Appendix VII

Tables of Standard Errors

Table S.1	Four-year	*SE*	Two-year	*SE*
Mathematics	1971	*73*	1887	*103*
Statistics	371	*16*	137	*12*
Computer Science	77	*11*	na	
Total	2419	*82*	2024	*109*

Table S.2	Math. Dept.	*SE*	Stat. Dept.	SE	TYC	*SE*
Precollege	209	*22*			1150	*86*
Introductory	863	*35*			368	*31*
Calculus level	748	*35*			138	*10*
Advanced	150	*7*			0	-
Other (Two-year only)					231	*12*
Total Mathematics	1971	*73*			1887	*103*
Statistics						
Elementary	231	*16*	81	*6*	137	*25*
Upper level	32	*3*	27	*5*	0	-
Total Stat	262	*16*	108	*7*	137	*25*
CS						
Lower	56	*9*				
Middle	12	*2*				
Upper	10	*2*				
Total	77	*11*				
Grand Total	2310	*82*	108	*7*	2024	*111*

Table S.3	Four-year	*SE*
Math	12468	*978*
Math Ed	3614	*433*
Statistics	856	*61*
Actuarial	849	*117*
All Joint Majors (comb.)	1222	*258*
Math & CS		
Math & Stat		
Math/Stat & Bus. or Econ.		
Other	231	*63*
Total M, S, Jt. degrees	19241	*1100*
Women	8692	*685*
CS degrees	2137	*389*
Women	394	*80*
Total degrees	21377	*1180*
Women	9086	*688*

Table S.4	TTE	*SE*	OFT	*SE*	PT	*SE*	GTA	*SE*	UNKN	*SE*	Enroll	*SE*
Math Depts												
Math courses	47	*2*	16	*1*	20	*2*	6	*0*	11	*2*	1928	*71*
Stat Courses	60	*2*	9	*1*	14	*2*	3	*1*	13	*2*	250	*16*
CS Courses	60	*5*	17	*5*	21	*6*	1	*0*	2	*1*	73	*11*
All Math Dept	49	*2*	15	*1*	19	*2*	6	*0*	11	*2*	2251	*81*
Stat Depts												
All Stat courses	49	*3*	11	*1*	8	*1*	10	*1*	22	*2*	105	*5*
TYC												
All courses	54	*na*			46	*5*					1836	*103*

Table S.5	TTE	*SE*	OFT	*SE*	PT	*SE*	GTA	*SE*	UNKN	*SE*	Enroll	*SE*
Math, Precollege	18	*3*	20	*4*	44	*4*	9	*2*	9	*2*	201	*22*
Math, Intro	32	*2*	22	*2*	27	*2*	8	*1*	10	*1*	834	*34*
Math, Calculus	59	*3*	15	*1*	12	*3*	7	*1*	8	*2*	743	*35*
Math, Upper level	78	*8*	-		-		-		23	*8*	150	*7*
Math, Elem level stat	48	*2*	14	*1*	22	*3*	4	*1*	12	*3*	218	*16*
Math, Upper level stat	77	*6*	-		-		-		23	*6*	32	*3*
Math, CS Lower level	50	*5*	17	*5*	29	*7*	1	*1*	3	*1*	52	*8*
Stat Dept, Elem level	33	*3*	17	*2*	12	*1*	15	*2*	23	*3*	81	*6*
Stat Dept, Upper level	79	*2*	-		-		-		21	*2*	27	*5*
TYC, All	54	*na*			46	*5*					1836	*103*

Standard Error Table for S.6

Table S.6	TTE	*SE*	OFT	SE	PT	SE	GTA	SE	UNKN	SE	Enroll	SE	Avg Sect	SE
MS Calc I														
Lect/Recit	46	*8*	19	*4*	20	*11*	9	*2*	7	*3*	107	*14*	50	*3*
Reg < 31	65	*3*	18	*2*	11	*3*	3	*1*	4	*1*	49	*5*	21	*1*
Reg > 30	48	*5*	16	*3*	14	*3*	9	*3*	12	*5*	78	*8*	36	*1*
MS Calc I Total	53	*4*	18	*2*	15	*4*	7	*1*	8	*3*	234	*14*	35	*1*
MS Calc II														
Lect/Recit	50	*10*	15	*6*	27	*17*	4	*2*	4	*2*	61	*13*	51	*4*
Reg < 31	76	*4*	9	*2*	5	*2*	4	*1*	6	*2*	22	*3*	19	*1*
Reg > 30	52	*7*	17	*3*	5	*1*	13	*8*	13	*7*	45	*5*	37	*1*
MS Calc II Total	59	*6*	14	*2*	12	*7*	7	*3*	8	*3*	128	*14*	36	*1*
Total I & II	55	*4*	16	*2*	14	*5*	7	*1*	8	*3*	362	*27*	35	*1*
TYC	Full-time				Part-time									
MS Calc I	90	*3*			10	*3*					63	*4*	20	*6*
MS Calc II	86	*3*			14	*3*					29	*2*	24	*1*
Total I & II	89	*3*			11	*3*					93	*6*	21	*4*

Table S.7	TTE	*SE*	OFT	*SE*	PT	*SE*	GTA	*SE*	UNKN	*SE*	Enroll	*SE*	Avg Sect	*SE*
NMS Calc I														
Lect/Recit	35	*5*	30	*5*	20	*4*	9	*3*	7	*2*	34	*4*	56	*5*
Reg < 31	33	*6*	18	*5*	23	*6*	15	*8*	11	*4*	17	*2*	24	*1*
Reg > 30	27	*4*	24	*5*	24	*4*	11	*2*	14	*6*	48	*6*	45	*3*
NMS Calc I Total	31	*3*	24	*3*	23	*3*	12	*3*	11	*3*	99	*6*	42	*2*
NMS Calc II	34	*6*	15	*4*	17	*5*	11	*4*	22	*9*	22	*3*	29	*4*
NMS Calc I & II	31	*3*	22	*3*	21	*3*	12	*3*	14	*3*	121	*8*	39	*2*
TYC	Full-time				Part-time									
NMS Calc I	75	*8*			25	*8*					19	*3*	21	*5*
NMS Calc II	50	*17*			50	*17*					2	*1*	27	*3*
Total I & II	73	*8*			27	*8*					21	*3*	21	*4*

Table S.8 Math Depts	T/TE	*SE*	OFT	*SE*	PT	*SE*	GTA	*SE*	UNKN	*SE*	Enroll	*SE*	Avg Sect	*SE*
Intro Stat (F1)														
Lect/Recit	46	*5*	6	*2*	27	*10*	2	*1*	19	*8*	47	*13*	33	*3*
Reg < 31	46	*5*	17	*4*	26	*5*	2	*1*	9	*3*	54	*7*	22	*1*
Reg > 30	46	*4*	18	*3*	17	*3*	8	*2*	12	*2*	74	*9*	45	*3*
Course Total	46	*2*	15	*1*	24	*3*	4	*1*	12	*3*	174	*16*	31	*1*
Intro Stat (F2)														
Lect/Recit	59	*10*	21	*6*	8	*7*	2	*2*	9	*8*	8	*3*	25	*1*
Reg < 31	70	*9*	8	*6*	12	*4*	3	*2*	7	*7*	6	*1*	15	*2*
Reg > 30	49	*8*	23	*9*	10	*7*	19	*8*	0	*0*	9	*2*	38	*4*
Course Total	61	*6*	16	*4*	10	*3*	7	*2*	6	*6*	23	*4*	24	*1*
Prob & Stat (F3) Course Total	41	*7*	8	*3*	26	*9*	9	*4*	16	*6*	18	*4*	32	*3*
Other Prob & Stat (F4) Course Total	71	*14*	12	*5*	0	*0*	6	*5*	12	*11*	3	*1*	27	*4*
Total All Elem. Prob & Stat	48	*2*	14	*1*	22	*3*	4	*1*	12	*3*	218	*16*	30	*1*
TYC	Full-time				Part-time									
Elem Stat	61	*3*			39	*3*					114	*9*	28	*1*

Table S.9 Stat Depts	T/TE	*SE*	OFT	*SE*	PT	*SE*	GTA	*SE*	UNKN	*SE*	Enroll	*SE*	Avg Sect	*SE*
Intro Stat (no calc) (E1)														
Lect/Recit	21	*2*	20	*2*	13	*2*	14	*4*	31	*6*	38	*3*	61	*6*
Reg < 31	44	*8*	25	*8*	20	*5*	4	*3*	7	*4*	5	*2*	23	*4*
Reg > 30	33	*7*	9	*3*	11	*3*	25	*6*	21	*5*	13	*2*	40	*2*
Course Total	29	*3*	18	*2*	14	*1*	16	*3*	24	*4*	56	*4*	47	*3*
Intro Stat (calc prereq) (E2)														
Lect/Recit	35	*4*	21	*3*	9	*2*	10	*3*	25	*3*	7	*1*	46	*5*
Reg < 31	47	*11*	11	*3*	3	*1*	8	*3*	31	*10*	4	*1*	27	*7*
Reg > 30	47	*4*	13	*2*	15	*4*	14	*3*	11	*2*	5	*0*	37	*3*
Course Total	43	*4*	15	*2*	9	*1*	11	*2*	23	*3*	16	*2*	37	*3*

Table S.10	Computer algebra systems	*SE*	Commercial packages	*SE*	Mostly lecture	*SE*	Enroll	*SE*	Avg Sect	*SE*
MS Calc I	9	*3*	12	*5*	66	*18*	63	*4*	20	*6*
MS Calc II	9	*3*	11	*3*	85	*5*	29	*2*	24	*1*
Total MS Calc I & II	9	*2*	12	*4*	71	*13*	93	*6*	21	*4*

Table S.11	Computer algebra systems	*SE*	Commercial packages	*SE*	Mostly lecture	*SE*	Enroll	*SE*	Avg Sect	*SE*
NMS Calc I	0	*0*	22	*10*	72	*15*	19	*3*	21	*5*
NMS Calc II	0	*0*	0	*0*	84	*8*	2	*1*	27	*3*
Total NMS Calc I & II	0	*0*	20	*9*	73	*14*	21	*3*	21	*4*

Table S.12	Computer algebra systems	*SE*	Commercial packages	*SE*	Mostly lecture	*SE*	Enroll	*SE*	Avg Sect	*SE*
Elementary Statistics	2	*1*	19	*5*	81	*5*	114	*9*	28	*1*

Table S.13 (A)	% of Math Depts.	*SE*	% of Stat Depts.	*SE*
Offer elementary statistics course with no calculus prerequisite	84	*3*	88	*3*
Percentage of class sessions in which real data is used is:				
0-20%	18	*4*	9	*3*
21-40%	27	*4*	17	*3*
41-60%	19	*4*	16	*3*
61-80%	16	*4*	20	*3*
81-100%	20	*4*	38	*4*
Percentage of class sessions in which in-class demonstrations or problem solving activities take place is:				
0-20%	14	*2*	19	*3*
21-40%	29	*5*	22	*4*
41-60%	13	*3*	16	*3*
61-80%	25	*4*	17	*3*
81-100%	19	*3*	26	*4*
Majority of sections use the following kinds of technology:				
Graphing calculators	71	*4*	43	*4*
Statistical packages	55	*4*	87	*3*
Educational software	19	*3*	40	*4*
Applets	17	*4*	34	*4*
Spreadsheets	51	*5*	48	*4*
Web-based resources	54	*7*	74	*4*
Classroom response systems	10	*3*	29	*4*
Percentage of departments where the majority of sections require assessments beyond homework, exams, and quizzes	45	*5*	36	*4*

Table 13 (B) Practices used in teaching College Algebra	Percentage of all sections, nationally	*SE*	Mean of department-reported percentages	*SE*
a. Emphasize problem solving in the modeling sense	44	*5*	53	*5*
b. Include elementary data analysis	27	*5*	26	*6*
c. Include writing assignments	16	*3*	23	*5*
d. Include small group activities	36	*5*	42	*6*
e. Include small group projects	20	*5*	22	*6*
f. Include class presentations	9	*3*	12	*4*
g. Use graphing calculators	66	*5*	72	*4*
h. Use spreadsheets	5	*3*	8	*5*
i. Use online homework generating and grading packages	68	*4*	58	*6*
j. Use classroom response systems (e.g., clickers)	9	*3*	8	*4*
k. Primarily use a traditional approach	65	*5*	70	*4*

Table S.14	2010	SE
Math Depts		
FT faculty	22293	562
PT faculty	6050	306
Stat Depts (PhD)		
FT faculty	1004	19
PT faculty	105	8
TYC		
FT faculty	10873	602
PT faculty	23453	1592

Table S.15	Total	SE	T&TE	SE	OFT	SE	Post doc	SE
Math Depts								
Full-time	22293	562	16364	373	5929	380	1025	23
with PhD	18249	402	15646	365	2603	136	1024	23
w/o PhD	4044	286	717	93	3326	280	1	1
Stat (PhD)								
Full-time	1004	19	789	14	215	9	71	6
with PhD	969	19	786	14	184	8	71	6

TYC	Total FT	SE	FT Perm	SE	FT Temp	SE
FT Faculty	10873	602	9790	387	1083	417

Table S.16	Total	SE	T	SE	TE	SE	OFT	SE	PD	SE
Math Depts										
FT faculty	22293	562	12747	315	3617	141	5929	380	1025	23
# Women	6416	194	2740	131	1227	77	2449	126	233	6
Stat Depts (PhD)										
FT faculty	1004	19	580	12	209	6	215	9	71	6
# Women	261	7	95	3	84	3	82	4	18	2

TYC	All	SE	FT < 40	SE
FT faculty	9790	387	3244	313
# Women	4924	278	1764	223

Table S.17	<30	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>69
Ages, Math total %	2	9	12	12	14	13	13	12	8	4
SE	0	1	1	1	1	1	1	1	0	0

TYC	<30	30-34	35-39	40-44	45-49	50-54	55-59	>59	Avg
Perm fac ages %	8	9	12	14	15	11	13	17	46.8
SE	2	1	1	2	1	1	1	2	-

Table S.18	<30	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>69
Ages, Stat total %	3	14	17	13	10	9	12	12	6	4
SE	0	1	1	1	1	1	1	1	1	0

Table S.19	Asian	Black	Hisp.	White	Other
FT men %	9	2	2	56	2
SE	*0*	*0*	*0*	*1*	*0*
FT women %	3	1	1	23	1
SE	*0*	*0*	*0*	*1*	*0*

Table S.20	Asian	Black	Hisp.	White	Other
FT men %	20	1	1	49	3
SE	*1*	*0*	*0*	*1*	*0*
FT women %	8	0	1	15	2
SE	*1*	*0*	*0*	*1*	*0*

Table S.21	D&Ret	*SE*	Number	*SE*
PhD Math	146	*5*	5615	*27*
MA Math	91	*9*	3209	*47*
BA Math	123	*28*	7540	*369*
Total Math	360	*30*	16364	*373*
Total Doc Stat	15	*3*	789	*14*

Table SP.1	% Have K-8	*SE*	% have math certification	*SE*
Univ (PhD)	62	*3*	79	*3*
Univ (MA)	90	*5*	96	*3*
Coll (BA)	70	*5*	80	*5*
Math Total	72	*4*	82	*3*

Table SP.2	Percentage of TYCs with an organized program in which students can complete their entire mathematics course or licensure requirements	*SE*
Pre-service elementary teachers	41	*8*
Pre-service middle school teachers	24	*8*
Pre-service secondary teachers	13	*4*
In-service elementary teachers	25	*6*
In-service middle school teachers	12	*4*
In-service secondary teachers	10	*4*
Career-switchers aiming for elementary teaching	30	*6*
Career-switchers aiming for middle school teaching	17	*4*
Career-switchers aiming for secondary teaching	13	*4*

Table SP.3		Univ (PhD) %	*SE*	Univ (MA) %	*SE*	College (BA) %	*SE*	All Math Depts %	*SE*
Dept. offers a K-8 certification program.		62	*3*	90	*5*	70	*5*	72	*4*
Dept. offers program for "math specialists" in any K-8 grades.		36	*5*	27	*9*	21	*8*	24	*6*
	Of those departments that offer a program for "math specialists" in any K-8 grade, the percentage of depts offering a program for "math specialists" in early elementary grades.	44	*10*	72	*18*	58	*22*	58	*13*
Dept. offers courses team-taught with education dept.		11	*3*	5	*3*	8	*3*	8	*2*

Table SP.4	% of TYCs	*SE*
Assign a mathematics faculty member to coordinate K–8 teacher education in mathematics	36	*5*
Offer a special mathematics course for preservice K–8 teachers in 2009–2010 or 2010–2011	7	*3*
Offer mathematics pedagogy courses in the mathematics department	5	*2*
Offer mathematics pedagogy courses outside of the mathematics department	9	*4*

Table SP.5	Percentage of departments with K-8 certification programs that require various numbers of mathematics courses for "early" certification							
Number of mathematics courses required for "early" grades certification	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	College (BA) %	*SE*	All Math Depts %	*SE*
0 required	7	*3*	9	*8*	8	*5*	8	*4*
1 required	15	*4*	3	*3*	11	*5*	10	*3*
2 required	38	*6*	35	*13*	44	*8*	42	*6*
3 required	22	*4*	29	*9*	10	*4*	14	*3*
4 required	11	*3*	13	*8*	14	*4*	14	*3*
5 or more required	5	*2*	11	*4*	13	*4*	11	*3*
	Average number of various courses required for "early" certification							
Type of required courses	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	College (BA) %	*SE*	All Math Depts %	*SE*
Mathematics Department math courses	2.4	*0.1*	3.0	*0.4*	2.7	*0.2*	2.7	*0.2*
Methods (pedagogy) courses (taught in any department)	1.7	*0.2*	1.8	*0.4*	1.3	*0.1*	1.4	*0.1*
Mathematics Department methods (pedogogy) courses	0.6	*0.1*	0.8	*0.2*	0.5	*0.1*	0.5	*0.1*

Table SP.6	Percentage of mathematics departments with K-8 certification program offering various courses							
Core areas covered by one or more specially designed courses(s) offered by mathematics departments	Univ (PhD)	*SE*	Univ (MA)	*SE*	Coll (MA)	*SE*	All Math	*SE*
Numbers/Operations	73	*5*	92	*5*	71	*5*	74	*4*
Algebra	58	*6*	64	*8*	55	*8*	57	*6*
Geometry/Measurement	67	*5*	94	*4*	64	*7*	69	*5*
Statistics/Probability	53	*6*	76	*5*	52	*8*	56	*6*
Methods of teaching elementary grades mathematics	27	*4*	36	*7*	31	*7*	31	*5*

Table SP.7	Percentages of mathematics faculty at mathematics departments with K-8 certification program							
Rank of faculty who generally teach courses of SP.6	Univ (PhD)	*SE*	Univ (MA)	*SE*	Coll (MA)	*SE*	All Math	*SE*
Tenured/tenure-track faculty	30	*5*	79	*7*	63	*6*	62	*5*
Postdocs	0	-	0	-	0	-	0	-
Other full-time faculty	53	*5*	10	*4*	25	*3*	26	*2*
Part-time faculty	8	*3*	11	*6*	12	*5*	11	*4*
Graduate teaching assistants	9	*3*	0	-	0	-	1	*0*

	Type of department							
Table SP.8	Univ (Ph.D)	*SE*	Univ (MA)	*SE*	Coll (BA)	*SE*	All math	*SE*
Percentage of departments at colleges and universities that have a separate education department	95	*2*	100	*0*	97	*1*	97	*1*
Of those with a separate education department, the percentage that offer courses team-taught by education and mathematics faculty	15	*3*	5	*4*	8	*3*	8	*3*

	Percentage of departments with secondary certification program where:											
Table SP.9 (SE's only)	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 %
Adv. Calculus/Analysis	*5*	*6*	*7*	*5*	*4*	*3*	*6*	*5*	*4*	*3*	*2*	*1*
Modern Algebra	*4*	*4*	*3*	*2*	*3*	*3*	*3*	*2*	*4*	*2*	*4*	*3*
Number Theory	*4*	*9*	*7*	*5*	*4*	*11*	*5*	*4*	*5*	-	*2*	*2*
Geometry	*3*	*3*	*4*	*3*	*3*	*3*	*4*	*3*	*6*	*7*	*8*	*6*
Discrete Mathematics	*6*	*6*	*6*	*5*	*3*	*6*	*3*	*2*	*4*	*8*	*4*	*3*
Statistics	*4*	*3*	*3*	*2*	*4*	*3*	*3*	*2*	*3*	*7*	*4*	*3*
History of Math	*4*	*10*	*7*	*5*	*4*	*6*	*3*	*2*	*3*	*5*	*5*	*4*

	Mathematics Depts				Statistics Depts			
Table SP.10 (SE's only)	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total	Two-Year Colleges
Percentage offering distance learning	*4*	*9*	*5*	*4*	*4*	*10*	*4*	*4*
Characterize majority of course instruction:								
All instruction with no instructor physically present	*5*	*14*	*8*	*5*	*6*	*12*	*7*	*na*
Some instruction with no instructor physically present	*5*	*14*	*8*	*5*	*6*	*12*	*7*	*na*
Format of majority of distance learning:								
Complete online	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*6*
Hybrid	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*5*
Other	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*3*
Instructional materials created by:								
Faculty	*6*	*9*	*13*	*8*	*8*	*13*	*7*	*2*
Commercially produced materials	*3*	*10*	*2*	*2*	*-*	*9*	*4*	*4*
Combination of both	*6*	*8*	*12*	*7*	*8*	*13*	*7*	*5*
How distance learning students take majority of tests:								
Not at a monitored testing site	*4*	*11*	*11*	*7*	*7*	*13*	*7*	*4*
At proctored testing site	*5*	*12*	*8*	*5*	*8*	*13*	*7*	*5*
Combination of both	*4*	*9*	*8*	*5*	*8*	*14*	*7*	*4*
Give credit for distance learning not offered through department:								
Yes	*5*	*9*	*11*	*7*	*7*	*12*	*6*	*na*
No	*5*	*9*	*7*	*5*	*8*	*13*	*7*	*na*
No department policy	*5*	*12*	*9*	*6*	*8*	*13*	*7*	*na*

Table SP.11		
Distance learning course exams when there are multiple instructors teaching the course	% of TYCs	*SE*
No common departmental exams	39	*6*
Common departmental exams for some courses	20	*4*
Common departmental exams for all courses	23	*4*
Not applicable or unreported	18	*na*
Requirements of distance learning faculty whose entire teaching load is distance courses regarding time required to be on campus to meet with students		
Never	8	*3*
Only for scheduled meeting or student appointment	6	*3*
A specified number office hours per week	21	*5*
Not applicable or unreported	65	*5*

Table SP.12 (SE's only)	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	*3*	*5*	*6*	*4*	*0*	*0*	*0*	*2*
Of those with courses in both formats, the percentage where:								
Contents, goals, and objectives same as in non-distance learning	*2*	*0*	*1*	*1*	*4*	*0*	*2*	*4*
Instructors hold comparable office hours on campus	*5*	*12*	*14*	*8*	*8*	*12*	*7*	*na*
Instructors participate in evaluation in same way	*5*	*7*	*8*	*4*	*5*	*12*	*6*	*4*
Same use of common exams as in face-to-face	*6*	*12*	*8*	*6*	*8*	*13*	*7*	*5*
Same course outlines as in face-to-face	*2*	*0*	*2*	*1*	*4*	*9*	*5*	*2*
Same course projects as in face-to-face	*6*	*7*	*10*	*6*	*8*	*13*	*8*	*5*

	Mathematics Departments							
Table SP.13.A	Univ (PhD)	*SE*	Univ (MA)	*SE*	College (BA)	*SE*	Total	*SE*
E22. Introduction to Proofs	1	*0*	4	*3*	1	*0*	1	*0*
E23-1. Modern Algebra I	1	*1*	1	*1*	0	*0*	1	*0*
E23-2. Modern Algebra II								
E24. Number Theory	1	*0*					0	*0*
E25. Combinatorics								
E26. Actuarial Mathematics								
E27. Logic/Foundations (not E22)								
E28. Discrete Structures					0	*0*	0	*0*
E29. History of Mathematics	3	*1*	5	*4*	1	*1*	2	*1*
E30. Geometry	2	*1*			0	*0*	0	*0*
E31-1. Advanced Calculus I and/or Real Analysis I	1	*0*	4	*3*			1	*0*
E31-2. Advanced Calculus II and/or Real Analysis II								
E32. Advanced Mathematics for Engineering and Physical Sciences	1	*1*					0	*0*
E33. Advanced Linear Algebra (beyond E17, E19)	1	*1*					0	*0*
E34. Vector Analysis								
E35. Advanced Differential Equations (beyond E18)								
E36. Partial Differential Equations								
E37. Numerical Analysis I and II	1	*1*					0	*0*
E38. Applied Mathematics (Modeling)								
E39. Complex Variables	1	*0*					0	*0*
E40. Topology								
E41. Mathematics of Finance (not E26, E38)	1	*0*					0	*0*
E42. Codes and Cryptology								
E43. Biomathematics					1	*1*	1	*1*
E44. Operations Research (all courses)								
E45. Senior Seminar/ Independent Study in Mathematics								
E46. Other advanced level mathematics								
E47. Mathematics for Secondary School Teachers	2	*1*	4	*3*			1	*0*

	Mathematics Departments				Statistics Departments		
Table SP.13.B (SE's only)	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total
E6. Mathematical Statistics (calculus prerequisite)							
E7. Probability (calculus prerequisite)	*1*			*0*	*0*		*0*
E8. Combined Probability & Statistics (calculus prerequisite)	*1*			*0*			
E9. Stochastic Processes							
E10. Applied Statistical Analysis	*1*	*3*		*0*	*2*		*1*
E11. Design & Analysis of Experiments					*1*		*1*
E12. Regression (and Correlation)	*1*		*1*	*1*	*1*		*1*
E13. Biostatistics					*1*		*1*
E14. Nonparametric Statistics					*1*		*1*
E15. Categorical Data Analysis							
E16. Sample Survey Design & Analysis							
E17. Statistical Computing							
E18. Data Management							
E19. Senior Seminar/ Independent Studies							
E20. Bayesian Statistics							
E21. Statistical Consulting							
E22. Statistical Software					*0*		*0*
E23. Other upper level Probability & Statistics	*1*			*0*			
E23. Other mathematical science courses					*1*	*5*	*2*
F16. Statistical Computing (Math only)							

Table SP.14	Honors	Club	Women	Minorities	Contests	Colloquia	Outreach
Univ (PhD)	70	91	31	21	93	82	71
SE	*5*	*2*	*3*	*4*	*2*	*3*	*4*
Univ (MA)	40	96	21	21	82	88	75
SE	*8*	*3*	*7*	*7*	*5*	*5*	*5*
Coll (BA)	15	75	16	12	62	51	40
SE	*4*	*5*	*5*	*3*	*4*	*6*	*6*
All Math	26	80	19	14	69	60	49
SE	*3*	*4*	*4*	*2*	*3*	*4*	*5*
Univ (PhD)	43	48	19	22	24	67	30
SE	*4*	*5*	*4*	*4*	*4*	*4*	*4*
Univ (MA)	55	45	0	0	36	82	18
SE	*11*	*11*			*11*	*8*	*8*
All Stat	46	47	13	15	28	71	27
SE	*4*	*5*	*3*	*3*	*4*	*4*	*4*
TYC	20	31	6	11	41	16	32
SE	*3*	*5*	*2*	*3*	*4*	*4*	*5*

Table SP.15	REU	Ind. Studies	Advisor	Thesis	Career	Grad. Sch.	Intern	Sen Sem	Consult. Lab
Univ (PhD)	96	96	90	63	40	67	50	47	
SE	*1*	*2*	*3*	*4*	*3*	*4*	*4*	*5*	
Univ (MA)	91	100	100	56	46	70	67	66	
SE	*6*	*0*	*0*	*10*	*6*	*4*	*8*	*11*	
Coll (BA)	83	94	90	58	17	46	55	59	
SE	*4*	*2*	*5*	*8*	*4*	*7*	*6*	*7*	
All Math	86	95	91	59	24	52	56	58	
SE	*3*	*1*	*3*	*6*	*3*	*6*	*4*	*5*	
Univ (PhD)	85	90	89	54	30	66	69	30	32
SE	*3*	*2*	*3*	*4*	*4*	*4*	*4*	*4*	*4*
Univ (MA)	82	100	73	27	45	64	91	27	55
SE	*8*	*0*	*10*	*10*	*11*	*11*	*6*	*10*	*11*
All Stat	84	93	84	46	35	66	75	29	39
SE	*3*	*2*	*3*	*4*	*4*	*4*	*3*	*4*	*4*
TYC	14	36	42	na	na	na	na	na	na
SE	*4*	*5*	*5*						

Table SP.16	Mathematics Departments				Statistics Departments		
Numbers of team-taught courses	Univ (PhD) %	Univ (MA) %	College (BA) %	Total %	Univ (PhD) %	Univ (MA) %	Total %
None	73	70	89	84	78	100	84
SE	*4*	*7*	*4*	*3*	*4*	*0*	*3*
One course	15	30	7	12	14	0	10
SE	*4*	*7*	*3*	*2*	*3*		*2*
Two or more courses	12	0	3	4	8	0	6
SE	*2*		*2*	*2*	*3*		*2*

Table SP.17	Univ (Phd)		Univ (MA)		Coll (BA)		All departments	
Percentage that offered any new interdisciplinary course	56		45		30		36	
SE	*6*		*8*		*5*		*4*	
Of those offering any new course, those offering course in:	Offered new course %	Mean number of new courses	Offered new course %	Mean number of new courses	Offered new course %	Mean number of new courses	Offered new course %	Mean number of new courses
Mathematics and finance or business	24	1.5	20	1.1	1	2.0	8	1.4
SE	*4*	*0.1*	*8*	*0.1*	*1*	*1.1*	*1*	*0.1*
Mathematics and biology	41	1.5	20	1.0	3	1.2	12	1.3
SE	*5*	*0.1*	*8*	*0.0*	*1*	*0.2*	*2*	*0.1*
Mathematics and the study of the environment	3	1.0	12	1.0	5	1.0	5	1.0
SE	*1*	*0.0*	*5*	*0.0*	*3*	*0.0*	*2*	*0.0*
Mathematics and engineering or the physical sciences	13	1.8	9	1.0	4	1.0	6	1.3
SE	*5*	*0.4*	*5*	*0.0*	*2*	*0.0*	*2*	*0.1*
Mathematics and economics	4	1.0	5	1.0	3	1.1	4	1.1
SE	*2*	*0.0*	*5*	*.*	*3*	*0.7*	*2*	*0.1*
Mathematics and social sciences other than economics	1	1.0	5	1.0	0	0	1	1.0
SE	*1*	*.*	*4*	*0.0*			*1*	*0.0*
Mathematics and education	18	2.0	14	1.4	13	1.6	14	1.7
SE	*3*	*0.4*	*5*	*0.3*	*5*	*0.3*	*3*	*0.2*
Mathematics and the humanities	5	1.0	13	1.0	13	1.4	12	1.3
SE	*2*	*0.0*	*4*	*0.0*	*4*	*0.3*	*3*	*0.3*
Other	2	1.0	0	0	10	1.3	8	1.2
SE	*1*	*0.0*			*4*	*0.2*	*3*	*0.2*

Table SP.18 (SE's only)	Four-year Mathematics			Two-year Mathematics			Four-year Statistics		
Percentage of departments with dual enrollment courses	2			5			2		
Number of dual enrollments in:	Dual Enrollments		Other enrollments	Dual enrollments		Other enrollments	Dual enrollments		Other enrollments
	spring 2010	fall 2010	fall 2010	spring 2010	fall 2010	fall 2010	spring 2010	fall 2010	fall 2010
College algebra	1887	6004	15896	4967	7660	27830			
Precalculus	2469	1322	8188	5340	7508	7334			
Calculus I	1771	945	15230	2178	2678	5972			
Statistics	1600	1069	15835	1919	1226	12162	778	0	5069
Other	853	779		3987	5233				
Dept. control of dual enroll. courses taught by HS teachers	Never	Sometimes	Always	Never	Sometimes	Always	Never	Sometimes	Always
Textbook choice	7	14	14	6	5	6	28	22	22
Syllabus design/ approval	1	1	2	3	1	3	28	28	
Final exam design	8	13	14	10	7	7	28	28	
Choice of instructor	10	10	17	9	6	8	28	22	22
Departmental teaching evaluations required in dual enrollment courses			19			6			

Table S.19	Asian	Black	Hisp.	White	Other
FT men %	9	2	2	56	2
SE	*0*	*0*	*0*	*1*	*0*
FT women %	3	1	1	23	1
SE	*0*	*0*	*0*	*1*	*0*

Table S.20	Asian	Black	Hisp.	White	Other
FT men %	20	1	1	49	3
SE	*1*	*0*	*0*	*1*	*0*
FT women %	8	0	1	15	2
SE	*1*	*0*	*0*	*1*	*0*

Table SP.20 (SE's only)	Required in all majors			Required in some but not all majors			Not required in any major		
Mathematics Department Requirements	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %	College (BA) %
Modern Algebra I	5	12	6	5	13	7	5	4	4
Real Analysis I	4	10	8	3	10	4	3	7	7
Modern Algebra I or Real Analysis I	4	6	3	4	6	5	4	8	5
A one-year upper level sequence	4	7	6	3	4	6	5	10	6
At least one computer science course	4	11	6	3	10	4	3	6	4
At least one statistics course	4	9	5	4	5	6	3	7	5
At least one applied mathematics course beyond course E21	4	8	7	4	5	3	4	7	8
A capstone experience (senior project, thesis, seminar, internship)	5	9	6	3	5	4	5	12	5
An exit exam (written or oral)	3	4	4	1	3	3	3	4	3

Table SP.21 (SE's only)	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	2	6	2	6	0	na
(b) Calculus II	2	6	2	6	0	na
(c) Multivariable Calculus	5	11	4	10	3	8
(d) Linear algebra/Matrix theory	4	11	3	10	2	6
(e) At least one Computer Science course	5	6	4	na	4	6
(f) At least one applied mathematics course, not incl. (a), (b), (c), (d)	4	11	4	8	5	8
(g) A capstone experience (e.g., a senior thesis or project, seminar, or internship)	5	11	3	6	5	11
(h) An exit exam (oral or written)	3	8	2	na	3	8
(i) One Probability Course	4	6	3	6	2	na
(j) One Mathematical Statistics Course	4	11	3	11	2	na
(k) One Linear Models Course	5	11	3	8	4	10
(l) One Bayesian Inference Course	2	na	3	na	4	0

Table SP.22	Mathematics Departments			
Number of tracks	Univ (PhD) %	Univ (MA) %	College (BA) %	Total %
One or two tracks	26	34	72	60
SE	*4*	*4*	*6*	*4*
Three or four tracks	37	46	21	27
SE	*4*	*8*	*5*	*4*
More than four tracks	37	17	5	11
SE	*5*	*7*	*2*	*2*

Table SP.23	Academic Years 2009-2010 & 2010-2011							
Upper-level mathematics courses	All Math Depts %	*SE*	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	College (BA) %	*SE*
Modern Algebra I	80	*3*	85	*4*	96	*3*	76	*5*
Modern Algebra II	27	*3*	59	*4*	49	*9*	16	*3*
Number Theory	51	*4*	72	*3*	61	*7*	45	*6*
Combinatorics	27	*3*	61	*4*	53	*8*	15	*4*
Actuarial Mathematics	13	*2*	22	*2*	23	*5*	10	*3*
Foundations/Logic	11	*2*	23	*3*	13	*5*	8	*3*
Discrete Structures	30	*3*	26	*4*	37	*8*	30	*4*
History of Mathematics	49	*4*	52	*2*	69	*7*	45	*5*
Geometry	74	*3*	83	*2*	78	*6*	71	*4*
Math for secondary teachers	35	*6*	35	*3*	62	*6*	30	*8*
Adv Calculus/ Real Analysis I	79	*4*	94	*3*	86	*3*	75	*5*
Adv Calculus/Real Analysis II	31	*4*	71	*4*	50	*7*	20	*6*
Adv Mathematics for Engineering/Physics	12	*2*	41	*3*	19	*7*	5	*2*
Advanced Linear Algebra	23	*3*	61	*7*	48	*6*	11	*3*
Introduction to Proofs	57	*5*	73	*5*	77	*7*	50	*7*

Table SP.23 (continued)	Academic Years 2009-2010 & 2010-2011							
Upper-level mathematics courses	All Math Depts %	*SE*	Univ (PhD) %	*SE*	Univ (MA) %	*SE*	College (BA) %	*SE*
Vector Analysis	11	*2*	26	*4*	15	*6*	7	*2*
Advanced Differential Equations	16	*3*	48	*4*	24	*6*	8	*3*
Partial Differential Equations	26	*2*	74	*4*	56	*9*	11	*3*
Numerical Analysis I and II	42	*4*	84	*4*	63	*5*	31	*5*
Applied Math/Modeling	37	*4*	60	*4*	41	*7*	33	*5*
Complex Variables	44	*4*	80	*4*	65	*8*	33	*5*
Topology	25	*3*	65	*3*	40	*8*	15	*3*
Mathematics of Finance	12	*2*	29	*4*	16	*5*	7	*2*
Codes & Cryptology	11	*2*	22	*3*	11	*3*	9	*2*
Biomathematics	12	*2*	36	*4*	21	*6*	5	*2*
Operations Research	17	*2*	31	*4*	27	*6*	13	*3*
Math senior seminar/Ind study	65	*3*	67	*5*	85	*5*	61	*4*
All other advanced level mathematics	25	*5*	46	*4*	43	*10*	17	*6*

Table SP.24 (SE's only)	AY 2009-10 & 2010-11				AY 2009-10 & 2010-2011		
Upper level statistics courses	All Math Depts %	PhD Math %	MA Math %	BA Math %	All Stat Depts %	PhD Stat %	MA Stat %
Mathematical Statistics	4	4	8	6	4	3	10
Probability	4	5	9	6	4	4	9
Combined Probability and Statistics	3	2	8	4	4	4	10
Stochastic Processes	1	3	3	2	4	4	9
Applied Statistical Analysis	2	4	5	3	4	4	10
Experimental Design	2	3	7	2	4	4	10
Regression & Correlation	2	4	7	2	4	4	7
Biostatistics	2	3	5	2	4	4	10
Nonparametric Statistics	1	2	4	1	4	4	10
Categorical Data Analysis	0	1	1	0	4	4	10
Sample Survey Design	0	1	2	0	4	4	10
Stat Software & Computing	1	3	6	1			
Stat Computing					4	4	10
Stat Software					4	4	14
Data Management	1	1	na	1	3	2	8
Bayesian Statistics					5	4	13
Statistical Consulting					5	4	13
Senior Seminar/ Independent Study	3	2	6	5	4	4	10

Table SP.25	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	13	48	27	1	1
SE	*1*	*9*	*3*	*1*	*1*
Students who went to graduate school in the mathematical or statistical sciences	15	12	17	23	29
SE	*1*	*3*	*3*	*2*	*5*
Students who went to graduate or professional school outside of mathematics/statistics	10	4	8	5	5
SE	*1*	*1*	*2*	*1*	*3*
Students who took jobs in business, government, etc.	27	19	30	41	45
SE	*2*	*4*	*3*	*4*	*5*
Students who had other plans known to the department	5	3	4	2	3
SE	*1*	*1*	*2*	*1*	*2*
Students whose plans are not known to the department	30	14	13	29	18
SE	*3*	*2*	*2*	*5*	*5*

Table SP.26	Four-year Mathematics Departments			Statistics Departments	
Percentage using various assessment tools	Univ (PhD) %	Univ (MA) %	College (BA) %	Univ (PhD) %	Univ (MA) %
Consult outside reviewers	53	48	31	42	80
SE	*4*	*8*	*5*	*5*	*9*
Survey program graduates	71	80	71	63	70
SE	*4*	*8*	*4*	*4*	*11*
Consult other departments	54	45	26	47	60
SE	*4*	*12*	*6*	*5*	*11*
Study data on students' progress in later courses	62	65	55	41	40
SE	*5*	*7*	*6*	*5*	*11*
Evaluate placement system	72	51	60	12	30
SE	*2*	*9*	*6*	*3*	*11*
Change undergraduate program due to assessment	78	76	69	61	80
SE	*5*	*12*	*6*	*4*	*9*

Table E.1 (SE's only)	Mathematics Departments				Statistics Departments		
Bachelors degrees in Math and Stat Depts	Univ (PhD)	Univ (MA)	College (BA)	Total Math	Univ (PhD)	Univ (MA)	Total Stat
Mathematics majors							
Men	268	113	384	482			
Women	228	195	531	609			
Total Math degrees	471	287	871	1031			
Mathematics Education							
Men	32	106	119	163			
Women	56	246	179	309			
Total Math Ed degrees	86	336	258	433			
Statistics Majors							
Men	26	11	22	36	32	45	55
Women	23	16	12	30	19	27	33
Total Stat degrees	48	26	28	61	50	66	83
Computer Science majors							
Men	117	48	307	332			
Women	16	14	77	80			
Total CS degrees	127	59	363	389			
Total degrees - Men	264	170	527	614	32	45	55
Total degrees - Women	230	396	513	688	19	27	33
Total all degrees	462	550	936	1180	50	66	83

	Fall 2010 enrollments (1000s)						
Table E.2 (SE's only)	Mathematics Departments				Statistics Departments		
	Univ (PhD)	Univ (MA)	Coll (BA)	Total Math Depts	Univ (PhD)	Univ (MA)	Total Stat Depts
Mathematics Courses							
Precollege	9	14	15	22			
Introductory (incl. Precalc)	17	21	22	35			
Calculus	13	19	26	35			
Advanced Mathematics	3	4	5	7			
Total Math courses	26	46	49	73			
Statistics Courses							
Elementary Statistics	7	4	14	16	3	5	6
Upper Statistics	1	1	2	3	1	5	5
Total Stat Courses	7	5	14	16	4	6	7
CS courses							
Lower CS	1	1	9	9			
Middle CS	0	1	2	2			
Upper CS	0	1	2	2			
Total CS courses	2	2	11	11			
Total all courses	30	49	58	82			

	Number of sections: Fall 2010						
Table E.3 (SE's only)	Mathematics Departments				Statistics Departments		
	Univ (PhD)	Univ (MA)	Coll (BA)	Total Math Depts	Univ (PhD)	Univ (MA)	Total Stat Depts
Mathematics Courses							
Precollege	284	537	583	841			
Introductory (incl. Precalc)	517	701	668	1098			
Calculus	279	512	791	982			
Advanced Mathematics	101	1043	240	1075			
Total Math courses	719	1821	1333	2369			
Statistics Courses							
Elementary Statistics	123	98	393	423	70	123	141
Upper Statistics	36	110	125	170	33	153	157
Total Stat Courses	137	187	403	465	86	205	223
CS courses							
Lower CS	35	46	340	345			
Middle CS	19	34	116	122			
Upper CS	25	24	158	162			
Total CS courses	76	98	533	547			
Total all courses	825	1910	1481	2554			

	Four-year Mathematics Departments		Two-year Mathematics Departments		Statistics Departments	
Table E.4	Distance-learning Enrollments	Other Enrollments	Distance-learning Enrollments	Other Enrollments	Distance-learning Enrollments	Other Enrollments
Precollege Level	8106	201089	87073	1062667		
SE	*2256*	*21544*	*22398*	*81875*		
College Algebra, Trigonometry, & Pre-Calculus	12021	431420	40898	309272		
SE	*1959*	*22913*	*10166*	*27694*		
Calculus I	2159	332632	3504	82192		
SE	*976*	*14965*	*917*	*5577*		
Calculus II	782	128104	285	30827		
SE	*362*	*13668*	*160*	*2571*		
Differential Equations & Linear Algebra	862	115837	298	10473		
SE	*314*	*9536*	*209*	*1401*		
Elementary Statistics	12368	218385	23363	110910	4171	77153
SE	*2477*	*15877*	*4494*	*9371*	*1774*	*4741*

Table E.5	Percentage of mathematics sections taught by						Percentage of statistics sections taught by						Percentage of CS sections taught by					
	TTE %	OFT %	PT %	GTA %	Ukn %	No. of Math sections	TTE [1] %	OFT %	PT %	GTA %	Ukn %	No. of Stat sections	TTE %	OFT %	PT %	GTA %	Ukn %	No. of CS sections
Math Depts																		
Univ (PhD)	33	24	14	17	13	19088	51	14	7	16	12	1530	42	30	15	11	2	201
SE	*1*	*1*	*1*	*1*	*1*	*719*	*3*	*2*	*1*	*2*	*2*	*137*	*10*	*8*	*6*	*4*	*1*	*76*
Univ (MA)	46	17	21`	6	11	16494	63	10	16	1	10	1628	89	0	11	0	0	307
SE	*4*	*4*	*5*	*1*	*7*	*1821*	*4*	*3*	*3*	*1*	*5*	*187*	*9*	*0*	*9*	*0*	*0*	*98*
Coll (BA)	57	11	23	0	10	29712	62	8	15	0	14	5943	58	18	22	0	2	3740
SE	*3*	*2*	*2*	*0*	*2*	*1333*	*3*	*1*	*3*	*0*	*3*	*403*	*5*	*5*	*6*	*0*	*1*	*533*
Total Math Depts	47	16	20	6	11	65294	60	9	14	3	13	9102	60	17	21	1	2	4248
SE	*2*	*1*	*2*	*0*	*2*	*2369*	*2*	*1*	*2*	*1*	*2*	*465*	*5*	*5*	*6*	*0*	*1*	*547*
Stat Depts																		
Univ (PhD)							38	13	7	15	27	1573						
SE							*2*	*1*	*1*	*2*	*2*	*86*						
Univ (MA)							65	9	10	2	14	1085						
SE							*5*	*2*	*2*	*1*	*5*	*205*						
Total Stat Depts							49	11	8	10	22	2658						
SE							*3*	*1*	*1*	*1*	*2*	*223*						

Table E.6	Number of precollege-level sections taught by					
	TTE	OFT	PT	GTA	Ukn	Total Sections
Mathematics Departments						
Univ (PhD)	31	353	666	365	162	1578
SE	*11*	*98*	*164*	*52*	*25*	*284*
Univ (MA)	279	620	769	279	128	2075
SE	*67*	*350*	*268*	*111*	*42*	*537*
Coll (BA)	1043	461	1806	27	362	3699
SE	*291*	*145*	*271*	*26*	*119*	*583*
Total	1353	1434	3241	671	652	7352
SE	*298*	*391*	*415*	*125*	*129*	*841*

Table E.7	Number of introductory-level sections taught by					
	TTE	OFT	PT	GTA	Ukn	Total Sections
Mathematics Departments						
Univ (PhD)	636	2128	1123	1616	766	6268
SE	*63*	*244*	*124*	*205*	*127*	*517*
Univ (MA)	2073	1611	2058	485	329	6556
SE	*315*	*267*	*590*	*139*	*156*	*701*
Coll (BA)	5529	1891	3761	0	1344	12525
SE	*519*	*333*	*280*	*0*	*227*	*668*
Total	8238	5631	6942	2100	2438	25349
SE	*611*	*492*	*665*	*248*	*303*	*1098*

Table E.8	Number of calculus-level sections taught by					
	TTE	OFT	PT	GTA	Ukn	Total Sections
Mathematics Departments						
Univ (PhD)	3120	2057	789	1289	721	7976
SE	*173*	*160*	*111*	*124*	*111*	*279*
Univ (MA)	3080	495	611	160	213	4559
SE	*329*	*83*	*127*	*83*	*75*	*512*
Coll (BA)	6743	839	1223	0	771	9575
SE	*551*	*198*	*567*	*0*	*411*	*791*
Total	12943	3391	2622	1448	1705	22110
SE	*665*	*268*	*591*	*149*	*433*	*982*

	Number of elementary-level statistics sections taught by					
Table E.9	TTE	OFT	PT	GTA	Ukn	Total Sections
Mathematics Departments						
Univ (PhD)	251	243	124	274	77	969
SE	*31*	*45*	*23*	*56*	*22*	*123*
Univ (MA)	641	185	293	19	70	1208
SE	*82*	*44*	*59*	*11*	*29*	*98*
Coll (BA)	2564	601	1130	28	691	5014
SE	*134*	*104*	*234*	*22*	*187*	*393*
Total	3456	1029	1547	320	838	7191
SE	*161*	*121*	*243*	*61*	*190*	*423*

	Number of lower-level CS sections taught by					
Table E.10	TTE	OFT	PT	GTA	Ukn	Total Sections
Mathematics Departments						
Univ (PhD)	25	29	29	15	4	101
SE	*7*	*13*	*13*	*8*	*3*	*35*
Univ (MA)	116	0	30	0	0	146
SE	*31*	*0*	*22*	*0*	*0*	*46*
Coll (BA)	1089	397	656	14	73	2230
SE	*156*	*136*	*232*	*14*	*38*	*340*
Total	1229	426	715	30	77	2477
SE	*160*	*136*	*234*	*16*	*38*	*345*

	Number of middle-level CS sections taught by					
Table E.11	TTE	OFT	PT	GTA	Ukn	Total Sections
Mathematics Departments						
Univ (PhD)	31	11	2	7	0	51
SE	*10*	*7*	*2*	*6*	*0*	*19*
Univ (MA)	92	0	0	0	0	92
SE	*34*	*0*	*0*	*0*	*0*	*34*
Coll (BA)	521	156	95	0	0	769
SE	*98*	*51*	*47*	*0*	*0*	*116*
Total	644	168	97	7	0	912
SE	*104*	*51*	*47*	*6*	*0*	*122*

Table E.12

Mathematics Departments	Sections taught by TTE	Total sections	Statistics Departments	Sections taught by TTE	Total sections
Advanced Math. courses					
Univ (PhD)	2500	3266			
SE	*96*	*101*			
Univ (MA)	2098	3304			
SE	*180*	*1043*			
Coll (BA)	3548	3913			
SE	*257*	*240*			
Total advanced mathematics	8146	10483			
SE	*328*	*1075*			
Advanced Stat. courses			Advanced Stat. courses		
Univ (PhD)	438	561	Univ (PhD)	324	452
SE	*24*	*36*		*22*	*33*
Univ (MA)	308	420	Univ (MA)	382	442
SE	*63*	*110*		*131*	*153*
Coll (BA)	721	929			
SE	*107*	*125*			
Total advanced statistics	1467	1910	Total advanced stat.	706	894
SE	*126*	*170*		*133*	*157*
Total all advanced courses	9613	12394			
SE	*360*	*1067*			

	Average section size Fall 2010							
	Mathematics Depts				Statistics Depts			All Depts.
Table E.13	Univ (PhD)	Univ (MA)	Coll (BA)	Overall Math	Univ (PhD)	Univ (MA)	Overall Stat	2010
Mathematics courses								
Precollege	36	30	23	27				
SE	*3*	*4*	*1*	*1*				
Introductory (incl. Precalc)	47	31	27	33				
SE	*2*	*1*	*1*	*1*				
Calculus	48	31	24	34				
SE	*2*	*1*	*2*	*1*				
Advanced Mathematics	20	12	12	14				
SE	*1*	*5*	*1*	*2*				
Statistics courses								
Elementary Statistics	52	32	26	30	49	38	45	33
SE	*5*	*3*	*1*	*1*	*3*	*3*	*2*	nr
Upper Statistics	27	13	12	17	33	27	30	21
SE	*2*	*4*	*2*	*1*	*1*	*2*	*1*	nr
CS courses								
Lower CS	29	22	20	21				
SE	*4*	*2*	*2*	*2*				
Middle CS	18	15	12	12				
SE	*5*	*2*	*1*	*1*				
Upper CS	15	16	11	11				
SE	*1*	*7*	*2*	*2*				

Table E.14	Average recitation section size		
For Lecture/Recitation Courses	Univ (PhD)	Univ (MA)	College (BA)
Calculus Courses			
Mainstream Calculus I	29	30	30
SE	*1*	*2*	*4*
Mainstream Calculus II	29	25	33
SE	*1*	*4*	*7*
Other Calculus I	30	19	15
SE	*1*	*10*	*7*
Elementary Statistics			
in Mathematics Depts	28	29	32
SE	*3*	*3*	*3*
in Statistics Depts	30	34	
SE	*2*	*3*	

Table E.15	Mathematics Departments				Statistics Departments		
Enrollments	Univ (PhD)	Univ (MA)	College (BA)	Total	Univ (PhD)	Univ (MA)	Total
Total freshmen enrolled in Fall 2010	346	209	336	891	65	57	122
SE	*18*	*36*	*37*	*55*	*9*	*12*	*15*
Total entering with AP credit	34	8	13	55	11	2	13
SE	*3*	*4*	*4*	*6*	*4*	*1*	*4*
Mean ratio of those with AP credit to total enrollment	0.13	0.03	0.04	0.05	0.18	0.04	0.12
SE	*0.01*	*0.01*	*0.01*	*0.01*	*0.05*	*0.01*	*0.03*

Table F.1	T	TE	OFT	PD	PT	T	TE	OFT	PD	PT	T	TE	OFT	PD	PT
Mathematics			PhD Depts					MA Depts					BA Depts		
Doc Fac	4604	986	1739	1001	370	2369	758	237	16	354	5218	1712	627	6	609
SE	*25*	*8*	*25*	*22*	*7*	*34*	*21*	*12*	*4*	*28*	*292*	*136*	*133*	*4*	*107*
Doc (F)	518	269	496	226	107	579	273	89	6	102	1408	546	158	0	220
SE	*4*	*3*	*8*	*6*	*3*	*14*	*10*	*7*	*3*	*10*	*114*	*61*	*55*	*0*	*49*
Non-doc Fac	16	8	756	0	731	65	17	749	1	1434	475	136	1821	0	2553
SE	*1*	*1*	*13*	*0*	*14*	*6*	*3*	*28*	*1*	*78*	*74*	*50*	*279*	*0*	*256*
Non-doc (F)	6	1	449	0	326	26	11	427	1	659	203	127	828	0	1263
SE	*0*	*0*	*8*	*0*	*7*	*3*	*3*	*18*	*1*	*36*	*41*	*49*	*105*	*0*	*154*
Tot Math	4621	994	2495	1001	1101	2434	775	986	18	1787	5693	1848	2448	6	3161
SE	*25*	*8*	*28*	*22*	*17*	*35*	*21*	*32*	*4*	*89*	*312*	*139*	*377*	*4*	*292*
Tot Math (F)	525	270	946	226	433	605	284	516	7	761	1611	673	987	0	1484
SE	*4*	*3*	*12*	*6*	*8*	*14*	*9*	*19*	*3*	*38*	*130*	*76*	*124*	*0*	*160*
Stat Depts			PhD Depts					MA Depts							
Doc Fac	579	207	184	71	84	145	57	20	15	9					
SE	*12*	*6*	*8*	*6*	*8*	*11*	*9*	*7*	*8*	*6*					
Doc (F)	95	84	61	18	15	20	18	7	7	0					
SE	*3*	*3*	*3*	*2*	*1*	*4*	*5*	*5*	*5*	*0*					
Non-doc Fac	1	2	31	0	21	2	0	37	0	20					
SE	*0*	*1*	*3*	*0*	*2*	*2*	*0*	*8*	*0*	*8*					
Non-doc (F)	0	0	20	0	11	2	0	20	0	7					
SE	*0*	*0*	*1*	*0*	*1*	*2*	*0*	*6*	*0*	*3*					
Tot Stat	580	209	215	71	105	147	57	57	15	29					
SE	*12*	*6*	*9*	*6*	*8*	*12*	*9*	*10*	*8*	*12*					
Tot Stat (F)	95	84	82	18	26	22	18	26	7	7					
SE	*3*	*3*	*4*	*2*	*2*	*3*	*5*	*8*	*5*	*3*					

Standard Error Table for F.1.1

Table F.1.1	T	TE	OFT	PD	PT
Mathematics	PhD Depts + MA Depts + BA Depts				
Doc Fac	12191	3456	2603	1024	1332
SE	*295*	*137*	*136*	*23*	*111*
Doc (F)	2505	1088	744	232	429
SE	*115*	*62*	*56*	*6*	*50*
Non-doc Fac	557	161	3326	1	4718
SE	*74*	*50*	*280*	*1*	*268*
Non-doc (F)	235	139	1705	1	2249
SE	*41*	*49*	*107*	*1*	*158*
Tot Math	12747	3617	5929	1025	6050
SE	*315*	*141*	*380*	*23*	*306*
Tot Math (F)	2740	1227	2449	233	2678
SE	*131*	*77*	*126*	*6*	*164*
Stat Depts					
Doc Fac	724	264	204	86	93
SE	*16*	*11*	*11*	*10*	*10*
Doc (F)	115	102	68	24	15
SE	*5*	*6*	*6*	*5*	*1*
Non-doc Fac	3	2	69	0	41
SE	*2*	*1*	*9*	*0*	*8*
Non-doc (F)	2	0	40	0	18
SE	*2*	*0*	*6*	*0*	*4*
Tot Stat	727	267	272	86	133
SE	*17*	*11*	*13*	*10*	*15*
Tot Stat (F)	117	102	108	24	32
SE	*5*	*6*	*9*	*5*	*4*

	Univ (PhD)				Univ (MA)				Coll (BA)				Total			
Table F.2	T	TE	OFT	PD	T	TE	OFT	PD	T	TE	OFT	PD	T	TE	OFT	PD
Men, 2010	4096	724	1549	775	1829	490	470	10	4082	1175	1461	6	10007	2390	3480	792
SE	*24*	*6*	*20*	*18*	*29*	*18*	*19*	*2*	*233*	*114*	*284*	*4*	*236*	*115*	*285*	*18*
Women, 2010	525	270	946	226	605	284	516	7	1611	673	987	0	2740	1227	2449	233
SE	*4*	*3*	*12*	*6*	*14*	*9*	*19*	*3*	*130*	*76*	*124*	*0*	*131*	*77*	*126*	*6*
Total, 2010	4621	994	2495	1001	2434	775	986	18	5693	1848	2448	6	12747	3617	5929	1025
SE	*25*	*8*	*28*	*22*	*35*	*21*	*32*	*4*	*312*	*139*	*377*	*4*	*315*	*141*	*380*	*23*

	Univ (PhD)				Univ (MA)				Total			
Table F.3	T	TE	OFT	PD	T	TE	OFT	PD	T	TE	OFT	PD
Men, 2010	485	125	133	53	125	40	31	9	610	165	164	62
SE	*10*	*4*	*6*	*4*	*13*	*7*	*7*	*6*	*16*	*8*	*10*	*8*
Women, 2010	95	84	82	18	22	18	26	7	117	102	108	24
SE	*3*	*3*	*4*	*2*	*3*	*5*	*8*	*5*	*5*	*6*	*9*	*5*
Total, 2010	580	209	215	71	147	57	57	15	727	267	272	86
SE	*12*	*6*	*9*	*6*	*12*	*9*	*10*	*8*	*17*	*11*	*13*	*10*

Standard Error Tables for F.4

Table F.4	<30	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>69
Total Univ (PhD)	1	8	12	12	12	13	14	12	9	7
SE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Total Univ (MA)	2	9	12	14	14	14	14	10	7	4
SE	*0*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*0*
Total Coll (BA)	4	10	11	12	16	13	11	13	8	2
SE	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*0*

Standard Error Tables for F.5 (Full-time) and F.6 (Part-time)

Table F.5	Asian	Black	Mex Am	White	Oth/Unk	Table F.6	Asian	Black	Mex Am	White	Oth/Unk
PhD Math						**PhD Math**					
FT Men	13	1	2	59	3	PT Men	5	2	1	47	6
SE	*0*	*0*	*0*	*0*	*0*	SE	*0*	*0*	*0*	*1*	*0*
FT Women	4	0	1	16	1	PT Women	4	1	1	30	3
SE	*0*	*0*	*0*	*0*	*0*	SE	*0*	*0*	*0*	*1*	*0*
MA Math						**MA Math**					
FT Men	12	4	2	47	2	PT Men	3	4	2	40	9
SE	*1*	*0*	*0*	*1*	*0*	SE	*0*	*1*	*0*	*1*	*1*
FT Women	5	2	1	26	1	PT Women	3	3	2	29	6
SE	*0*	*0*	*0*	*1*	*0*	SE	*0*	*0*	*0*	*1*	*0*
BA Math						**BA Math**					
FT Men	4	2	2	57	2	PT Men	2	1	0	43	8
SE	*1*	*0*	*0*	*2*	*0*	SE	*0*	*0*	*0*	*3*	*1*
FT Women	2	1	1	28	1	PT Women	1	1	0	38	5
SE	*0*	*0*	*0*	*1*	*0*	SE	*0*	*1*	*0*	*3*	*1*
All Stat						**All Stat**					
FT Men	20	1	1	49	3	PT Men	2	4	0	65	5
SE	*1*	*0*	*0*	*1*	*0*	SE	*0*	*1*	*0*	*3*	*1*
FT Women	8	0	1	15	2	PT Women	1	0	0	18	6
SE	*1*	*0*	*0*	*1*	*0*	SE	*0*	*0*	*0*	*2*	*2*

Table FY.1	Percentage of sections taught by															Avg. Sec. Size			Enroll. (1000s)		
	TTE %			OFT %			PT %			GTA %			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
Mathematics for Liberal Arts	16	34	40	24	22	18	17	38	30	20	0	0	23	6	12	43	33	28	43	38	60
SE	*3*	*6*	*6*	*4*	*8*	*5*	*3*	*8*	*7*	*3*	*0*	*0*	*6*	*3*	*4*	*3*	*2*	*1*	4	7	11
Finite Mathematics	10	32	43	47	26	5	14	35	40	22	0	0	7	7	12	59	29	25	27	8	25
SE	*3*	*7*	*5*	*3*	*10*	*3*	*3*	*14*	*6*	*4*	*0*	*0*	*3*	*5*	*5*	*5*	*2*	*3*	4	3	5
Business Math (non-calculus)	10	25	66	40	24	12	17	48	21	25	0	0	9	3	2	52	32	20	22	12	11
SE	*2*	*9*	*11*	*10*	*16*	*7*	*4*	*10*	*7*	*4*	*0*	*0*	*5*	*3*	*2*	*8*	*4*	*4*	5	4	3
Math for Elem Sch Teachers	20	57	53	35	21	7	15	19	27	14	0	0	16	2	12	29	28	24	15	29	36
SE	*4*	*5*	*5*	*4*	*6*	*2*	*3*	*4*	*5*	*3*	*0*	*0*	*8*	*1*	*4*	*1*	*1*	*1*	2	5	5
College Algebra	5	20	34	39	27	18	16	26	32	28	19	0	12	7	16	47	34	30	88	55	99
SE	*1*	*3*	*4*	*3*	*8*	*4*	*2*	*6*	*5*	*3*	*5*	*0*	*2*	*5*	*5*	*3*	*2*	*1*	9	7	10
Trigonometry	8	36	59	27	34	13	15	19	25	42	0	0	7	11	3	45	30	32	16	9	16
SE	*3*	*6*	*9*	*6*	*10*	*4*	*5*	*7*	*6*	*6*	*0*	*0*	*2*	*8*	*3*	*6*	*3*	*5*	3	2	4
College Alg & Trig (combined)	9	33	31	33	27	14	14	23	55	33	0	0	11	17	1	49	38	31	18	7	12
SE	*2*	*18*	*7*	*8*	*10*	*10*	*3*	*7*	*12*	*4*	*0*	*0*	*4*	*10*	*1*	*2*	*5*	*5*	3	3	6
Elem Functions, Precalculus	5	25	48	33	23	17	27	36	30	28	13	0	8	3	5	47	30	25	46	28	39
SE	*1*	*5*	*6*	*3*	*5*	*6*	*3*	*11*	*6*	*5*	*12*	*0*	*2*	*2*	*2*	*4*	*2*	*1*	4	5	5
Intro to Math Modeling	8	62	75	20	0	7	43	38	9	23	0	0	6	0	9	41	40	23	4	1	3
SE	*5*	*40*	*15*	*1*	*0*	*6*	*13*	*40*	*6*	*8*	*0*	*0*	*4*	*0*	*8*	*11*	*10*	*4*	2	1	1

Table FY.2	Univ (PhD)		Univ (MA)		College (BA)		Total	
Practices used in teaching College Algebra	% of all sections, nationally	Mean of department-reported percentages	% of all sections, nationally	Mean of department-reported percentages	% of all sections, nationally	Mean of department-reported percentages	% of all sections, nationally	Mean of department-reported percentages
a. Emphasize problem solving in the modeling sense	38	38	64	60	40	54	44	53
SE	*6*	*4*	*15*	*11*	*7*	*7*	*5*	*5*
b. Include elementary data analysis	35	24	19	27	25	26	27	26
SE	*8*	*6*	*9*	*12*	*8*	*8*	*5*	*6*
c. Include writing assignments	11	13	21	15	17	28	16	23
SE	*3*	*3*	*11*	*7*	*5*	*7*	*3*	*5*
d. Include small group activities	26	24	44	38	39	47	36	42
SE	*3*	*4*	*14*	*8*	*8*	*9*	*5*	*6*
e. Include small group projects	11	3	32	20	23	27	20	22
SE	*1*	*0*	*18*	*11*	*7*	*9*	*5*	*6*
f. Include class presentations	4	5	4	4	14	15	9	12
SE	*1*	*2*	*2*	*2*	*6*	*6*	*3*	*4*
g. Use graphing calculators	46	46	77	78	73	75	66	72
SE	*6*	*5*	*14*	*10*	*7*	*5*	*5*	*4*
h. Use spreadsheets	1	1	10	0	7	11	5	8
SE	*0*	*1*	*9*	*0*	*4*	*7*	*3*	*5*
i. Use online homework generating and grading packages	76	71	75	60	58	54	68	58
SE	*4*	*4*	*9*	*7*	*8*	*9*	*4*	*6*
j. Use classroom response systems (e.g., clickers)	13	10	0	0	10	9	9	8
SE	*3*	*3*	*0*	*0*	*6*	*6*	*3*	*4*
k. Primarily use a traditional approach	60	64	65	68	69	72	65	70
SE	*6*	*5*	*11*	*10*	*7*	*6*	*5*	*4*

Table FY.3	Percentage of sections taught by															Avg. Sec. Size			Enroll. (1000s)		
	TTE %			OFT %			PT %			GTA %			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 / recitation	33	82	50	29	18	8	12	0	32	19	0	0	7	0	10	71	39	31	70	8	28
SE	*3*	*5*	*22*	*3*	*5*	*8*	*3*	*0*	*26*	*3*	*0*	*0*	*1*	*0*	*8*	*5*	*9*	*4*	*6*	*4*	*12*
Regular section <31	41	56	70	20	22	17	5	12	11	24	0	0	9	11	2	24	25	20	7	7	35
SE	*6*	*9*	*4*	*4*	*8*	*3*	*2*	*4*	*4*	*5*	*0*	*0*	*4*	*8*	*1*	*1*	*2*	*1*	*1*	*1*	*5*
Regular section >30	25	60	63	35	8	2	9	22	13	19	5	0	11	4	22	39	35	35	34	26	18
SE	*4*	*6*	*15*	*4*	*3*	*1*	*2*	*4*	*7*	*4*	*5*	*0*	*2*	*4*	*16*	*1*	*2*	*2*	*3*	*5*	*5*
Total Mainstream Calculus I	31	63	63	30	13	12	10	16	17	20	3	0	9	5	8	52	33	25	110	41	82
SE	*2*	*4*	*9*	*2*	*4*	*2*	*1*	*3*	*8*	*2*	*3*	*0*	*2*	*2*	*5*	*3*	*2*	*1*	-	-	-
Mainstream Calculus II																					
Lecture / recitation	48	97	45	24	3	9	11	0	44	10	0	0	7	0	2	72	39	34	37	3	21
SE	*3*	*2*	*24*	*3*	*2*	*12*	*3*	*0*	*34*	*4*	*0*	*0*	*2*	*0*	*3*	*5*	*7*	*7*	*4*	*1*	*13*
Regular section <31	49	71	83	20	11	6	9	1	5	21	0	0	1	16	6	24	21	18	5	3	14
SE	*4*	*8*	*5*	*6*	*4*	*2*	*2*	*1*	*3*	*4*	*0*	*0*	*1*	*8*	*2*	*1*	*1*	*2*	*1*	*1*	*3*
Regular section >30	39	62	55	31	9	8	9	2	5	12	23	0	9	4	32	40	35	35	19	18	9
SE	*4*	*15*	*20*	*3*	*5*	*8*	*2*	*2*	*3*	*2*	*22*	*0*	*3*	*4*	*26*	*1*	*2*	*2*	*2*	*3*	*3*
Total Mainstream Calculus II	45	67	64	26	9	8	10	2	18	13	16	0	7	6	10	51	32	26	61	23	44
SE	*2*	*10*	*13*	*2*	*4*	*3*	*2*	*1*	*13*	*2*	*15*	*0*	*1*	*2*	*7*	*3*	*1*	*3*	-	-	-
Total Mainstream Calculus I & II	36	64	64	29	11	10	10	11	18	17	8	0	8	5	9	52	33	26	171	65	126
SE	*2*	*4*	*10*	*2*	*3*	*3*	*2*	*2*	*10*	*2*	*4*	*0*	*1*	*2*	*6*	*2*	*1*	*2*	-	-	-

	Mathematics Departments			
Table FY.4	Univ (PhD)	Univ (MA)	College (BA)	Total
Percentage that offer an Honors Calculus course	65	26	10	20
SE	*4*	*6*	*3*	*2*
Of those that offer Honors Calculus, the percentage of depts that offer if for:				
Calculus I	71	73	66	69
SE	*5*	*19*	*24*	*10*
Calculus II	88	85	97	91
SE	*3*	*15*	*3*	*3*
Calculus III	74	32	17	48
SE	*4*	*18*	*18*	*8*
Of those that offer Honors Calculus, compared to Mainstream Calculus, the percentage of departments where Honors Calculus:				
Contains more theory	95	84	84	89
SE	*2*	*11*	*13*	*5*
Contains more applications	57	59	88	69
SE	*6*	*20*	*9*	*6*
Is aimed at mathematics majors	32	56	43	40
SE	*4*	*17*	*24*	*9*
Requires a test or placement mechanism as a prerequisite	75	95	59	72
SE	*4*	*4*	*23*	*9*
Can be selected by any interested student	18	5	17	15
SE	*4*	*4*	*10*	*4*

Table FY.5	Percentage of sections taught by															Avg. Sec. Size			Enroll. (1000s)		
	TTE %			OFT %			PT %			GTA %			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
Non-Mainstream Calculus I																					
Lecture / recitation	31	60	29	28	20	39	17	20	26	15	0	0	9	0	6	74	33	29	27	3	5
SE	*5*	*16*	*15*	*4*	*8*	*14*	*6*	*8*	*12*	*5*	*0*	*0*	*3*	*0*	*6*	*8*	*3*	*2*			
Regular section <31	16	43	41	21	23	15	11	20	32	45	2	0	7	13	12	27	25	22	6	3	7
SE	*8*	*11*	*10*	*9*	*7*	*9*	*5*	*14*	*10*	*21*	*1*	*0*	*3*	*8*	*7*	*3*	*1*	*2*			
Regular section >30	18	31	44	33	16	13	13	38	25	24	0	0	13	15	18	52	39	36	27	15	5
SE	*4*	*9*	*9*	*5*	*10*	*7*	*3*	*6*	*18*	*3*	*0*	*0*	*5*	*14*	*15*	*3*	*6*	*3*			
Total Non-Mainstream Calculus I	22	38	39	29	18	20	14	32	29	25	0	0	10	12	12	54	35	27	60	22	17
SE	*3*	*6*	*7*	*5*	*6*	*8*	*3*	*5*	*6*	*5*	*0*	*0*	*3*	*8*	*4*	*3*	*4*	*1*			
Total Non-Mainstream Calculus II	18	22	60	21	32	0	12	44	10	25	0	0	24	3	31	35	33	19	12	5	5
SE	*3*	*12*	*21*	*3*	*5*	*0*	*4*	*10*	*9*	*7*	*0*	*0*	*9*	*3*	*27*	*5*	*3*	*8*			
Total Non-Mainstream Calculus I & II	21	35	45	27	21	14	13	34	23	25	0	0	13	11	18	50	35	25	72	27	23
SE	*3*	*6*	*6*	*3*	*5*	*6*	*3*	*5*	*6*	*5*	*0*	*0*	*3*	*6*	*10*	*3*	*3*	*3*			

Table FY.6	Percentage of sections taught by															Avg. Sec. Size			Enroll. (1000s)		
	TTE %			OFT %			PT %			GTA %			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
Elementary Stat. (F1) (non-calculus)																					
Lecture / recitation	36	66	43	22	18	3	10	3	32	21	0	0	11	13	21	48	38	30	6	6	34
SE	*4*	*10*	*6*	*10*	*11*	*2*	*4*	*3*	*12*	*12*	*0*	*0*	*6*	*8*	*11*	*7*	*7*	*4*			
Regular section <31	6	39	50	28	22	16	6	35	27	29	1	0	31	3	8	27	20	22	4	4	46
SE	*2*	*10*	*6*	*7*	*6*	*4*	*3*	*16*	*6*	*5*	*1*	*0*	*8*	*3*	*3*	*4*	*3*	*1*			
Regular section >30	23	50	56	25	15	16	20	30	8	31	0	0	1	5	21	65	38	37	28	16	30
SE	*4*	*5*	*6*	*6*	*6*	*6*	*3*	*8*	*3*	*5*	*0*	*0*	*1*	*4*	*4*	*10*	*4*	*1*			
Total Elementary Statistics	22	50	49	25	18	12	15	26	24	29	0	0	9	6	14	55	33	27	38	27	110
SE	*3*	*5*	*3*	*4*	*4*	*2*	*2*	*6*	*4*	*4*	*0*	*0*	*3*	*3*	*4*	*7*	*4*	*1*			
Probability & Statistics (non-Calculus) (F3 + F4)	30	52	47	17	10	7	15	24	21	20	5	7	18	9	18	57	32	25	4	7	9
SE	*9*	*11*	*10*	*5*	*5*	*4*	*5*	*9*	*13*	*7*	*3*	*6*	*7*	*6*	*9*	*11*	*3*	*3*			
Total, all non-calculus elementary probability & statistics courses	23	51	49	24	16	12	15	25	24	28	1	1	10	7	14	55	33	27	42	34	119
SE	*3*	*4*	*3*	*4*	*4*	*2*	*2*	*5*	*4*	*4*	*1*	*1*	*3*	*3*	*3*	*6*	*3*	*1*			

	Mathematics Departments							
Table FY.7	Univ (PhD)	*SE*	Univ (MA)	*SE*	College (BA)	*SE*	Total	*SE*
Percentage of departments that offer elementary statistics course with no calculus prerequisite	58	*3*	90	*6*	87	*4*	84	*3*
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%	33	*7*	29	*8*	15	*5*	18	*4*
21-40%	18	*6*	15	*8*	30	*5*	27	*4*
41-60%	26	*5*	14	*6*	20	*5*	19	*4*
61-80%	5	*2*	12	*6*	18	*4*	16	*4*
81-100%	18	*4*	30	*11*	18	*4*	20	*4*
Percentage of departments where the majority of sections use in-class demonstrations for the following percentages of class sessions:								
0-20%	36	*4*	23	*7*	10	*3*	14	*2*
21-40%	21	*5*	9	*5*	33	*6*	29	*5*
41-60%	20	*5*	16	*6*	11	*3*	13	*3*
61-80%	6	*3*	16	*8*	29	*5*	25	*4*
81-100%	16	*4*	35	*10*	17	*3*	19	*3*
Percentage of departments using the following kinds of technology in the majority of sections:								
Graphing calculators	52	*5*	79	*5*	72	*5*	71	*4*
Statistical packages	49	*5*	63	*8*	54	*5*	55	*4*
Educational software	26	*5*	16	*6*	18	*4*	19	*3*
Applets	20	*5*	15	*6*	17	*5*	17	*4*
Spreadsheets	57	*7*	55	*8*	50	*6*	51	*5*
Web-based resources	61	*4*	53	*10*	54	*8*	54	*7*
Classroom response systems	11	*3*	9	*4*	10	*4*	10	*3*
Percentage of departments where the majority of sections require assessments beyond homework, exams, and quizzes	24	*6*	51	*8*	46	*6*	45	*5*

	Statistics Departments					
Table FY.8	Univ (PhD)	*SE*	Univ (MA)	*SE*	Total	*SE*
Percentage of departments that offer Introductory Statistics for non-majors/minors with no calculus prerequisite	90	*3*	85	*7*	88	*3*
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%	6	*2*	20	*9*	9	*3*
21-40%	16	*3*	20	*9*	17	*3*
41-60%	21	*3*	0	.	16	*3*
61-80%	24	*4*	10	*7*	20	*3*
81-100%	34	*4*	50	*12*	38	*4*
Percentage of departments where the majority of sections use in-class demonstrations in the following percentages of class sessions:						
0-20%	22	*4*	10	*7*	19	*3*
21-40%	16	*3*	40	*11*	22	*4*
41-60%	21	*4*	0	.	16	*3*
61-80%	16	*3*	20	*9*	17	*3*
81-100%	24	*4*	30	*11*	26	*4*
Percentage of departments using following kinds of technology in the majority of sections						
Graphing calculators	45	*4*	33	*12*	43	*4*
Statistical packages	89	*3*	80	*9*	87	*3*
Educational software	38	*4*	44	*12*	40	*4*
Applets	31	*4*	44	*12*	34	*4*
Spreadsheets	45	*4*	56	*12*	48	*4*
Web-based resources	79	*4*	60	*11*	74	*4*
Classroom response systems	26	*4*	40	*11*	29	*4*
Percentage of departments where the majority of sections require assessments beyond homework, exams, and quizzes	31	*4*	50	*12*	36	*4*

	Percentage of sections taught by															
Table FY.9	TTE %		OFT (w PhD) %		OFT (w/o PhD) %		PT %		GTA %		Unk. %		Avg. Sec. Size		Enroll. (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)																
Lecture / recitation	19	27	11	5	13	5	11	17	18	5	27	41	65	54	29	9
SE	*2*	*9*	*2*	*3*	*2*	*4*	*2*	*10*	*5*	*4*	*3*	*26*	*8*	*10*		
Regular section <31	32	49	17	1	0	27	13	23	15	0	24	0	16	26	1	4
SE	*6*	*19*	*5*	*2*	*0*	*14*	*4*	*7*	*5*	*0*	*5*	*0*	*2*	*5*		
Regular section >30	17	63	5	0	4	9	4	24	39	0	31	4	47	29	10	4
SE	*3*	*10*	*2*	*0*	*1*	*8*	*2*	*4*	*6*	*0*	*6*	*4*	*2*	*4*		
Total Introductory Statistics (non-Calculus)	19	44	10	2	9	13	9	21	24	2	28	17	55	37	40	17
SE	*2*	*8*	*2*	*1*	*1*	*6*	*1*	*3*	*4*	*1*	*3*	*11*	*4*	*3*		
Introductory Statistics (calculus prerequisite for non-majors/minors)																
Lecture / recitation	36	32	14	32	4	0	11	5	13	0	23	32	50	34	6	1
SE	*5*	*13*	*2*	*10*	*2*	*0*	*2*	*9*	*4*	*0*	*4*	*10*	*5*	*22*		
Regular section <31	32	67	10	6	1	6	3	3	6	11	47	8	15	44	1	3
SE	*10*	*22*	*4*	*3*	*0*	*5*	*2*	*2*	*1*	*9*	*16*	*5*	*5*	*15*		
Regular section >30	39	76	13	6	1	0	17	6	17	6	13	6	36	42	4	1
SE	*4*	*8*	*2*	*4*	*0*	*0*	*4*	*5*	*3*	*5*	*2*	*4*	*3*	*9*		
Total Introductory Statistics (Calculus)	36	59	13	13	2	3	11	4	12	7	26	15	36	40	11	5
SE	*4*	*11*	*1*	*5*	*1*	*2*	*2*	*2*	*2*	*4*	*4*	*5*	*3*	*7*		

Table TYE.1 See NCES source.

Table TYE.2	2010
Mathematics & Statistics enrollments in TYCs	2,105,000
SE	111,000

Table TYE.3

Course Number	Type of course	2010	*SE*
	Precollege level		
1	Arithmetic & Basic Mathematics	146	*22*
2	Pre-algebra	226	*30*
3	Elementary Algebra (High School level)	428	*38*
4	Intermediate Algebra (High School level)	344	*25*
5	Geometry (High School level)	6	*1*
	Precalculus level		
6	College Algebra (above Intermediate Algebra)	230	*28*
7	Trigonometry	45	*6*
8	College Algebra & Trigonometry (combined)	11	*3*
9	Introduction to Mathematical Modeling	18	*9*
10	Precalculus/Elem Functions/Analytic Geometry	64	*7*
	Calculus level		
11	Mainstream Calculus I	65	*5*
12	Mainstream Calculus II	29	*2*
13	Mainstream Calculus III	15	*1*
14	Non-mainstream Calculus I	20	*3*
15	Non-mainstream Calculus II	2	*1*
16	Differential Equations	6	*1*
	Other mathematics courses		
17	Linear Algebra	5	*1*
18	Discrete Mathematics	2	*1*
19	Elementary Statistics (with or w/o Probability)	134	*12*
20	Probability (with or w/o Statistics)	3	*1*
21	Finite Mathematics	18	*4*
22	Mathematics for Liberal Arts	91	*12*
23	Mathematics for Elementary School Teachers I	21	*3*
24	Mathematics for Elementary School Teachers II	8	*1*
25	Other Mathematics Courses for Teacher Preparation	1	*0*
26	Business Mathematics (not transferable)	16	*5*
27	Business Mathematics (transferable)	4	*2*
28	Technical Math (non-calculus-based)	17	*8*
29	Technical Math (calculus-based)	1	*1*
30	Other Mathematics Courses (not transferable)	33	*17*
31	Other Mathematics Courses (transferable)	14	*5*
	Total all Two-year College math courses	2024	*109*

Table TYE.4		
Course numbers	Type of course	2010
1-5	Precollege Level	1150
	SE	*86*
6-10	Precalculus Level	368
	SE	*31*
11-16	Calculus Level	138
	SE	*10*
19-20	Statistics, Probability	137
	SE	*12*
17-18 & 21-31	Remaining Courses	231
	SE	*25*
1-31	Total, all courses	2024
	SE	*109*

Table TYE.5

Course number	Type of course	Fall 2010	*SE*
1	Arithmetic & Basic Mathematics	50	*5*
2	Pre-algebra	49	*6*
3	Elementary Algebra (High School level)	82	*4*
4	Intermediate Algebra (High School level)	79	*5*
5	Geometry (High School level)	7	*2*
6	College Algebra (above Intermediate Algebra)	76	*7*
7	Trigonometry	55	*6*
8	College Algebra & Trigonometry (combined)	12	*3*
9	Introduction to Mathematical Modeling	9	*3*
10	Precalculus/ Elementary Functions/ Analytic Geometry	53	*6*
11	Mainstream Calculus I	79	*6*
12	Mainstream Calculus II	61	*6*
13	Mainstream Calculus III	56	*5*
14	Non-mainstream Calculus I	25	*4*
15	Non-mainstream Calculus II	5	*2*
16	Differential Equations	21	*3*
17	Linear Algebra	19	*3*
18	Discrete Mathematics	11	*3*
19	Elementary Statistics (with or w/o Probability)	73	*8*
20	Probability (with or w/o Statistics)	5	*2*
21	Finite Mathematics	27	*4*
22	Mathematics for Liberal Arts	44	*5*
23	Mathematics for Elementary School Teachers I	55	*5*
24	Mathematics for Elementary School Teachers II	27	*5*
25	Other Mathematics Courses for Teacher Preparation	2	*1*
26	Business Mathematics (not transferable)	20	*5*
27	Business Mathematics (transferable)	6	*2*
28	Technical Mathematics (non-calculus-based)	26	*6*
29	Technical Mathematics (calculus-based)	3	*2*
30	Other Mathematics Courses (not transferable)	19	*4*
31	Other Mathematics Courses (transferable)	18	*6*

Table TYE.6			
Course number	Type of course	2010	*SE*
11	Mainstream Calculus I	79	*6*
16	Differential Equations	21	*3*
17	Linear Algebra	19	*3*
18	Discrete Mathematics	11	*3*
19	Elementary Statistics (with or w/o Probability)	73	*8*
21	Finite Mathematics	27	*4*
22	Mathematics for Liberal Arts	44	*5*
23	Mathematics for Elementary School Teachers I	55	*5*
28	Technical Mathematics (non-calculus-based)	26	*6*
29	Technical Mathematics (calculus-based)	3	*2*

Table TYE.7		2010			
Course numbers	Type of course	avg. sec. size	*SE*	% of sections with size > 30	*SE*
1-5	Precollege Level	24.0	*1*	20%	*4*
6-10	Precalculus Level	26.0	*1*	34%	*4*
11-16	Calculus Level	21.0	*4*	25%	*5*
19-20	Elem. Statistics, Probability	28.0	*1*	38%	*5*
1-31	Total, all courses	24.0	*1*	23%	*3*

Table TYE.7.1		2010			
Course numbers	Type of course	avg. sec. size	*SE*	% of sections with size > 30	*SE*
1-5	Precollege Level	23	*2*	23%	*6*
6-10	Precalculus Level	22	*1*	12%	*4*
11-16	Calculus Level	15	*2*	0%	*0*
19-20	Elem. Statistics, Probability	24	*1*	15%	*4*
1-31	Total, all courses	22	*1*	10%	*3*

Table TYE.8

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

Table TYE.8.1

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

Table TYE.9		2010					
Course number	Type of course	# of sections	*SE*	# of sec. taught by PT fac.	*SE*	% of sec. taught by PT fac.	*SE*
1-5	Precollege level	45131	*4058*	26069	*2791*	58%	*5*
6-10	Precalculus level	12588	*1076*	3940	*453*	31%	*3*
11-13	Mainstream Calculus	5155	*898*	558	*83*	11%	*3*
14-15	Non-mainstream Calculus	959	*223*	259	*70*	27%	*8*
16-18	Advanced level	616	*70*	69	*25*	11%	*4*
19-20	Statistics, Probability	4090	*364*	1573	*192*	38%	*3*
21-27	Service courses	5673	*548*	2258	*268*	40%	*3*
28-29	Technical mathematics	1533	*634*	264	*83*	17%	*11*
30-31	Other mathematics courses	2272	*707*	974	*533*	43%	*18*
1-31	Total, all courses	78018	*5634*	35965	*3198*	46%	*4*

Table TYE.10		% of sections taught that							
Course Nbr.	Type of course	Use computer algebra system %	SE	Use commerc. produced electronic instruct. packages %	SE	taught mostly by the standard lecture method %	SE	Total # of on-campus sec. in fall 2010	SE
1	Arithmetic & Basic Mathematics	8	4	32	8	66	8	5652	940
2	Pre-algebra	9	5	40	10	54	11	10183	1784
3	Elementary Algebra (High School level)	7	3	33	5	76	4	16236	1443
4	Intermediate Algebra (High School level)	8	3	31	5	69	5	12843	1101
5	Geometry (High School level)	0	0	0	0	77	18	217	64.95
6	College Algebra (above Intermed. Algebra)	6	4	34	6	79	6	7628	962.5
7	Trigonometry	4	3	23	6	91	3	1540	183.9
8	College Algebra & Trigonometry (combined)	12	12	20	11	89	5	413	141.5
9	Introduction to Mathematical Modeling	0	0	11	10	95	6	618	298.8
10	Precalculus/Elem Functions/Analytic Geome	2	1	20	6	84	5	2389	261.9
11	Mainstream Calculus I	9	3	12	5	66	18	3166	823.6
12	Mainstream Calculus II	9	3	11	3	85	5	1223	98
13	Mainstream Calculus III	20	7	8	3	85	5	766	63
14	Non-mainstream Calculus I	0	0	22	10	72	15	895	216
15	Non-mainstream Calculus II	0	0	0	0	83	8	64	24
16	Differential Equations	14	5	6	4	81	7	266	34.34
17	Linear Algebra	8	8	8	8	87	6	239	41.03
18	Discrete Mathematics	0	0	0	0	77	12	111	25
19	Elementary Statistics (with or w/o Probability)	2	1	19	5	81	5	3965	359.2
20	Probability (with or w/o Statistics)	15	17	53	29	100	0	126	61
21	Finite Mathematics	4	4	26	12	82	8	703	126.3
22	Mathematics for Liberal Arts	1	1	12	4	88	5	2857	402.4
23	Mathematics for Elementary School Teachers I	7	3	4	2	71	8	973	148.1
24	Mathematics for Elementary School Teacher	5	5	3	3	80	8	366	66.03
25	Other Mathematics Courses for Teacher Preparation	0	0	0	0	86	11	28	12.03
26	Business Math (not transferable)	3	3	4	2	68	14	602	170.9
27	Business Math (transferable)	0	0	20	13	91	7	143	51
28	Technical Math (non-calculus-based)	1	2	10	8	28	16	1203	449.1
29	Technical Math (calculus-based)	0	0	0	0	3	2	330	231.3
30	Other Mathematics Courses (not transferable)	0	0	46	38	87	14	1488	641
31	Other Mathematics Courses (transferable)	1	1	5	5	54	31	784	325.8

Table TYE.11

Course Number	Type of course	Accelerated Sections	Slower-Paced Sections	Learning Communities	Summer Boot Camp	Not applicable (course not offered)
1	Arithmetic & Basic Mathematics	22	23	17	13	34
	SE	*5*	*6*	*3*	*4*	*5*
2	Pre-algebra	35	22	15	8	30
	SE	*5*	*5*	*3*	*2*	*6*
3	Elementary Algebra (High School level)	49	29	16	15	15
	SE	*5*	*6*	*3*	*4*	*5*
4	Intermediate Algebra (High School level)	38	22	10	10	15
	SE	*5*	*5*	*3*	*3*	*5*

Table TYE.11.1

			Most sophisticated technology that is required or allowed:					
Course Nbr.	**Type of course**	No Calculator Allowed	Four-Function Calculator	Scientific Calculator	Graph. Calc.	Computer-Based Tools	No Dept. Policy	Not applicable (course not offered)
1	Arithmetic & Basic Mathematics	43	7	12	1	3	8	26
	SE	*6*	*2*	*4*	*1*	*1*	*4*	*5*
2	Pre-Algebra	26	10	22	5	6	7	24
	SE	*5*	*3*	*4*	*2*	*2*	*2*	*5*
3	Elementary Algebra (High School level)	13	8	32	18	6	19	4
	SE	*4*	*3*	*5*	*4*	*2*	*5*	*3*
4	Intermediate Algebra (High School level)	4	3	23	42	7	17	4
	SE	*2*	*1*	*5*	*5*	*2*	*5*	*3*

Table TYE.11.2	% of prog.	*SE*
A. Percentage of all departments that offer College Algebra	84	*5*
B. Purpose of College Algebra programs is to		
a. Prepare students for Trigonometry, Engineering, or other Calculus	84	*4*
b. Prepare students for Business Calculus but not Engineering Calculus	55	*6*
c. Strengthen general quantitative literacy	73	*5*
d. Provide an option to students taking no further math	68	*6*
C. Course content primarily taught through modeling and problem solving	26	*5*
D. Department policy either requires or allows:		
a. Scientific calculator	59	*6*
b. Graphing calculator	65	*6*
c. Calculators with Algebra System	7	*2*
E. Use of technology		
a. Instructors and/or students use spreadsheets	20	*5*
b. Students use commercial programs	59	*6*
c. Students use computer algebra systems	24	*5*
d. Students are required to submit homework via an online platform	49	*5*
e. Offer web-based resources	47	*5*

Table TYE.12		2010					
Course Nbr.	Type of course	Total Enroll. (1000s)	*SE*	Dist. Enroll. (1000s)	*SE*	% Dist. Enroll.	*SE*
1	Arithmetic & Basic Mathematics	146	*22*	11	*5*	7	*4*
2	Pre-algebra	226	*30*	14	*6*	6	*3*
3	Elementary Algebra (High School level)	428	*38*	37	*11*	9	*2*
4	Intermediate Algebra (High School level)	344	*25*	25	*5*	7	*1*
5	Geometry (High School level)	6	*1*	0	*0*	0	*0*
6	College Algebra (above Intermed. Algebra)	230	*28*	32	*8*	14	*3*
7	Trigonometry	45	*6*	4	*2*	10	*3*
8	College Algebra & Trigonometry (combined)	11	*3*	1	*1*	12	*6*
9	Introduction to Mathematical Modeling	18	*9*	1	*0*	4	*4*
10	Precalculus/ Elementary Functions/ Analytic Geometry	64	*7*	3	*1*	5	*2*
11	Mainstream Calculus I	65	*5*	2	*1*	3	*1*
12	Mainstream Calculus II	29	*2*	0	*0*	1	*1*
13	Mainstream Calculus III	15	*1*	0	*0*	0	*0*
14	Non-mainstream Calculus I	20	*3*	2	*1*	8	*2*
15	Non-mainstream Calculus II	2	*1*	0	*0*	0	*0*
16	Differential Equations	6	*1*	0	*0*	2	*2*
17	Linear Algebra	5	*1*	0	*0*	4	*4*
18	Discrete Mathematics	2	*1*	0	*0*	12	*8*

Table TYE.12 (continued)							
19	Elementary Statistics (with or w/o Probability)	134	*12*	23	*4*	17	*2*
20	Probability (with or w/o Statistics)	3	*1*	0	*0*	7	*8*
21	Finite Mathematics	18	*4*	2	*1*	11	*3*
22	Math for Liberal Arts	91	*12*	15	*4*	17	*3*
23	Mathematics for Elementary School Teachers I	21	*3*	2	*1*	11	*4*
24	Mathematics for Elementary School Teachers II	8	*1*	2	*1*	20	*7*
25	Other Mathematics Courses for Teacher Preparation	1	*0*	0	*0*	0	*0*
26	Business Math (not transferable)	16	*5*	3	*1*	19	*4*
27	Business Math (transferable)	4	*2*	0	*0*	7	*6*
28	Technical Math (non-calculus)	17	*8*	1	*1*	7	*6*
29	Technical Math (calculus)	1	*1*	0	*0*	37	*29*
30	Other Math Courses (not transferable)	33	*17*	2	*1*	7	*2*
31	Other Math Courses (transferable)	14	*5*	3	*1*	19	*9*

Table TYE.12.1	% of Progs.	*SE*
A. Goals of distance learning generally the same as face-to-face courses		
a. Yes	88	*4*
b. No	0	-
c. Do not have distance learning	12	*4*
B. Instructional materials created by:		
a. Faculty	10	*2*
b. Commercially produced materials	12	*4*
c. Combination of both	78	*5*
C. Format of majority of distance learning		
a. Complete online	73	*6*
b. Hybrid	22	*5*
c. Other	5	*3*
D. Requirements of distance learning faculty to meet with students		
a. Never	8	*3*
b. For scheduled meetings	6	*3*
c. Specified office hours per week	21	*5*
d. Not applicable	65	*5*
E. How distance learning students take majority of tests		
a. Complete online and unproctored	11	*4*
b. At proctored testing site	42	*5*
c. Combination of both	47	*4*
F. Exams when there are multiple instructors		
a. No common departmental exams	39	*6*
b. Common departmental exams for some courses	20	*4*
c. Common departmental exams for all courses	23	*4*
G. Are some courses in both non-distance and distance learning formats		
a. Yes	97	*2*
b. No	3	*2*
H. Distance learning practices		
a. Same exams as in face-to-face	47	*5*
b. Same outlines as in face-to-face	96	*2*
c. Same course projects	49	*5*
I. Distance learning instructors evaluated in same way		
a. Yes	78	*4*
b. No	22	*4*

Table TYE.13		
Opportunity/Service	2010	*SE*
A. Diagnostic or placement testing	90	*4*
a. Colleges that usually require placement tests of first-time enrollees	100	*0*
b. Colleges that use placement tests as part of mandatory placement	98	*2*
c. Colleges that periodically assess the effectiveness of their placement tests	75	*6*
B. Mathematics lab or tutorial center	*	
C. Advising by a member of the mathematics faculty	42	*5*
D. Opportunities to compete in mathematics contests	41	*4*
E. Honors sections	20	*3*
F. Mathematics club	31	*5*
G. Special mathematics programs to encourage minorities	11	*3*
H. Lectures/colloquia for students, not part of math club	16	*4*
I. Special mathematics programs to encourage women	6	*2*
J. K-12 outreach opportunities	32	*5*
K. Undergraduate research opportunities	14	*4*
L. Independent mathematics studies	36	*5*
M. Other	13	*6*

Table TYE.14		2010	
Course Number	Type of course	Enroll. (1000s)	*SE*
1-2	Arithmetic & Basic Math, Pre-algebra	48	*15*
3	Elementary Algebra (High School level)	38	*14*
4	Intermediate Algebra (High School level)	29	*14*
19-20	Elementary Statistics, Probability	12	*4*
26-27	Business Mathematics	19	*3*
28-29	Technical Mathematics	7	*3*
	Total	152	*40*

Table TYE.15		Mathematics Enrollment (in 1000s) in Other Programs			
Course Number	Type of course	Developmental Education Dept/Division	Occupational Programs	Business	Other Depts/ Divisions
1-2	Arithmetic & Basic Math, Pre-algebra	47	1	0	0
	SE	*15*	*0*	*0*	*0*
3	Elementary Algebra (High School level)	36	0	1	0
	SE	*14*	*0*	*1*	*0*
4	Intermediate Algebra (High School level)	29	0	0	0
	SE	*14*	*0*	*0*	*0*
19-20	Elementary Statistics, Probability	0	0	9	3
	SE	*0*	*0*	*3*	*1*
26-27	Business Mathematics	0	1	18	0
	SE	*0*	*1*	*4*	*0*
28-29	Technical Mathematics	0	4	1	2
	SE	*0*	*2*	*1*	*1*
	Total	112	5	29	6
	SE	*40*	*2*	*5*	*2*

Table TYE.16			
Mathematics Outside of the Mathematics Department		2010	*SE*
Percentage of Two-year Colleges with some precollege mathematics courses outside of mathematics department control		29	*7*
Course number	Type of Course		
1-2	Arithmetic & Basic Math, Pre-algebra	24	*7*
3	Elementary Algebra (High School level)	13	*6*
4	Intermediate Algebra (High School level)	7	*3*

Table TYF.1		
Two-Year Colleges	2010	*SE*
Full-time permanent faculty	9790	*387*
Full-time temporary faculty	1083	*417*
Part-time faculty paid by TYC	23453	*1568*
Part-time, paid by third party	2323	*420*

	Teaching assignment in weekly contact hours					
Table TYF.2	<10	10 to 12	13 to 15	16 to 18	19 to 21	>21
Percentage of two-year colleges	3	7	76	8	3	3
SE	*3*	*4*	*6*	*2*	*2*	*2*

Full-time Permanent Faculty	2010	*SE*
A. Average weekly contact hours:	15	*1*
B. Percentage who teach extra hours for extra pay at their own two-year college:	65%	*3*
C. Percentage teaching 1-3 extra hours for extra pay:	47%	*4*
D. Percentage teaching 4-6 extra hours for extra pay:	39%	*3*
E. Percentage teaching 7 or more extra hours for extra pay:	14%	*2*
Part-time Faculty		
F. Percentage who teach 6 or more hours weekly:	54%	*5*
G. Percentage of two-year colleges requiring part-time faculty to hold office hours:	28%	*5*

Table TYF.3	Estimate	*SE*
Number no longer part of 2010-2011 faculty	459	*81*
Total full-time permanent faculty, fall 2010	9790	*387*

Table TYF.4	% of full-time permanent faculty	
Highest degree	2010	*SE*
Doctorate	14	*2*
Masters	83	*2*
Bachelors	3	*1*
Number of full-time permanent faculty	9790	*387*

Table TYF.5	Percentage having as highest degree			
Field of degree	Doctorate	Masters	Bachelors	Total Percent in Field
Mathematics	8	60	1	68
SE	*1*	*3*	*0*	*2*
Statistics	0	2	0	3
SE	*0*	*1*	*0*	*1*
Mathematics Education	3	17	1	21
SE	*1*	*2*	*1*	*2*
Other fields	2	5	0	7
SE	*1*	*1*	*0*	*1*
Total Percentage by highest degree	14	83	3	
SE	*2*	*2*	*1*	

Table TYF.6	% of part-time faculty	
Highest degree	2010	*SE*
Doctorate	5	*1*
Masters	73	*3*
Bachelors	22	*3*
Number of part-time faculty	25775	*1592*

Table TYF.7	Percentage having as highest degree			
Field of degree	Doctorate	Masters	Bachelors	Total Percent in Field
Mathematics	2	35	11	48
SE	*0*	*3*	*2*	*4*
Mathematics Education	1	20	5	26
SE	*0*	*2*	*2*	*3*
Statistics	0	2	0	2
SE	*0*	*0*	*0*	*0*
Other fields	1	17	6	24
SE	*0*	*2*	*2*	*3*
Total Percentage by highest degree	5	73	22	
SE	*1*	*3*	*3*	

Table TYF.8	2010	*SE*
Men	4866	*251*
	50%	*2%*
Women	4924	*278*
	50%	*2%*

Table TYF.9	% of Full-time permanent faculty	% of Part-time faculty
Men	50	51
SE	*2*	*2*
Women	50	49
SE	*2*	*2*
Total Number	9790	23453
SE	*387*	*1568*

Table TYF.10	2010	*SE*
Percentage of ethnic minorities among full-time permanent faculty	16%	*2%*
Number of full-time permanent ethnic minority faculty	1566	*155*
Number of full-time permanent faculty	9790	*387*

Table TYF.11	% of full-time permanent faculty	
Ethnic Group	2010	*SE*
American Indian/Eskimo/Aleut	0	*0*
Asian/Pacific Islander	6	*1*
Black (non-Hispanic)	6	*1*
Mexican American/Puerto Rican/ other Hispanic	4	*1*
White (non-Hispanic)	79	*2*
Status unknown	5	*2*

Table TYF.12			
Ethnic Group	Number of full-time permanent faculty	% of ethnic group among all full-time permanent faculty	% of women within ethnic group
American Indian, Alaskan Native	20	0	63
SE	*12*	*0*	*45*
Asian	605	6	48
SE	*100*	*1*	*7*
Native Hawaiian, Pacific Islander	42	0	49
SE	*16*	*0*	*25*
Black or African American (non-Hispanic)	544	6	37
SE	*75*	*1*	*6*
Mexican American,Puerto Rican or other Hispanic	356	4	34
SE	*53*	*1*	*7*
White (non-Hispanic)	7733	79	52
SE	*408*	*2*	*2*
Status not known or other	490	5	50
SE	*209*	*2*	*12*

Table TYF.13	Percentage among	
Ethnic Group	All full-time permanent faculty	Full-time permanent faculty under age 40
Ethnic Minorities	16	18
SE	*2*	*3*
White (non-Hispanic)	79	74
SE	*2*	*5*
Unknown	5	8
SE	*2*	*5*

Table TYF.14	2010
Percentage of ethnic minorities among part-time faculty	17
SE	*2*

Table TYF.15			
Ethnic Group	Number of part-time faculty	% of ethnic group among all part-time faculty	% of women within ethnic group
American Indian, Alaskan Native	44	0	6
SE	*26*	*0*	*9*
Asian	1341	6	49
SE	*206*	*1*	*5*
Native Hawaiian, Pacific Islander	59	0	34
SE	*34*	*0*	*49*
Black or African American (non-Hispanic)	1796	8	36
SE	*230*	*1*	*3*
Mexican American,Puerto Rican or other Hispanic	762	3	44
SE	*151*	*1*	*7*
White (non-Hispanic)	18105	77	51
SE	*1477*	*3*	*2*
Status not known or other	1346	6	46
SE	*666*	*3*	*7*

Table TYF.16	% of full-time permanent faculty		Number of full-time permanent faculty	
Age	2010	*SE*	2010	*SE*
<30	8	*2*	832	*158*
30-34	9	*1*	893	*117*
35-39	12	*1*	1189	*107*
40-44	14	*2*	1416	*142*
45-49	15	*1*	1475	*113*
50-54	11	*1*	1085	*115*
55-59	13	*1*	1268	*149*
>59	17	*2*	1631	*176*

Table TYF.17	% of full-time permanent faculty		% of women in age group
Age	Women	Men	
<35	10	8	57
SE	*1*	*1*	*4*
35-44	13	13	53
SE	*1*	*1*	*3*
45-54	13	14	48
SE	*1*	*1*	*3*
>54	14	16	47
SE	*1*	*2*	*4*

Table TYF.18		
Percentage of new faculty from:	2010	*SE*
A. Graduate School	23	*6*
B. Teaching in a four-year college or university	3	*2*
C. Teaching in another two-year college	18	*5*
D. Teaching in a secondary school	25	*9*
E. Part-time or full-time temporary employment at the same college	23	*5*
F. Nonacademic employment	1	*1*
G. Unemployed	0	*0*
F. Unknown	6	*3*
Total Number Hired	777	*103*

Table TYF.19	% of New Hires	
Highest Degree	2010-2011	*SE*
Doctorate	11	*3*
Masters	82	*4*
Bachelors	2	*1*
Unknown	4	*2*

Table TYF.20				
Ethnic Group	% of new hires for 2010-2011	*SE*	% of women in ethnic group	*SE*
American Indian	0	*0*	100	-
Asian/Pacific Islander	9	*3*	70	*25*
Black (non-Hispanic)	5	*2*	27	*29*
Hispanic	4	*2*	36	*14*
White (non-Hispanic)	78	*5*	49	*8*
Other	1	*1*	0	-
Unknown	3	*2*	0	*0*
Percentage of women among all new hires	47	*5*		

Table TYF.21	% of two-year colleges in fall 2010	*SE*
Colleges that require teaching evaluations for all full-time faculty	96	*3*
Colleges that require teaching evaluations for all part-time faculty	88	*5*

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	69	*6*	64	*6*
B. Observation of classes by division head (if different from chair) or other administrator	42	*7*	55	*5*
C. Evaluation forms completed by students	97	*2*	98	*1*
D. Evaluation of written course material such as lesson plans, syllabus, or exams	53	*6*	58	*6*
E. Self-evaluation such as teaching portfolios	19	*4*	52	*6*
F. Written Peer Evaluations	11	*3*	27	*5*
G. Other methods	2	*1*	8	*3*

Table TYF.23		
Faculty Development	Fall 2010	*SE*
Percentage of institutions requiring continuing education or professional development for full-time permanent faculty	67	*4*
How Faculty Meet Professional Development Requirements	% of permanent faculty in fall 2010	
A. Activities provided by employer	53	*5*
B. Activities provided by professional associations	34	*3*
C. Publishing books or research or expository papers	3	*1*
D. Continuing graduate education	4	*1*

Table TYF.24	% of program heads classifying problem as major	
Problem	2010	*SE*
A. Maintaining vitality of faculty	4	*2*
B. Dual-enrollment courses	11	*4*
C. Staffing statistics courses	2	*1*
D. Students don't understand demands of college work	64	*4*
E. Need to use part-time faculty for too many courses	35	*4*
F. Faculty salaries too low	21	*3*
G. Class sizes too large	3	*1*
H. Low student motivation	50	*7*
I. Too many students needing remediation	67	*6*
J. Lack of student progress from developmental to advanced courses	37	*7*
K. Low success rate in transfer-level courses	13	*3*
L. Too few students who intend to transfer actually do	11	*2*
M. Inadequate travel funds for faculty	23	*5*
N. Inadequate classroom facilities for use of technology	10	*4*
O. Inadequate computer facilities for part-time faculty use	6	*2*
P. Inadequate computer facilities for student services	5	*2*
Q. Commercial outsourcing of instruction	0	-
R. Heavy classroom duties prevent personal & teaching enrichment by faculty	11	*3*
S. Coordinating mathematics courses with high schools	14	*3*
T. Lack of curricular flexibility because of transfer rules	5	*2*
U. Use of distance education	6	*2*

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	75	*6*	21	*6*	4	*2*
B. Dual-enrollment courses	61	*5*	16	*5*	11	*4*
C. Staffing statistics courses	71	*5*	13	*3*	2	*1*
D. Students don't understand demands of college work	7	*2*	28	*4*	64	*4*
E. Need to use part-time faculty for too many courses	35	*5*	28	*5*	35	*4*
F. Faculty salaries too low	49	*5*	30	*5*	21	*3*
G. Class sizes too large	80	*3*	17	*3*	3	*1*
H. Low student motivation	9	*3*	41	*6*	50	*7*
I. Too many students needing remediation	10	*4*	23	*5*	67	*6*
J. Lack of student progress from developmental to advanced courses	32	*6*	31	*6*	37	*7*
K. Low success rate in transfer-level courses	64	*5*	23	*4*	13	*3*
L. Too few students who intend to transfer actually do	66	*4*	23	*3*	11	*2*
M. Inadequate travel funds for faculty	53	*6*	23	*5*	23	*5*
N. Inadequate classroom facilities for use of technology	77	*5*	13	*3*	10	*4*
O. Inadequate computer facilities for part-time faculty use	79	*4*	15	*3*	6	*2*
P. Inadequate computer facilities for student services	83	*3*	12	*3*	5	*2*
Q. Commercial outsourcing of instruction	66	*5*	1	*1*	0	-
R. Heavy classroom duties prevent personal & teaching enrichment by faculty	58	*5*	31	*5*	11	*3*
S. Coordinating mathematics courses with high schools	47	*6*	39	*7*	14	*3*
T. Lack of curricular flexibility because of transfer rules	84	*5*	12	*4*	5	*2*
U. Use of distance education	68	*7*	15	*4*	6	*2*

Table TYF.26	% of Mathematics Programs	
Administrative structure	2010	*SE*
Mathematics Department	46	*5*
Mathematics and science department or division	14	*4*
Other department or division structure	31	*6*
None of the above or unknown	9	*4*