APPENDIX E

COURSE BY COURSE ENROLLMENTS IN UNIVERSITIES AND FOUR-YEAR COLLEGES (In Thousands)

Sums may not total, because of rounding.
(L means some but less than 500)

Name of Course (or equivalent)	Universities	Public Colleges	Private Colleges	Total
A. MATHEMATICS				
Remedial				
1. Arithmetic	3	8	4	15
2. General Math. (basic skills, operations)	2	18	11	31
3. Elem. Algebra (High School)	15	52	8	75
4. Intermed. Alg.(High School)	36	77	17	130
Total Remedial	56	155	40	251
Pre-calculus				
5. College Algebra	53	73	25	150
6. Trigonometry	12	22	3	37
7. College Alg. & Trig. combined	31	35	12	78
8. Elem. Functions, Pre-calc. Math.	26	30	18	74
9. Math. for Liberal Arts	12	30	17	59
10. Finite Mathematics	35	30	23	88
11. Business Mathematics	12	22	3	37
12. Math. for Elem. School Teachers	12	31	10	54
13. Analytic Geometry	L	2	1	3
14. Other Pre-calculus	7	5	1	13
Total (Non-remedial) Pre-calc.	200	280	113	593
Calculus Level				
15. Calc. (Math., Phys. Sci. & Eng.)	162	163	77	402
16. Calc. (Bio., Soc. & Mgmt. Scis.)	73	49	8	129
17. Differential Equations	22	18	6	45
18. Discrete Mathematics	5	8	2	14
19. Linear Alg. and/or Matrix Theory	19	20	8	47
Total Calculus	281	258	101	637
Advanced Level				
20. Modern Algebra	5	6	2	13
21. Theory of Numbers	1	1	1	3
22. Combinatorics	2	3	L	4
23. Graph Theory	1	L	L	1
24. Coding Theory	-	L	-	L
25. Foundations of Mathematics	1	2	1	3
26. Set Theory	L	1	-	1
27. Discrete Structures	1	3	3	7

Name of Course (or equivalent)	Universities	Public Colleges	Private Colleges	Total
A. MATHEMATICS				
Advanced Level (Continued)				
28. History of Mathematics	L	1	-	2
29. Geometry	2	4	1	7
30. Math. for Secondary School Teachers (Methods, etc.)	1	3	1	5
31. Mathematical Logic	1	L	1	2
32. Advanced Calculus	5	6	3	14
33. Advanced Math. for Eng. & Physics	4	5	1	10
34. Vector Analysis. Linear Algebra	4	8	2	14
35. Advanced Diff. Equations	1	2	L	4
36. Partial Diff. Equations	1	3	-	5
37. Numerical Analysis	5	7	2	13
38. Applied Mathematics, Math. Modelling	1	1	1	4
39. Operations Research	3	2	1	6
40. Complex Variables	2	2	1	5
41. Real Analysis	2	2	2	5
42. Topology	1	L	L	2
43. Senior Seminar/Independ. Stud. Mathematics	L	1	1	2
44. Other Mathematics	3	3	1	7
Total Advanced Level	47	66	25	138
B. STATISTICS				
45. Elem. Stat. (no Calc. prereq.)	40	41	34	115
46. Probability (& Stat.) (No Calc. prerequisite)	12	13	5	29
47. Mathematical Statistics (Calc.)	10	9	6	24
48. Probability (Calculus)	7	5	3	15
49. Stochastic Processes	L	-	-	L
50. Applied Stat. Analysis	7	3	1	11
51. Design & Analysis of Experiments	1	L	-	1
52. Regression (and Correlation)	1	L	-	1
53. Senior Seminar/Indep. Stud. Stat.	L	-	-	L
54. Other Statistics	11	1	L	12
Total - All Statistics	89	72	49	208
C. COMPUTER SCIENCE				
Lower Level				
55. Computers & Society	10	36	23	69
56. CS1 '78 or CS1 '84 (Computer Programming I)	36	50	43	129
57. CS2 '78 (Computer Prog. II)	6	13	8	28

Name of Course (or equivalent)	Universities	Public Colleges	Private Colleges	Total
C. COMPUTER SCIENCE				
Lower Level (Continued)				
58. CS2, '84	4	7	4	15
59. Database Mgmt. Systems	1	4	2	7
60. Discrete Mathematics	3	8	2	12
61. Other Lower Level Service	34	37	19	90
Total Lower Level	94	155	101	350
Middle Level				
62. Intro. to Comp. Systems (CS3)	4	11	3	18
63. Assembly Lang. Programming	6	13	5	24
64. Intro. to Comp. Organization	5	6	3	14
65. Intro. to File Processing (CS5)	3	4	2	10
Total Middle Level	18	34	13	66
Upper Level				
66. Operating Sys. & Computer Arch.	2	1	1	4
67. Operating Systems	4	5	2	11
68. Computer Architecture	2	2	2	6
69. Data Structures (CS7)	7	10	7	24
70. Survey of Prog. Languages	3	5	1	9
71. Computers & Society (CS9)	L	L	L	1
72. Operating Systems & Comp. Architecture II (CS10)	1	1	L	2
73. Principles of Database Design	3	2	2	7
74. Artificial Intelligence (CS12)	3	1	1	5
75. Discrete Structures	2	2	1	4
76. Algorithms (CS13)	2	3	-	5
77. Software Design & Develop.(CS14)	3	3	2	8
78. Principles of Prog. Languages	2	3	1	6
79. Automata, Computability, & Formal Languages (CS16)	2	2	L	4
80. Automata Theory	1	1	-	2
81. Numerical Math.: Analysis (CS17)	1	2	1	4
82. Numerical Methods	1	1	L	2
83. Numerical Math: Linear Alg. (CS18)	1	1	1	2
84. Compiler Design	2	2	-	4
85. Networks	1	1	1	3
86. Modelling & Simulation	L	1	L	1
87. Computer Graphics	2	2	1	6
88. Semantics & Verification	L	L	-	L
89. Complexity	L	L	-	L
90. Computational Linguistics	-	-	-	-
91. Senior Seminar/Independ. Stud. CS	2	1	1	4
92. Other Computer Science	7	9	3	18
Total Upper Level	54	61	28	142