mainstream Calculus I	24	*2.7*	30	Other Mathematics Courses (not transferable)	17	*2.1*
15	Non-mainstream Calculus II	NA	.	31	Other Mathematics Courses (transferable)	21	*2.1*
16	Differential Equations	17	.				

TABLE TYE.9		2015					
Course number	Type of course	Number of sections	*SE*	Number of sections taught by part-time faculty	*SE*	Percentage of sections taught by part-time faculty	*SE*
1-5	Precollege level	36108	*6792.6*	16515	*1716.5*	46%	*9.6*
6-10	Precalculus level	15793	*1369.8*	5173	*744.1*	33%	*2.9*
11-13	Mainstream Calculus	4396	*351.3*	666	*111.3*	15%	*2.2*
14-15	Non-mainstream Calculus	882	*223.5*	254	*61.7*	29%	*10.2*
16-18	Advanced level	761	*98.6*	62	*24.0*	8%	*2.9*
19-20	Statistics, Probability	9661	*1838.1*	1977	*217.5*	21%	*4.8*
21-27	Service courses	7014	*1325.3*	2053	*295.8*	29%	*5.0*
28-29	Technical mathematics	1433	*287.5*	501	*170.4*	35%	*9.9*
30-31	Other mathematics courses	1845	*647.9*	813	*294.8*	44%	*8.0*
1-31	Total, all courses	77893	*7814.8*	28014	*2771.6*	36%	*3.9*

TABLE TYE.10		Percentage of sections taught that					
Course Number	Type of course	Have common Department exams %	*SE*	Use a Homework Management system %	*SE*	Total number of on-campus sections in fall 2015	*SE*
1	Arithmetic & Basic Mathematics	67	*9.7*	72	*8.7*	3070	*638.0*
2	Pre-algebra	64	*6.8*	80%	*4.8*	4986	*704.9*
3	Elementary Algebra (High School level)	61	*5.1*	68%	*5.5*	10198	*963.3*
4	Intermediate Algebra (High School level)	38	*20.4*	43%	*23.2*	17580	*6488.9*
5	Geometry (High School level)	45	*21.5*	32%	*16.6*	274	*96.5*
6	College Algebra (above Intermed. Algebra)	49	*5.7*	68%	*4.3*	10333	*1077.8*
7	Trigonometry	19	*4.0*	53%	*5.2*	1900	*209.6*
8	College Algebra & Trigonometry (combined)	15	*9.3*	50%	*10.3*	499	*120.6*
9	Introduction to Mathematical Modeling	5	*5.8*	47%	*48.7*	116	*65.1*
10	Precalculus/Elem Functions/Analytic Geometry	31	*9.4*	61%	*7.7*	2947	*427.9*
11	Mainstream Calculus I	12	*2.8*	36%	*4.1*	2405	*206.0*
12	Mainstream Calculus II	14	*3.7*	32%	*5.1*	1241	*112.5*
13	Mainstream Calculus III	14	*5.0*	33%	*6.0*	749	*79.9*
14	Non-mainstream Calculus I	9	*4.0*	66%	*13.1*	880	*223.5*
15	Non-mainstream Calculus II	0	.	0%	.	2	*2.2*
16	Differential Equations	5	*3.1*	25%	*6.7*	311	*49.0*
17	Linear Algebra	4	*2.2*	22%	*7.0*	280	*38.9*
18	Discrete Mathematics	6	*4.8*	13%	*8.2*	169	*62.2*
19	Elementary Statistics (with or w/o Probability)	39	*14.1*	55%	*12.0*	8915	*1671.8*
20	Probability (with or w/o Statistics)	65	*58.6*	65%	*58.6*	745	*462.7*
21	Finite Mathematics	10	*3.7*	77%	*17.7*	1291	*612.5*
22	Mathematics for Liberal Arts	43	*16.1*	57%	*12.3*	3996	*1015.3*
23	Mathematics for Elementary School Teachers I	27	*7.5*	30%	*6.1*	514	*88.8*
24	Mathematics for Elementary School Teachers II	32	*13.5*	48%	*12.1*	118	*28.3*
25	Other Mathematics Courses for Teacher Preparation	42	*42.2*	79%	*23.3*	51	*26.5*
26	Business Math (not transferable)	24	*9.8*	38%	*10.5*	670	*146.7*
27	Business Math (transferable)	14	*12.3*	23%	*8.9*	373	*101.6*
28	Technical Math (non-calculus-based)	41	*10.9*	48%	*9.5*	1265	*283.1*
29	Technical Math (calculus-based)	13	*11.6*	47%	*17.2*	168	*57.8*
30	Other Mathematics Courses (not transferable)	58	*16.0*	75%	*10.7*	1348	*431.6*
31	Other Mathematics Courses (transferable)	21	*13.8*	79%	*16.5*	497	*249.9*

TABLE TYE.11	Percentage					
Pathways course	Yes	*SE*	No	*SE*	Fall 2015 Enrollment	*SE*
Implememted a Pathways course sequence	58	*5.1*	42	*5.1*		
Implemented Pathways course in:						
a. Foundations	51	*7.2*	49	*7.2*	76338	*18490.4*
b. Quantative Reasoning/Literacy	59	*8.2*	41	*8.2*	45203	*12093.0*
c. Statistics	63	*6.2*	37	*6.2*	56342	*11787.2*
d. Other	32	*9.2*	68	*9.2*	14631	*5345.3*

TABLE TYE.11.1									
Area of change and activity		Pre-College: Arithmetic, Pre-Algebra, Beginning Algebra, Intermediate Algebra	*SE*	Statistics	*SE*	College-Level Non-STEM: College Algebra, Math for Liberal Arts, Finite Math, Quantitative Reasoning	*SE*	College-Level STEM: College Algebra/ Trigonometry, Precalculus, Calculus and above	*SE*
Content									
i)	Students collect, organize, and analyze real data	12	*4.1*	36%	*4.8*	20	*5.3*	13	*3.3*
ii)	Student solves contextually-based problems/applications	26	*5.2*	31%	*4.7*	34	*6.3*	38	*5.1*
iii)	Course includes modeling	15	*4.6*	21%	*4.2*	23	*3.9*	29	*6.3*
iv)	Course focuses on quantitative reasoning	27	*5.1*	23%	*4.3*	36	*6.1*	16	*4.0*
v)	Course has less symbol manipulation and more emphasis on conceptual understanding	19	*4.4*	23%	*4.6*	28	*4.4*	8	*2.9*
Delivery Methods									
i)	Emporium model	33	*4.7*	2%	*1.0*	5	*1.7*	6	*2.6*
ii)	Students complete prescribed modules	36	*5.3*	4%	*2.2*	3	*1.1*	7	*2.7*
iii)	Flipped Classroom	16	*3.2*	9%	*2.9*	16	*4.5*	15	*3.8*
iv)	Accelerated pace	43	*6.5*	6%	*2.4*	6	*1.6*	6	*1.8*
v)	Slower pace	11	*3.3*	1%	*0.5*	5	*2.0*	2	*1.9*
Instructional Strategies routinely include:									
i)	Group work	35	*5.9*	30%	*4.1*	35	*5.2*	24	*3.7*
ii)	Use of handheld devices	15	*4.0*	26%	*4.7*	25	*4.1*	26	*5.3*
iii)	Use of computer programs or internet	46	*6.6*	31%	*4.6*	36	*5.7*	34	*5.4*
iv)	Use of Excel spreadsheets	9	*2.9*	31%	*3.5*	18	*4.3*	5	*1.6*
v)	Guided questioning and less lecturing	27	*5.0*	17%	*4.0*	26	*5.5*	19	*3.3*
vi)	Active learning strategies	38	*4.0*	33%	*4.1*	42	*5.1*	33	*4.3*

TABLE TYE.12		2015		2015		2015	
Course Number	Type of course	Total Enrollments (1000s)	*SE*	Distance Enrollments (1000s)	*SE*	Percentage Distance Enrollments	*SE*
1	Arithmetic & Basic Mathematics	71	*14.1*	9	*4.1*	13%	*5.3*
2	Pre-algebra	127	*16.3*	9	*2.4*	7%	*1.7*
3	Elementary Algebra (High School level)	277	*26.9*	38	*9.9*	14%	*2.7*
4	Intermediate Algebra (High School level)	299	*29.8*	33	*4.6*	11%	*1.0*
5	Geometry (High School level)	8	*3.0*	0	*0.0*	0%	*0.0*
6	College Algebra (above Intermed. Algebra)	292	*29.0*	38	*5.5*	13%	*1.4*
7	Trigonometry	51	*6.7*	4	*0.9*	9%	*1.6*
8	College Algebra & Trigonometry (combined)	13	*2.7*	1	*0.3*	7%	*2.5*
9	Introduction to Mathematical Modeling	2	*1.3*	1	*0.7*	46%	*8.1*
10	Precalculus/ Elementary Functions/ Analytic Geometry	87	*13.3*	10	*2.8*	12%	*2.3*
11	Mainstream Calculus I	66	*6.5*	4	*0.9*	6%	*1.3*
12	Mainstream Calculus II	34	*3.8*	2	*0.5*	5%	*1.2*
13	Mainstream Calculus III	19	*2.2*	1	*0.4*	4%	*1.9*
14	Non-mainstream Calculus I	26	*7.1*	3	*1.1*	13%	*3.6*
15	Non-mainstream Calculus II	0	*0.1*	0	*0.0*	0%	.
16	Differential Equations	7	*1.3*	0	*0.1*	1%	*1.1*
17	Linear Algebra	7	*1.1*	0	*0.3*	6%	*4.9*
18	Discrete Mathematics	5	*2.1*	1	*0.4*	13%	*6.0*

TABLE TYE.12		2015		2015		2015	
Course Number	Type of course	Total Enrollments (1000s)	*SE*	Distance Enrollments (1000s)	*SE*	Percentage Distance Enrollments	*SE*
19	Elementary Statistics (with or w/o Probability)	251	*54.9*	31	*4.2*	12%	*3.8*
20	Probability (with or w/o Statistics)	28	*15.3*	2	*1.5*	9%	*3.4*
21	Finite Mathematics	40	*19.4*	4	*1.5*	11%	*3.8*
22	Math for Liberal Arts	97	*14.0*	19	*4.0*	19%	*2.5*
23	Mathematics for Elementary School Teachers I	12	*1.8*	2	*0.5*	17%	*4.1*
24	Mathematics for Elementary School Teachers II	3	*0.9*	1	*0.4*	32%	*6.6*
25	Other Mathematics Courses for Teacher Preparation	1	*0.5*	0	*0.0*	0%	*0.0*
26	Business Math (not transferable)	16	*3.8*	3	*1.5*	21%	*7.4*
27	Business Math (transferable)	10	*2.8*	1	*0.4*	11%	*2.9*
28	Technical Math (non-calculus)	21	*4.7*	3	*0.8*	12%	*3.5*
29	Technical Math (calculus)	3	*1.7*	0	*0.2*	6%	*4.5*
30	Other Math Courses (not transferable)	31	*8.8*	2	*0.9*	7%	*3.1*
31	Other Math Courses (transferable)	12	*4.6*	1	*0.5*	13%	*6.2*
	Total Enrollments	1918	*114.6*	225	*24.7*	12%	*1.0*

TABLE TYE.12.1	Percent	*SE*
A. Award transfer credit for distance learning not taught by faculty at your instituion		
a. Yes	58	*5.1*
b. No	42	*5.1*
B. Limit distance learning credits that can be counted toward graduation		
a. Yes	1	*0.5*
b. No	99	*0.5*
C. Department taught distance learning courses in 2013-2015		
a. Yes	87	*4.1*
b. No	13	*4.1*
D. Instructional materials created by:		
a. Faculty	14	*4.4*
b. Commercially produced materials	19	*3.9*
c. Combination of both	67	*5.2*
E. Format of majority of distance learning		
a. Complete online	69	*5.7*
b. Hybrid	22	*5.0*
c. Other	8	*4.0*
F. Requirements of distance learning faculty to meet with students		
a. Never	5	*2.0*
b. For scheduled meetings	12	*3.2*
c. Specified office hours per week	32	*6.6*
d. Not applicable	51	*8.1*
G. How distance learning students take majority of tests		
a. Not monitored	11	*3.7*
b. Online, but using monitoring technology	10	*3.5*
c. At monitored testing site	47	*5.1*
d. Combination of above	32	*6.0*
H. Distance learning practices		
a. Same exams as in face-to-face	67	*5.0*
b. Same outlines as in face-to-face	97	*2.6*
c. Same course projects	77	*4.5*
d. More course projects than in non-distance learning course	12	*3.6*
I. Distance learning instructors evaluated in same way		
a. Yes	93	*3.1*
b. No	7	*3.1*

TABLE TYE.12.2

Type of course	No challenge	*SE*	Somewhat of a challenge	*SE*	Somewhat of a challenge	*SE*
A. Maintaining a standard and reliable network/user platform.	54	*6.3*	38	*6.2*	8	*2.4*
B. Maintaining a level of rigor in distance learning mathematics courses equivalent to courses offered face-to-face.	42	*4.3*	41	*4.7*	17%	*4.7*
C. Faculty knowledge about technology.	56	*6.3*	35	*6.0*	8%	*5.1*
D. Student success rates in online distance mathematics courses are lower than face-to-face courses with similar content.	22	*5.7*	38	*5.7*	40%	*5.5*
E. Student success rates in online distance mathematics courses are higher than face-to-face courses with similar content.	62	*6.0*	33	*6.3*	4%	*2.2*

TABLE TYE.13

Opportunity/Service	2015	*SE*
A. Diagnostic or placement testing	94%	*2.7*
a. Colleges that usually require placement tests of first-time enrollees	78%	*4.3*
b. Colleges that periodically assess the effectiveness of their placement tests	79%	*3.8*
B. Advising by a member of the mathematics faculty	49%	*5.7*
C. Opportunities to compete in mathematics contests	40%	*4.7*
D. Honors sections	28%	*4.2*
E. Mathematics club	32%	*4.7*
F. Special mathematics programs to encourage minorities	15%	*3.1*
G. Lectures/colloquia for students, not part of math club	21%	*4.1*
H. Special mathematics programs to encourage women	15%	*3.2*
I. K-12 outreach opportunities	46%	*4.4*
J. Undergraduate research opportunities	17%	*3.3*
K. Independent mathematics studies	41%	*5.6*
L. Other	5%	*3.5*

TABLE TYE.14		Enrollment (in 1000s)	
Course Number	Type of course	2015	*SE*
1-2	Arithmetic & Basic Math, Pre-algebra	38	*10.7*
3	Elementary Algebra (High School level)	36	*9.7*
4	Intermediate Algebra (High School level)	27	*9.6*
19-20	Elementary Statistics, Probability	13	*2.2*
26-27	Business Mathematics	7	*4.0*
28-29	Technical Mathematics	8	*2.3*
	Total	129	*23.9*

TABLE TYE.15		Mathematics Enrollment (in 1000s) in Other Programs							
Course Number	Type of course	Developmental Education Dept/Division	*SE*	Occupational Programs	*SE*	Business	*SE*	Other Depts/ Divisions	*SE*
1-2	Arithmetic & Basic Math, Pre-algebra	36	*10.6*	2	*1.4*	0	*0.1*	1	*0.4*
3	Elementary Algebra (High School level)	34	*9.6*	2	*1.6*	0	*0.0*	1	*0.4*
4	Intermediate Algebra (High School level)	27	*9.6*	0	*0.0*	0	*0.0*	1	*0.4*
19-20	Elementary Statistics, Probability	2	*1.0*	0	*0.1*	3	*0.9*	7	*3.4*
26-27	Business Mathematics	0	*0.3*	0	*0.0*	6	*2.0*	0	*0.0*
28-29	Technical Mathematics	4	*2.0*	3	*1.2*	0	*0.0*	1	*0.6*
	Total	103	*0.0*	6	*0.0*	10	*0.0*	10	*0.0*

TABLE TYE.16			
Mathematics Outside of the Mathematics Department		2015	*SE*
Percentage of Two-year Colleges with some precollege mathematics courses outside of mathematics department control		32	*5.3*
Course number	Type of Course		
1-2	Arithmetic & Basic Math, Pre-algebra	23	*4.9*
3	Elementary Algebra (High School level)	22	*5.2*
4	Intermediate Algebra (High School level)	16	*4.5*

TABLE TYF.1	
Two-Year Colleges	2015
Full-time permanent faculty	8314
SE	*839.5*
Full-time continuing faculty	1221
SE	*267.9*
Other full-time faculty	266
SE	*73.3*
Part-time faculty paid by TYC	17888
SE	*1908.8*
Part-time, paid by third party	2359
SE	*528.2*

TABLE TYF.2	Teaching assignment in weekly contact hours					
	<10	10 to 12	13 to 15	16 to 18	19 to 21	>21
Percentage of two-year colleges	3	10	68	8	6	5
SE	*2.2*	*5.0*	*5.1*	*2.7*	*2.4*	*1.5*

Full-time Permanent Faculty	Estimate	*SE*
A. Average weekly contact hours:	18	*1.8*
B. Percentage who teach extra hours for extra pay at their own two-year college:	74	*3.0*
C. Percentage teaching 1-3 extra hours for extra pay:	38	*2.7*
D. Percentage teaching 4-6 extra hours for extra pay:	39	*2.3*
E. Percentage teaching 7 or more extra hours for extra pay:	23	*2.1*
Part-time Faculty		
F. Percentage who teach 6 or more hours weekly:	64	*2.1*
G. Percentage of two-year colleges requiring part-time faculty to hold office hours:	29	*6.1*

TABLE TYF.3	
Number no longer part of 2015-2016 faculty	612
SE	*131.5*
Total full-time permanent faculty, fall 2015	8314
SE	*839.5*

TABLE TYF.4	Percentage of full-time permanent faculty
Highest degree	2015
Doctorate	15
SE	*1.5*
Master's	80
SE	*2.9*
Bachelor's	5
SE	*2.5*
Number of full-time permanent faculty	8314
SE	*839.5*

TABLE TYF.5	Percentage having as highest degree			
Field of degree	Doctorate	Master's	Bachelors	Total Percent in Field
Mathematics	9	60	4	73
SE	*1.2*	*2.7*	*2.2*	*2.3*
Statistics	2	3	0	5
SE	*1.2*	*0.5*	*0.1*	*1.4*
Mathematics Education	2	11	0	13
SE	*0.5*	*1.5*	*0.1*	*1.7*
Other fields	2	6	0	9
SE	*0.5*	*1.0*	*0.3*	*1.1*
Total Percentage by highest degree	15	80	5	100
SE	*1.5*	*2.9*	*2.5*	0.0

TABLE TYF.6	Percentage of part-time faculty
Highest degree	2015
Doctorate	7
SE	*0.8*
Master's	76.0
SE	*2.8*
Bachelor's	17.0
SE	*2.9*
Total	100%
SE	
Number of part-time faculty	20247
SE	*2182.9*

TABLE TYF.7	Percentage having as highest degree			
Field of degree	Doctorate	Master's	Bachelors	Total Percent in Field
Mathematics	4	45	8	58
SE	*0.7*	*3.6*	*1.6*	*3.9*
Mathematics Education	1	16	3	19
SE	*0.3*	*2.0*	*1.1*	*2.2*
Statistics	0	3	0	3
SE	*0.1*	*0.7*	*0.1*	*0.7*
Other fields	2	12	6	19
SE	*0.4*	*2.1*	*1.3*	*2.7*
Total Percentage by highest degree	7	76	17	100%
SE	*0.8*	*2.8*	*2.9*	*0.0*

TABLE TYF.8	Estimate	*SE*
Men	3969	*402.70*
	48%	*2.0%*
Women	4345	*475.50*
	52%	*2.0%*
Total	8314	*839.50*
	100%	

TABLE TYF.9	Percentage of	
	Full-time permanent faculty	Part-time faculty
Men	48	47%
SE	*2.0%*	*1.7%*
Women	52	53%
SE	*2.0%*	*1.7%*
Total	100%	100%
SE		
Total Number	8314	17888
SE	*839.5*	*1908.8*

TABLE TYF.10	2015
Percentage of ethnic minorities among full-time permanent faculty	23%
SE	*2.2%*
Number of full-time permanent ethnic minority faculty	1876
SE	*289.3*
Number of full-time permanent faculty	8314
SE	*984.8*

TABLE TYF.11	Percentage of full-time permanent faculty	
Ethnic Group	2015	*SE*
American Indian/Eskimo/Aleut	0	*0.1*
Asian/Pacific Islander	9	*1.1*
Black (non-Hispanic)	6	*0.9*
Mexican American/Puerto Rican/ other Hispanic	6	*1.4*
White (non-Hispanic)	75	*4.1*
Status unknown	3	*1.0*
Number of full-time permanent faculty	*8314*	*840*

TABLE TYF.12			
Ethnic Group	Number of full-time permanent faculty	Percentage of ethnic group in full-time permanent faculty	Percentage of women in ethnic group
American Indian, Alaskan Native	27	0	18
SE	*10.2*	*0.1*	*26.2*
Asian/Pacific Islander	754	9	27
SE	*110.8*	*1.1*	*7.2*
Black or African American (non-Hispanic)	525	6	41
SE	*80.4*	*0.9*	*7.6*
Mexican American,Puerto Rican or other Hispanic	515	6	33
SE	*124.9*	*1.4*	*9.7*
White (non-Hispanic)	6202	75	42
SE	*597.6*	*4.1*	*2.7*
Status not known or other	291	3	35
SE	*80.8*	*1.0*	*13.7*
Total	8314	100%	52
SE	*839.5*	*0.0*	*1.6*

TABLE TYF.13	Percentage among	
Ethnic Group	All full-time permanent faculty	Full-time permanent faculty under age 40
Ethnic Minorities	23%	26%
SE	*0.0*	*0.0*
White (non-Hispanic)	74%	72%
SE	*0.0*	*0.0*
Unknown	4%	2%
SE	*0.0*	*0.0*
Total	100%	100%
SE		
Number	8314	2045
SE	*839.5*	*292.1*

TABLE TYF.14	2015
Percentage of ethnic minorities among part-time faculty	20
SE	*1.4*
Number of part-time faculty	17888
SE	*1908.8*

TABLE TYF.15		Percentage of	
Ethnic Group	Number of part-time faculty	Ethnic group among all part-time faculty	Women within ethnic group
American Indian, Alaskan Native	46	0	80
SE	*29.4*	*0.2*	*34.3*
Asian/Pacific Islander	1341	7	49
SE	*284.1*	*1.3*	*4.4*
Black or African American (non-Hispanic)	1009	6	41
SE	*187.8*	*1.0*	*6.1*
Mexican American,Puerto Rican or other Hispanic	1073	6	42
SE	*258.1*	*1.2*	*2.8*
White (non-Hispanic)	12531	70	55
SE	*1413.9*	*2.8*	*1.9*
Status not known or other	1888	11	59
SE	*502.7*	*2.6*	*7.0*
Total	17888	100%	53
SE	*1908.8*	*0.0*	*1.7*

TABLE TYF.16				
	Percentage of full-time permanent faculty		Number of full-time permanent faculty	
Age	2015	*SE*	2015	*SE*
<30	4	*1.2*	363	*104.6*
30-34	6	*1.1*	529	*100.8*
35-39	14	*1.6*	1153	*177.6*
40-44	14	*1.7*	1159	*182.9*
45-49	18	*1.9*	1479	*229.5*
50-54	16	*1.8*	1357	*219.6*
55-59	13	*1.7*	1055	*157.0*
>59	15	*1.3*	1219	*152.9*
Total	100%		8314	*839.5*

TABLE TYF.17

	Percentage of full-time permanent faculty				Percentage of women in age group	*SE*
Age	Women	*SE*	Men	*SE*		
<35	6	*0.2*	5	*0.2*	56	*1.6*
35-44	14	*0.4*	14	*0.5*	50	*1.6*
45-54	19	*0.6*	14	*0.5*	58	*1.5*
>54	13	*0.4*	15	*0.5*	46	*1.6*
Total	52	*1.6*	48	*1.6*		

TABLE TYF.18

Percentage of new faculty from:	2015	*SE*
A. Graduate School	37	*7.4*
B. Teaching in a four-year college or university	4	*1.9*
C. Teaching in another two-year college	19	*5.4*
D. Teaching in a secondary school	1	*1.0*
E. Part-time or full-time temporary employment at the same college	26	*5.5*
F. Nonacademic employment	1	*0.8*
G. Unemployed	4	*4.0*
F. Unknown	9	*4.7*
Total	100%	*100.0%*
Total Number Hired	451	*82.7*

TABLE TYF.19	Percentage of New Hires	
Highest Degree	2015-2016	*SE*
Doctorate	9	*3.2*
Master's	87	*4.2*
Bachelor's	0	*0.0*
Unknown	4	*2.6*
Total	100%	*0.0*

TABLE TYF.20	Percentage of new hires		Percentage of women in ethnic group for 2015-2016 new hires	
Ethnic Group	2015-2016	*SE*	2015-2016	*SE*
American Indian	0	*0.0*	na	*na*
Asian/Pacific Islander	4	*1.8*	11	*12.1*
Black or Arican American (non-Hispanic)	2	*1.5*	54	*59.0*
Mexican Americank, Puerto Rican, or other Hispanic	3	*2.2*	33	*64.0*
White (non-Hispanic)	82	*4.9*	63	*7.3*
Other	3	*2.0*	33	*29.1*
Unknown	5	*2.5*	0	*0.0*
Percentage of women among all new hires	55	*6.9*		

TABLE TYF.21	Percentage of two-year colleges in fall 2015	*SE*
Colleges that require teaching evaluations for all full-time faculty	100	*0.0*
Colleges that require teaching evaluations for all part-time faculty	98	*1.1*

TABLE TYF.22	Percentage of programs using evaluation method for			
Method of evaluating teaching	Part-time faculty	*SE*	Full-time faculty	*SE*
A. Observation of classes by other faculty	64	*4.6*	75	*5.0*
B. Observation of classes by division head (if different from chair) or other administrator	62	*5.5*	45	*5.3*
C. Evaluation forms completed by students	94	*2.7*	95	*2.7*
D. Evaluation of written course material such as lesson plans, syllabus, or exams	57	*6.2*	53	*6.9*
E. Self-evaluation such as teaching portfolios	62	*5.5*	23	*4.2*
F. Written Peer Evaluations	34	*5.2*	21	*4.8*
G. Other methods	18	*5.7*	9	*4.1*

TABLE TYF.23		
Faculty Development	Fall 2015	*SE*
Percentage of institutions requiring continuing education or professional development for full-time permanent faculty	82	*3.6*
How Faculty Meet Professional Development Requirements	Percentage of permanent faculty in fall 2015	*SE*
A. Activities provided by employer	62	*1.6*
B. Activities provided by professional associations	33	*1.6*
C. Publishing books or research or expository papers	3	*0.7*
D. Continuing graduate education	3	*0.4*

TABLE TYF.24	Percentage of program heads classifying problem as major	
Problem	2015	*SE*
A. Maintaining vitality of faculty	7	*3.7*
B. Dual-enrollment courses	7	*3.1*
C. Staffing statistics courses	5	*2.3*
D. Students don't understand demands of college work	62	*4.9*
E. Need to use part-time faculty for too many courses	15	*3.4*
F. Faculty salaries too low	39	*6.8*
G. Class sizes too large	5	*2.3*
H. Low student motivation	57	*8.1*
I. Too many students needing remediation	64	*5.3*
J. Lack of student progress from developmental to advanced courses	36	*5.5*
K. Low success rate in transfer-level courses	14	*3.5*
L. Too few students who intend to transfer actually do	8	*2.0*
M. Inadequate travel funds for faculty	25	*4.3*
N. Inadequate classroom facilities for use of technology	4	*1.6*
O. Inadequate computer facilities for part-time faculty use	7	*1.8*
P. Inadequate computer facilities for student services	6	*1.7*
Q. Heavy classroom duties prevent personal & teaching enrichment by faculty	13	*3.5*
R. Coordinating mathematics courses with high schools	21	*5.1*
S. Lack of curricular flexibility because of transfer rules	2	*0.8*
T. Other barriers than inhibit curricular changes	7	*3.0*
U. Maintaining high and consistent expectations across sections	8	*3.0*
V. High cost of textbooks	54	*5.3*
W. Lack of flexibility in curricular redesign	4	*2.1*
X. Maintaining common standards between distance learning and related courses	2	*0.9*
Y. Use of distance education	4	*2.9*

TABLE TYF.25	Percentage of program heads classifying problems as					
Problem	minor or no problem	*SE*	somewhat of a problem	*SE*	major problem	*SE*
A. Maintaining vitality of faculty	60	*6.7*	33	*5.3*	7	*3.7*
B. Dual-enrollment courses	57	*4.1*	36	*4.7*	7	*3.1*
C. Staffing statistics courses	63	*4.0*	31	*4.1*	5	*2.3*
D. Students don't understand demands of college work	7	*3.2*	31	*4.7*	62	*4.9*
E. Need to use part-time faculty for too many courses	47	*5.5*	38	*3.7*	15	*3.4*
F. Faculty salaries too low	22	*4.8*	39	*6.1*	39	*6.8*
G. Class sizes too large	70	*3.4*	24	*3.1*	5	*2.3*
H. Low student motivation	9	*3.6*	34	*5.9*	57	*8.1*
I. Too many students needing remediation	2	*0.8*	33	*5.3*	64	*5.3*
J. Lack of student progress from developmental to advanced courses	15	*4.2*	48	*4.2*	36	*5.5*
K. Low success rate in transfer-level courses	32	*5.0*	54	*5.3*	14	*3.5*
L. Too few students who intend to transfer actually do	47	*5.9*	45	*5.8*	8	*2.0*
M. Inadequate travel funds for faculty	44	*4.8*	31	*3.1*	25	*4.3*
N. Inadequate classroom facilities for use of technology	70	*4.9*	26	*5.0*	4	*1.6*
O. Inadequate computer facilities for part-time faculty use	63	*4.4*	31	*4.4*	7	*1.8*
P. Inadequate computer facilities for student services	70	*4.9*	24	*4.9*	6	*1.7*
Q. Heavy classroom duties prevent personal & teaching enrichment by faculty	43	*4.6*	43	*4.9*	13	*3.5*
R. Coordinating mathematics courses with high schools	28	*4.2*	52	*4.0*	21	*5.1*
S. Lack of curricular flexibility because of transfer rules	52	*4.8*	46	*4.7*	2	*0.8*
T. Other barriers than inhibit curricul changes	61	*4.1*	32	*4.2*	7	*3.0*
U. Maintaining high and consistent expectations across sections	48	*5.2*	44	*5.9*	8	*3.0*
V. High cost of textbooks	11	*3.2*	35	*4.9*	54	*5.3*
W. Lack of flexibility in curricular redesign	55	*6.2*	41	*6.4*	4	*2.1*
X. Maintaining common standards between distance learning and related courses	57	*6.4*	41	*6.4*	2	*0.9*
Y. Use of distance education	53	*6.4*	43	*7.6*	4	*2.9*

TABLE TYF.26	Percentage of Mathematics Programs	
Administrative structure	2015	*SE*
Mathematics Department	52	*5.4*
Mathematics and computer science	10	*2.7*
Mathematics and science	28	*5.0*
Other department or division structure	6	*2.4*
None of the above or unknown	4	*1.4*