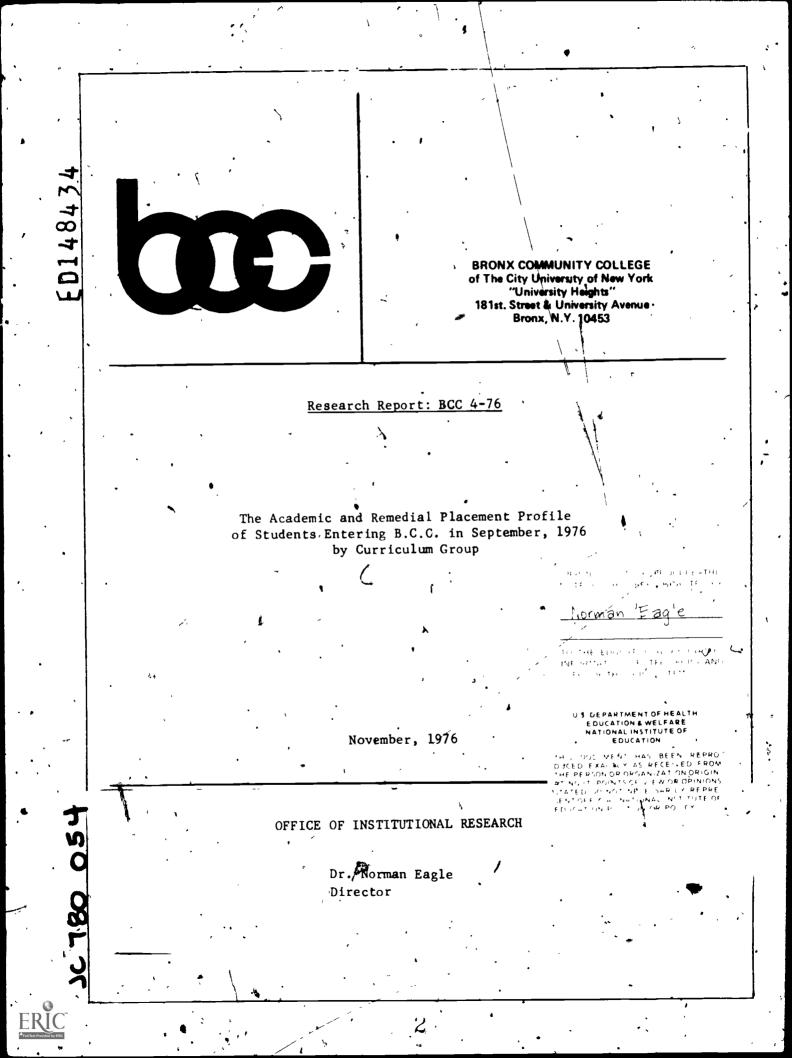
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ABSTRACT

Profiles of freshmen students entering Bronx Community College (BCC) in September, 1976 and September, 1977 are presented in terms of their academic and remedial placement. For both years, nearly 70% of those who took placement tests in the reading/English area and subsequently enrolled were recommended for at least one remedial sourse; 75% of 1976 freshmen and over half of 1977 freshmen who took mathematics placement tests were placed into remedial math. In terms of actual enrollment, 69% of 1976 matriculated students and 62% of 1977 matriculated students enrolled in one or more remedial reading/English courses, and 60% of 1976 matriculated students and 41% of 1977 matriculated students enrolled in remedial math. Both years showed an increase in the number of freshmen who took prescribed remedial courses, although a significant number of students continued to by-pass them. In addition, in both years BCC enrolled a markedly/higher proportion of students/with high school averages below 70% and with less scholastic preparation than those in other City University of New York colleges. The profiles for each year are discussed in detail and supplemented by tables. (LH)

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- SUMMARY
- I. Nearly three out of four students (.70) who took placement tests in the Reading-English area were recommended for at least one repredial course in this area, a slight decrease from the proportion recorded last year (.78), which was the highest since the beginning of open admissions.
- Two out of three students who were examined for placement into mathematics, were placed into remedial mathematics courses, representing no change from last year.
- 3. In terms of actual <u>enrollment</u> in remedial courses, 69% of the matriculated students are actually enrolled if one of the remedial <u>Reading</u>. <u>English</u> courses. Last year 54% enrolled.
- 4. In <u>mathematics</u> 60% of the entering class enrolled in remedial courses, as compared with 27% last year. This has reversed a trend in remedial mathematics course enrollment, which had shown a decline in enrollment over the previous three years.
- 5. High school averages of students <u>recommended</u> to B.C.C. by the University Application Processing Center showed a moderate improvement over previous years, reflecting the new C.U.N.Y. entry standards. However, in terms of students <u>actually enrolled</u>, only a slight improvement is noted in high school <u>English average</u>, and <u>no improvement</u> in the <u>mathematics</u> average.
- 6. Compared with previous years, relatively fewer students are found to have enrolled in regular college courses without taking remedial courses to which they had been assigned. Never-the-less a significant number of students continue to by-pass remedial courses.
- 7. There is no significant relationship among curriculum groups between the proportion of students earning high school averages below 70% and the proportion enrolled in remedial courses. This is true for both the Reading-English and Mathematics areas.
- 8. As of the Fall of 1975, B.C.C. enrolled a <u>markedly high proportion</u> of students with high school averages belww 70%, than any other college in C.U.N.Y., and while the academic preparedness of this year's entering class is <u>slightly</u> better than last year, it is still probable that our current freshman class is less prepared scholastically than freshman classes at other C.U.N.Y. units.

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The Academic and Remedial Placement Profile of Students Entering B.C.C. in September, 1976 by Curriculum Group.

This report describes the B.C.C. class entering in September, 1976 in kerms of high school averages (general, English, mathematics, foreign language) and placements into pré-college level English, reading, and mathematics courses. It also examines the actual programs of enrolled students placed <u>into</u>, though not registered in, these remedial courses.

REMEDIAL PLACEMENTS AND ENROLLMENTS

Table 1 shows the distribution of remedial <u>placements</u> into English, reading, and mathematics, for 16 curriculum areas. However, these students, while having been assigned matriculation codes, may not have registered at B.C.C. Therefore, this table is of interest mainly in the comparison of the current group of students assigned to B.C.C., with groups <u>assigned</u> in previous years. Since September 1971, the proportions of students recommended for placement into remedial courses, but who may or may not have actually entrolled, are shown for the sixteen curriculum groups as follows:

Numbered tables begin on page 13.

Trend in the proportion of students recommended for
 remedial placements (not necessarily registered), 1971-1976 (Fall Semesters).

-		-				1	•		,			
J.		1		• Rijald	_1	(•		Mark -	•		9
	1971	/ -	1973	<u>-Engli</u> 1974	<u>sn</u> 1975	1976	1971	19 72 ´	<u>Marne</u> 1973.	<u>matics</u> 1974	1975	1976
Business Accounting	.66	.81	.72	.72	.81	.64	.57	.51	.61	. 32	74	.57
Business Retail	. 59	.60	:61	.63	.73	· . 51	.47	.50	.79	.17		.67
Business Secretarial	• 54	.74	.67	.77	.79	.83	.51	.51	.57	.38	.71	. 55
Data Processing	.67	.79	.69	、 . 76	.83	.71	.45	.40	, .52	.31	.71	•49
Chemical Technology	.66	.84	-	.75	.84 •	-	. 33	.52	-	· .75	.79	-
Medical Lab Technology	.76	.68 ·	.41	.73.	.77	.78	.73	.62	.74.	.76	.72-	- 69
Plastics Technology	.71	.60	-	. 57	-	-	. 55	.73	-	.21	-) - '
Mechanical Technology	.75	. 76	.54	.63	.83	. 88	.70	.56	.79	.45	·,74	.78
Electrical Technology	.67	.74	, 58	,.72	.75	.75	7.70	.62	.68	. 39	.76-	•.55
Nursing	.68	. 57	.42	.76	.78	.78	-	.01		.66	.05	.81
Lib eral Arts	.53	.69	.66	· .78	_ 76 ·	.72	65	.64	. 58	.27	.74	.60.
Engimeering Science	.71	.70	.43	.76	.78	.75	. 56-	.48,	. 58	.27	.64	. 58
Business Administration		.73	.70	.68	•.76	. 66	.66	.66	.71	. 36	.78	. 58
Pre-Pharmacy /	. 56	,66	, 52	.74	.78	.86	.69	.43	.68	.23	80	. ∙65
Music & Perf. Arts	. 41	.56	. 50	·:67	.64	.89	. 29	. 39	.25	.23	.81	.53°,
Education Associate	. - `	-	-	-	· . 85	.80	-	-	• •		.84	.74.
Other or Undecided	1		: 55	.7,6	.76	.46	<u>† -</u>		.44	.17	.68	.80 -
All Curriculums	.60	.72	.63	.74	.78	.70	1.56	. 54	.57	.37.	.68	.64,

The above table shows that, as was true last year, almost three.out of four students applying to B.C.C. for Fall, 1976 admissions, who took placement tests in the <u>Reading</u>-<u>English area</u>, were recommended for at least one remedial course in this area. However, Table 1 shows that 33% were recommended for placement into both a remedial reading <u>and</u> a remedial English (writing) course, a decline from last year of 9 percentage points, and from 1974, of 10 percentage points. Taken together with the decrease in the proportions of students requiring remediation in <u>either</u> English or reading (8% from last year, 4% from 1974), this appears to be evidence of a very slight improvement in the verbal ability

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of students (as indicated by school averages) <u>assigned</u> to B.C.C., compared to the Fall, 1974 and Fall, 1975 groups assigned to the College. This very slight improvement over last year is also seen in the mathematics area. Never-the-less proportions in <u>both</u> areas are higher, in general, than those during the early open admission years, 1971-73.

Actual eprollments in remedial courses are shown in Table 2. It can be seen that 69% of the matriculated students are actually enrolled in one of the 'remedial English-Reading courses, almost exactly the proportion <u>placed</u>. In mathematics 60% are seen to be <u>actually enrolled</u> in one of the remedial courses (compared to the 64% placed). The total remedial English-Reading <u>enrollment</u> proportion for the Fall 1976 entering class is markedly higher (15%) than the proportions for the classes entering in the Fall of 1974 and 1975. In mathematics, the proportion of students enrolled in remedial courses (60%) shows.a 100% rise over the 28%-30% levels which prevailed during the two previous years.

If the mean proportion, plus and minus .05, is taken as the "average" range of proportions across all curriculum groups, the groupings on page 4 show, which curricula fall within this "average" range; and which are higher or lower (excluding chemical technology and phastics technology because of inadequate, size).

Comparing these groupings with those of last year, it is again seen that this year's mean is fifteen percentage points higher, indicating a significant increase in the proportion of students <u>enrolled</u> in remedial English or reading

courses.

Over the five entering classes since the Fall of 1972, the proportions of students in the various curricula enrolled in one or more remedial Reading-English

Distribution of curriculum areas according to proportions of students enrolled in remedial <u>Reading-English</u>.

	مرة (s)	
2.64	Mean p <u>+</u> .05 .6474	×.74 · · ·
Business Accounting (.61)	Nursing (.74)*	Business Retail (.79)
, , ,	Music & P.A. (.73)	Ed. Associate (.77)
· · · · · ·	Med. Lab. Tech. (.72)	Business Secretarial (.77)
· · ·	Mechanical Tech. (.72)	
	Engineering Sci. (.70)	
,	Pre-Pharmacy (.69)	
	Business Adm. (.66)	· · · · ·
۰. چ	Liberal Arts (.66)	
• 	Electrical Tech. (.65)	•
· · ·	Data Processing (.64)	
•		· · · · · · · · · · · · · · · · · · ·

courses are shown in the table on page 5 (excluding curriculums of inadequate size). Intercorrelating the five columns in the table yields a Coefficient of Concordance (W) of .25 indicating only a weak consistency in the proportions of remedial Reading-English enroliments among curricula, from 1972 to 1976.

In mathematics, Table 2 shows that 60% of all matriculated students are <u>enrolled</u> in one of the two remedial mathematics courses. This compares with 29% of matriculated students enrolled last year, and with 32% in the Fall of 1973. A .very marked increase (about 100%) is seen over the two previous entering Fall classes.

No student requiring remediation in any area is permitted to enroll in any of the <u>Nursing</u> courses per se. These students are actually classified as pre-Nursing.

 Proportions of stude 	ents enrolled	in remed	ial Reading	g-English	since 1972.	5
Curriculum	<u>1972</u> .	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	
Business Accounting	ِ ک	. 50	.43	.64	.61	
Business Retail	. 32	.50	.51	.51	.79.	
Business Secretarial	. 57	, . 54	.46	.62		
Data Processing	. 63	.64	. 55	.66	.64	
Medical Lab. Technology	. 50 •	. 36	.57	· , 57	.72	
Mechanical Technology	. 64	- 44	.47	.49	.72	,
Electrical Technology	. 52	. 38 .	. 48	.56	.65	
Nursing .	.45	.36	.70	.60	.74	
Liberal Arts	. 55	. 50	.43	.47	.66	
Engineering Science	. 50	. 33	. 39	.61	.70 .	
Business Administration	.49	. 56	.45	.46	.66	
Pre-Pharmacy	.40 ·	.44	.45	. 57	.69	
Music & Perf. Arts	44	. 33	. 39	· - · ·	.73	-
Education Associate	<i>.</i>	-	-	. 50	.77	

If the curriculum groups are sorted into three groups (average, below , average, above average) as was done for the Reading-English enrollments above, the groupings on Page 6 emerge for enrollments in <u>remedial mathematics</u> courses.

During the period 1972-1975 it was observed that <u>all</u> of the curriculums in the "above average" group (curriculums having higher than "average" proportions of remedial enrollments) were <u>technical</u> in nature, and it was thought that this reflected more stringent requirements in these areas. This year, however, it is seen that every curriculum group (with two exceptions) has enrolled a higher proportion of students in a remedial mathematics course than was enrolled last year by the curriculum showing the <u>maximum</u> proportion of enrollments (Engineering Science - .54).

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Distribution of curriculum areas according to proportions of students enrolled in <u>remedial Mathematics</u>

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Mean ± .05 .65 .55 - .65 55 🖌 . 1 Business Retail (.67) Business Secretarial (.50) Music & P.A. (.55) Electrical Tech/~(.71) Data Processing (.57) Business Accounting (.53) Mechanical Tech (.58). Engineering Sci (.59) Education Assoc (.59) Business Ad (,62) Nursing (.62) Liberal Arts (.63) Med Lab Tech .(1.64) -

Proportions of stude	nts enrol	led in rem	wedial Mat	hematics si	Ince 1972.
Curriculum	<u>1972</u>	<u>1973</u>	. <u>1974</u>	<u>1975</u>	<u>1976</u>
Buriness Accounting	. 52	.37.	. 30	.24	. 53
Business Retail	.23	.46	. 24.	25	.67
Business Secretarial	.35	. 17	. 24	.11	.50
Data Processing	.33	.40	. 34	.25	. 57
Chemical Technology	_		* * *	.32	-
Medical Lab Technology	· 57 ·	.62	.60 ·	. 52	.64
Mechanical Technology	• .5 6 ⁻	72	48	.49	.58
Electrical Technology	.60	.69	• .53	. 50	.71 .
Nursing	.03	.25	47	.16	.62 -
Liberal Arts	.44	.39 -	/ :25	.28	.63
Engineering Science	.52	.55	. 54	. 54	. 59
Business Adiministration	£ 48	41	.33 ·	.21	.62
Pre-Pharmacy	.43	· . 58	.53	.53	.74
'Education Associate	.°	í 🖡 💶 🛀	· _	. 30	. 59

'Education Associate

In the above table it may be seen that some of the Curriculum groups have enrolled two, three and even four times as many (proportionately) students in 'remedial mathematics courses as compared with last year.

Intercorrelating the five columns above yields a Coefficient of Concordance (W) of .64, indicating a modestely strong degree of consistency in the proportions of remedial mathematics enrollments among curricula, from 1972 to

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1976.

PLACEMENT-ENROLIMENT DISCREPANCIES

While there are at least 1,700 entering matriculated students who are enrolled in some kind of remedial course, there is still a large number of entering matriculated students who were placed into remedial courses, but who took college level courses without taking the remedial courses assigned. The extent of this phenomenon is shown in Table 3. This table shows, for example, that of 535 students who were placed into either a remedial English or remedial reading course or both; 26 enrolled in History 11 or 12, 24 in Psychology or Sociology (11), and 80 enrolled in English 13, without taking the remedial course assigned. (These are not mutually exclusive students, that is, a student with the kind of remedigtion need specified could be enrolled in more than one callege-level course.) It 4s seen that 27 students who should have been excluded from English 13 for failing to meet entry level writing requirements were, in fact, enrolled in the college-level English course, about the same number as last year. In mathematics, only 10 students requiring 🙀 remedial mathematics course actually enrolled in a college-level mathematics course. Last year 27 such students were identified. In general, the number, of students not taking remedial courses required, but taking related college level courses has markedly declined in comparison with last year. The large number of students requiring remediation who were nonetheless. enrolled in college-level courses over recent years resulted in a study designed to follow up the success or failure of these students in their college-level courses. This study, not designed to evaluate the effectiveness of remediat programs, found that even without remediation significant proportions of students earn grades of C or higher in some college level courses, while other courses appear to be more difficult.

HIGH SCHOOL AVERAGES

The proportions of students at five levels of three-year high school averages, for general average, English, mathematics and foreign languages, are

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shown in Tables 4-7. Only English and mathematics will be subjected to further analysis in this report.

When the curriculum groups are distributed among the three classification categories as used above for enrollments in remedial Reading-English and an remedial mathematics courses, the following groupings from Table 5 occur for the proportions of three year English averages below 70% (excluding curriculum groups of inadequate size);

Distribution of curriculum areas according to proportions of students earning high school averages less than 70% in English.

(Registered Freshmen)

<u> </u>		
د .26	Mean p ± .05 .26 = .36	> . 3,6
Nursing (.11)	Data Processing, (.29)	Mechanical Tech (.44)
Education.Assoc. (.21)	Med. Lab Tech (.29)	Business Rétail (.46)
Electrical Tech (.22)	Engineering Sci (.29)	
Business Secretarial (.22)	Business Accounting (.31).	
Business Admin (.23)	Liberal Arts & Sci (.34)	
	Music & Perf Arts (.34)	
• • • • • • • • • • • • • • • • • • •	Pre-Pharmacy (.35)	

It may be seen that the over all proportion of enrolled new students with high school averages in English below 70% is somewhat lower (.31) than the proportions for last year's entering class (.38), and for the Fall, 1974 entering class (.36), reflecting the more rigorous entry requirements in force this gear. For the fourth consecutive year, the Business Secretarial and Nursing curriculum groups continue to show lower than average proportions, while the Mechanical Technology and Business Retail groups continue to show higher than average proportions.

As has been true in previous years, there appears to be no relationship among curriculum groups, between the proportions of registered students earning high school averages below 70% in English, and the proportions of students enrolled in remedial English or Read to Read to See. The actual correlation is -0.01. With regard to <u>high school machematics</u>, the following groupings of curricula, for proportions of averages below 70%, are taken from Table 6 (excluding curriculum groups of inadequate size):

Distribution of curriculum areas according to proportions of students earning high school averages less than 70% in <u>mathematics</u>. (Registered Freshmen)

48	Mean p ±, .05 .4858	> . 58
Engineering Science (.32)	Electrical Tech (.48)	Business Retail (.62)
Nursing (.36)	Data Processing (.51)	Mechanical Tech (.70)
Business Secretarial (.44)	Education Assoc (.57)	Music & Perf. Atts (.77)
Med. Lab Tech (.44)	Pre-Pharmacy (.58)	
Business Admin. (.44)	Liberal Arts & Sci (.58)	·
Business Accounting (.46)	• *	
	•	

Over all curriculum areas it can be seen that whereas 53% of all enrolled entering freshman students received high school mathematics grades below 70% (Table 6), 64% of all registered matriculated students were <u>placed</u> into remedial mathematics courses (Table 1), while 60% are seen to be actually <u>enrolled</u> in such classes (Table 2). By contrast, last year's entering class showed that the proportion of students <u>enrolled</u> in remedial classes was much lower than the proportion <u>placed</u> into such classes, or the proportion earning mathematics high school averages below 70%.

The correlation, among curriculum groups, between the proportions of students earning high school averages less than 70%, and the proportions of students enrolled in remedial mathematics courses, 1s -0.01 (coincidentally identical to the coefficient reported for English). There is, therefore, no relationship between the proportion of students within curriculum groups earning high school mathematics averages below 70%, and the proportion of students enrolling in remedial mathematics courses.

Table 8 shows the proportions of students recommended to B.C.C. by the University Applications Processing Center (U.A.P.C.) with three year high school averages below 70% in three academic areas, as well as the three year / general average. It may be seen that, compared with previous years, there has been a significant decrease in the proportions assigned to B.C.C. in all four categories. Doubtless this reflects the more stringent entrance requirements imposed this year.

Despite the improvement in the mathematics average of students recommended by the U.A.P.C. to B.C.C. (in terms of the proportion earning less than 70% in high school), the average of the students actually enrolled at B.C.C. has not changed since last year, in contrast to the situation in the English area, where the higher English average of the students recommended to B.C.C. by the U.A.P.C. has been translated into a higher English average for enrolled students. However, this slight improvement in the academic "quality" of students enrolled at B.C.C. this year should not obscure the fact that for the entire period of open admissions this college has consistently enrolled the highest proportion of academically underprepared students of any college in C.U.N.Y., with only few scattered exceptions throughout the period. It is

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still possible, therefore, that despite this <u>slight</u> improvement in the academic preparedness of our students this year, B.C.C. may continue to receive and enroll much higher proportions of underprepared students than all other C.U.N.Y. units.

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Table 1.

Distribution of <u>Remedial Placements</u> in English, Reading, and Mathematics by Curriculum (matriculated students, who may or may not have registered at B.C.C.)*

(Numbers are percents) ENG 01 ENG_01/02 ENG 02 RDL 01 RDL 02 •Total MTH 05 only only only Curriculums (Unique) only å MTH 06 OTHER RDL 01/02 · . Ν . . `15 2 26 8 13 48 g 133 14 Bus. Acctg. -Bus. Retail Ω 6 0 17 18 28 י17 56 . 11 5 * ٠ 3 ١ 8 22 9 Bus. Sec! 14 41 53 2 5 186 · 0 1 -9 46 16 68. 18 43 3 Data Proc. Chem. Tech ---.----_ <u>57</u> 6, 7 20 11 34 🗄 > Metl. Lab. Tech. 12 155 10 **,** ٢. '_ --Plastics Tech. ---1.10 3 ٠ 17 11 15 7 48 59 0 27 Mech. Tech. à 19 2 5. Electric Tech. 13 10 45 40 87 15 11 . 3 ·20 8Ô Nursing 4 7 44 ·3 1 163 <u>1</u> 6 7 11 16 32 51 Liberal Arts • 9 639 7 Engin'g.Sci. . 4 . 13 16 35 39 • 19 12 75 • 67⁻ <u>`</u>4 3 .9 1 7 Bus. Adm. 25 25 · 51 18 5 1 ***** 44 9 Pre-Pharmacy 12 18 15 · • 32 , 34 21 6 . ÷6 . 6 Q. 12 18 53 53 17 0 Music & P.A. 1 5 % 55 6 6 8 62 6 66 Edu. Assoc. 12 Undecided/ ź 5 5 •9 · .10 Other' 17 73 <u>9</u>` 335 A11 ١ Curriculums ... 211 123 94 6**82** 1168 330 174 190 2071 N 0 10 5 6 · 16 56 33 D * Students may enter into both Mathematics and English-Reading statistics. 16.

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Table 2.

Distribution of Remedial Enrollments in English, Reading, and Mathematics by curriculum, for entering matriculated students.*

(Numbers are percents)

• **	L					. /			
Curriculums	ENG 01 only	ENG 02 only	RDL 01 only	RDL 02 only	ENG 01/02 & RDL 01/02	MTH 05	MTH 06	. OTHER,	Tota↓ (Uniqué) N /
Bus. Acctg.	5	10	11	14	21	45	.8	2	200
Bus. Retail	. 19	7	4	19	30	63	4	7	. 27
Bus. Sec'l.	7	8	15	18	29	49	1	13	231.
Data Proc.	3 '	. 8	· 7	<u> </u>	30	54	3	16	. 96
Chem. Tèch.	<u>'_</u>	-	· -		-		- ,		
Med.Lab.Tech.	7	7	12	20	26	55	9	12 .	215
<u>Plastics Tech.</u>	-	•	,				·		
Mech. Tech.	11	1.4	8	μ	28	44	14	. 8'	36.
Electric Tech.	10	6	15	9 ·	25	56	, 15	<u>, 11 .</u>	110
Nursing	9:	• 7 .	12`	23	23	61 .	· 1 .'	12,	. 176
Liberal Arts	8	10 ·	10	15	23	.54	• 9	15	874
Engin'g Sci.	10	6	12	20	22	43 .	16	14	101
Bus. Adm.	7	5	- 8	-23	23 .	57	5	• / 18	120
<u>Pre-Pharmacy</u>	12	<u> </u>	17.	5	21	55 🛰	19	. 7,	42
Music & P.A.	18 .	0	14	14	27	55	0	14	22
Edu. Assoc.	10	8	13	8	38	53	6	10	.77 ~
Other All	14	· &	15	6	40.	55 _	5	8	215
Curriculums	• ` 213	219	28 ' 9	384	662	1354	186	352	2544 [#]
N	8	+ 9	<u>11</u> `	15	. 26	53		14	

*Students.may enter into both Mathematics and English-Reading statistics.

a tal. is larger than total in Table I because this table includes students who may not have taken placement examinations RIC

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Students placed into, but nut taking remedial courses: and some courses: they are taking the taking taking the taking taking the taking taking the taking			1 				· ·		• • •		• • •	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	•	Table ,3.	Students	placed into	, but not t	taking reme	dial cour	ses; and some cour	ses they are	e taki	• • •	•
BIO 11 1.8 0 2 0 4 3 6 2 1 3 3 3 BUS 11 0 1 0 0 0 0 1 0 1 1 0 0 1 1 0 1 1 2 3 3 3 3 3 3 3 3 3 3 3 0 1	°',				ENG. 01(19)	ENĢ 02.(27) ⁻	Any EN any RD	G L (329) TOTAL (535	MTH) 05. (275	MTH) 06 (54)	<u></u>	, ø • • •
18 0 1 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 2 3 1 1 0 1		ACC 11	3	8,	• 0	2	·1 ·	• • 14	· 3.	`3	• 5	• • •
CHS 11 12 28 4 16 79 139 98 21 119 CHM 11 0 0 1 0 0 1 1 2 3 CHM 11 0 0 1 0 0 1 1 2 3 CHM 11 0 0 1 2 3 2 5 FEC 11 0 0 0 -2 2 3 1 0 1 ENG 13 18 35 6 8 13 .80 57 16 73 FRN 11 0 .1 0 0.1 1 2 3 0 3 HIS 11 0 1 1 2 2 6 5 2 7 MTH 11 1 0 0 1 6 8 0 1 1 17 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1			0 •	2 • 1	0 (· 4 0 · `	3 . 0 ·	· · · · · · · · · · · · · · · · · · ·	- 2 0		· • 3, 0	
CFM 11 0 0 1 0 0 1 1 2 3 *(*) ECO 11 0 0 0 2 2 3 2 5 FLC 11 0 0 0 -1 2 3 1 .0 1 ENG 13 18 35 6 8 13 .80 57 16 73 FRN 11 0 .1 0 0 .1 2 3 0 3 HIS 11 0 .1 2 2 6 5 2 7 MTH 11 1 0 .1 2 3 8 0 1 1 12 1 6 2 3 8 20 1 1 1 13 1 0 .1 1 2 3 11 1 1 1 1 12 1 0 0 0 1 1 3 2 1 3 3 2 1	, , ,	BUS 11	• 0 • • •	, <u> 3 </u>	•0	. •2	,3 ×	* * 8	• . 15	e 2	· 17	1. 1
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12 1 6 2 3 8 20 13 3 2 7 18 1 MTH 11 1 0 0 1 6 8 0 1 1 16 1 0 0 1 1 3 2 1 3 17 0 0 0 1 1 3 2 1 3 MEC 11 0 1 0 2 4 7 0 1 1 PLS 11 0 0 .0 .0 0 0 0 0 0 0 POL 11 0 0 .1 1 0 .2 1 0 1 Soc 11 6 9 2 3 12 32 25 7 32 PSY 11 4 7 0 3 12 26 24 9 33 SPN 11 1 .5 2 4 17 29 13 4 17 <t< td=""><td>•</td><td>- -</td><td>0 1</td><td>.1</td><td>0 .</td><td>0_</td><td>1</td><td>2.</td><td>• 3</td><td>0</td><td>/ 3·</td><td>•</td></t<>	•	- -	0 1	.1	0 .	0_	1	2.	• 3	0	/ 3·	•
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PLS 11 0 1 1 0 2 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 1 0 1 </td <td>: •</td> <td>. 16 17</td> <td>1 1 0 2</td> <td>0 0 0 3</td> <td>.0 0 0 1</td> <td>1 1 0 12</td> <td>6 1 5 4 3</td> <td>8 3 5 11</td> <td>0 2 1 1</td> <td>1 1 0~ 4</td> <td>1 3 , 1 5</td> <td></td>	: •	. 16 17	1 1 0 2	0 0 0 3	.0 0 0 1	1 1 0 12	6 1 5 4 3	8 3 5 11	0 2 1 1	1 1 0~ 4	1 3 , 1 5	
POL 11 0 0 1 1 0 2 1 0 1 SOC 11 6 9 2 3 12 32 25 7 32 PSY 11 4 7 0 3 12 26 24 9 33 SPN 11 1 5 2 4 17 29 13 4 17 SQ [*] DTHER 116 185 68 70 760 1199 798 127 925	•	MEC 11	0	1	0 ```	2	• 4	7	0	1	, 1 4	-
SOC 11 6 9 2 3 12 32 25 7 32 PSY 11 4 7 0 3 12 26 24 9 33 SPN 11 1 .5 2 4 17 29 13 4 17 \mathcal{O}^{OTHER} 116 185 .68 70 .760 1199 .798 .127 .925		PLS 11	0	· 0	0,	• 0 ·	0 ·	0	0	.0		_
PSY 11 4 7 0 3 12 26 24 9 33 SPN 11 1 .5 .2 .4 17 .29 .13 .4 .17 SPN 11 1 .5 .2 .4 .17 .29 .13 .4 .17 SPN 11 1 .5 .68 .70 .760 .1199 .798 .127 .925	`	POL 11	•0,	0	4	1	0	. 2	1.	۰ ۰ ۰	• 1• •	• , 1
SPN 11 1 .5 2 4 17 29 13 4 17 CO ^D THER 116 185 .68 70 .760 1199 .798 .127 .925	•	SOC 11 ;	6	9	2	3	12	32	25	. 7	32	
CO ^D THER 116 185 68 70 760 1199 798 127 925	•	PSY 11	4	7	0.	3.	12 .	26	.24	• 9 ·	33	· •
	• -	-	1	.5	2.	4	17	29	13	4 .	17	
	\$	OTHER	116	185	68	70	76 0 *	1199 ,	7 9 8	(127	925	
ERCOTAL* 165 295 88 125 934 1607 1066 207 1273 24 ints may be enrolled in more than one regular course. The N for unique students is shown in parenthesis after it		OTAL*. ints may be	165 enrolled i	295 In more that	88 n one regul	125 ar course.	934 The N fo	. 1607 or unique studente	1066 v	207	1273	-21

. Zable 4. Distribution of 3 Year High School <u>General Averages</u> for September, 1976 Registered Freshmen (Matrics and Non Matrics).

	,	· · ·				<u> </u>				•	· @	<u> </u>	
Ourriculums	Total N	"Belc	ow 65 	65 - <u>N</u>	69 ·	70 - N	74 P	75 - N	- 79 	80 N	0+ - P	Unknown	
Business Accounting		8	.04	24	. 13	86	.47	53	.29	· 13	.07	27	•
Business Retail	27	2	.08	4	.17	14	.58	3	.13	1	.04	3	
Business Secretarial	, 242	14	.06	18	.08	77	<u>. 3</u> 4	75	.33	44	.19	14 ·	
Data Processing 5	98	5	.06	12	. 14	28	.34	30	.36	8	. 10	15	
Chemical Technology			- `		-	-	`	-	-	· _		- · ·	
Medical Lab Tech	223	15	.08	16	.08	97	.49	47	.24_	23	.12	25	
Plastics Technology	-	·	· •	· -		-	-	· -	•	` -	•. =	-	
Mechanical Tech.	~ 3 6	3	, . 09 、	6	.19	17	.53	``6	.19	- -	*	4	
Electrical Tech.	113 .	6	.06	13	.13	48	:47	23	.22	13	.13	10	
Nursing	189 -	13	.08	17	.10	· 67	. 39	54	.32	19	.11	19	·
Liberal Arts & Sci.	° # 908	57	.07	121	15	417	.53	161	.20	32	.04	120	• • •
Engineering Science		3	. 03	13	<u>`</u> .14	46	.51	22	.24	7	,08	14	÷
Business Adm.	125	: 7	. <u>07</u>	12	.11	49	.46	29	°′ . 27	10	.09	18	
Pre-Pharmacy	42	1	.02 .	4	- .10 [·]	23	.56	8	.20	5	.12	1	
Music & Perf. Arts	24	.4	.17	<u>´3</u>	.13	13	.52	<u>3</u> .	.13		-	1	
Education Associate	. 82	5	.07	.10	.13	34	.45	17	.22	10	·.13	6	`
Undecided or Other	380	57	. 33	100	. 58	5	.03	3	.02	. 7	.04	208	
All Curriculums	ر 2807	200	. 09	373	.16	1021	.44	<u>535,</u>	.23	193	.08	485	

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able 5.

Distribution of 3 Year High School <u>English Averages</u> for September, 1976 Registered Freshmen (Matrics and Non-Matrics).

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۹ پ	··	+		<u>, </u>				· •			<u> </u>		·
Curriculums	Total N	Belo N	ow 65 p	65 - N	[.] 69 р.	70 - N	74 p	75 · N	- 79 P	∖ 80- N	+ . P.	Unknown	
Business Accounting	211	6	.03	49	. 28	48 [′]	.27	· 43	.25	29	.17	<u>3</u> 6	1. 1. 1.
Business Retail	27	3	.13	8	. 33		ŕ.25	4	.17	3	.13	• 3	
Business Secretarial	242	5	.02	43	.20	39	.18	58	. 27	69	.32	28	· .
Data Processing	98	•	.09	`1 6	.20	13	.16	31	. 39	12.	.15	• 19 `	
Chemical Technology	· -			-	, · · ·	· . . –	<u>ه م</u>	-		-	, 	• **	-
Medical Lab Tech	223	·7)	.04	48	.25	55	. 28,	52	.27	<u>31</u>	.16	. 30	
Plastics Technology	<u>.</u>	-	- ~	°		` _			· -	-	· -		
Mechanical Tech.	. 36	2	.06 .	12	. 38	10	. 31	` 6	.19	2	.06	4	
Electrical Tech.	113	6.	.06	16	.16	33	.33	27	.27	17	.17	. 14	*
Nursing	189	1	.01	14	.10	57	.39	41	.28	34 '	.23	.42	,
Liberal Arts & Sci.	908	47	.06	212	.28	213.	:28	184	.24	106	.14	146	
Engineering Science	105	. 6	.07	19	.22_	29	.33	23	.26	<u></u>	.13	¥17	
Business Adm	· 125 · _	5	.05	18	.18	32	.32	29	.29	16 ·	×.16 ⊼ً	25	
Pre-Pharmacy	42	<i>.</i> 4 -	.10	10	.25	15	. 38	6	.15	5	.13	2	
Music & Perf. Arts	* 24	2	.10	5	, 24	<u>\ 8</u>	. 38	2	.10	4	.19	3	;
Education Associate	82	2	.03	13	.18	25	.34	14	.19	19	.26	9	
Undecided or Other	380	35	.21	80	.48	30	. 18	-12	,07	10	.06	213	
All Curriculums	2807	138	.06	563	.25	613	.28	533	<u>~ .24</u>	368	· <u>17</u>	<u>592</u> ·	

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Table 6.Distribution of 3 Year High School Mathematics Averages for September, 1976
Registered Freshmen (Matrics and Non-Matrics).

· · · · · · · · · · · · · · · · · · ·		_ 			<u>.</u>)	
Curriculums	Total N	Below 65 · N p	65 - 69 N p	70 - 74 N p	75 - 79 °. N p	80+ N P	Unknoŵn
Business Accounting	211	20 .19	29 .27	-18 .17	28.26	13 .12	103
Business Retail	27	4 .31 .	4.31	2.15	<u> </u>	2.15	14
Business Secretarial	242 ^{.,}	33 .22	33.22	29 .20	25 .17	27 .18	95
Data Processing **	98	20.36	8 15	<u>.13 .24</u>	· 7 .13	.7.13	43
Chemical Technology				· 	- • -		
Medical Lab Tech	223	34 .27	21 .17	32 .26	•23 .19	14 .11	99
Plastics Technology	•						-
Mechanical Tech.	· 36	6.35	6.35	2.12	3.18		19 , ′
Electrical Tech.	113 .	10.24	16 .24	18 .27	7.10	10 .15	46
Nursing	^² 189	24 .21	17 .15	28 .25	18.16	25 .22	77.
Liberal Arts & Sci.	908	137 .30	129 .28-	105 .23	58.13	32.07	447
Engineering 'Science	105	9 .16	9.16	15 .27	12.21	11 .20	. 49
Business Adm.	125	16 .27 -	· 10 . 17 ·	13.22	10.17	10.17	66
Pre-Pharmacy	42	6.32 •	5.26	421	2 11	2.11	23
Music & Perf. Arts	24	8.62	2.15			08	. 11
Education Associate	82	17 .40	7.17	6.14	•.6.14	6.14	<u>40</u>
Undecided or Other	380	58 .50	42 .36	<u>12</u> .10		5.04	,263
All Curriculums	2807	408 .29	338 .24	298 21	201 .14	166 .12	1396
	< • `	-	:	. 7		·	· 6

Table 7.

Distribution of 3 Year High School Foreign Language Averages for September, 1976 Registered Freshmen (Matrics and Non-Matrics). ¥

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•	,										•		
Curriculums	Total N	Below 6 N p		65 - N	69 P	70 - N	74 P	75 N	- 79 p	- 80 N	+ p	Unknown	د
Business Accounting	211	12 .1	2	22	. 22	24	.24		.17	27	. 26	109	
Business Retail	27	3 .2	0	3	.20	[.] 3	.20	, 3	.20	3	.20	12	
Business Secretarial	242	6.0	4	24	. 15	21	.13	29	.18	77	. 49	85	
Data Processing	98	8.1	.5 .	9	.17	• 9	.17	14	.26	14	. 26	: 44	
Chemical Technology	-1	-	,	_	-	-	-	-		- * -	• -	· ·	
Medical Lab Tech 🗲	223	19 .1	.7	19	.17	14	.13	21	.19	39	. 35	111	
Plastics Technology	- ,			-	-	-	1	•		-	-	-	
Mechanical Tech.	36	3.3	10 1	· 1	.10	1.	.10	· * 3	• .3 0	2	.20	26	
Electrical Tech.	113	12 .2	21	7	.12	10	.17	12	.21	17	. 29	· 55	
Mursing	189	11 .1	.0	23	.21	19	.17	19	.17	37	. 34	80	•
Liberal Arts & Sci.	908		21	103	.23	94	.21	 74	.16	83	. 18	459 ·	v
Engineering Science	105		21	8	.17	. 7	.15	14	.30	8	.17	58	
	125		.9	6	.10	12	.20	12	. 20	18	.31	66	
Business Adm	42			3	.18	3	. 18	2		,7	.41	- 25,	
Pre-Pharmacy	2	-	29	3	.21		.21	2	<u>,</u> .14	2	.14	10	•
Music & Perf. Arts)9	8	.19	5	.12	11	.26	15	.35	39	
Education Associate	82	•		31	.28	15	.13	8	.07	11	.10	268	
Undecided or Other	. 380		4 <u>2</u>	1		240	.18	242	.18	361	.27	1447	
All Curriculums	2807	247	18	270	.20	1_240	. 10	242	.10	1 341			'

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Table 8

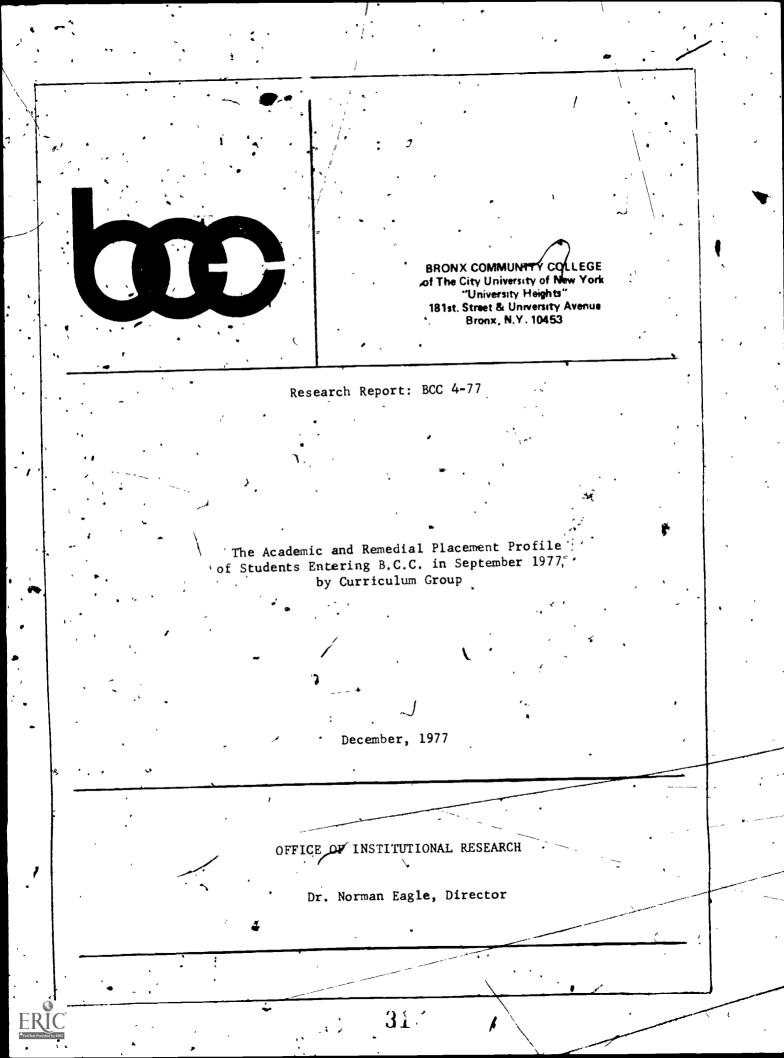
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Comparisons of proportions of high school averages below 70% for students recommended to B.C.C. by the University Applications Processing Center, September 1971 to September 1976.

	<u>1971</u>	. <u>1972</u>	<u>1973</u> <u>1974</u>	<u>1975 1976</u>
	* •	• • •	e energene es	
3 yéar General Average	.47	. 38	.39 .45	.4322
3 year Englis h Av era ge	.32	.27	.30 .37	.37 .27
3 year Mathematics Average	.61	. 59	.56 .54	.51 .47
3 year Foreign Language Average	.45	.43	.42 .41	.38 .34

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The Academic and Remedial Placement Profile

of Students Entering B.C.C. in September 1977

by Curriculum Group

ER

Office of Institutional Research December, 1977

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SUMMARY

As was true last year, nearly three out of four students with identifiable student numbers applying to B.C.C. for Fall, 1977 admission, who subsequently enrolled at the College, were recommended for <u>at least</u> one remedial course in reading or English.

In mathematics, <u>considerably</u> more than half of the students taking placement examinations in mathematics, and who actually enrolled in the College with identifiable student numbers, were placed into remedial courses. The actual proportion could be as high as .75 or higher. (See text for explanation of vagueness.)

3. In terms of actual <u>enrollment</u>, 62% of the <u>entering</u> class registered in <u>one or more</u> remedial reading or English courses, while 41% registered in a remedial mathematics course. In both cases a decline from the Fail, 1976 proportions is seen.

4. The proportion of students recommended to B.C.C. by the U.A.P.C., having high school general averages less than 70%, has increased from .22 in 1976 to .26 this year. Never-the-less, this continues to represent an improvement over the situation existing between 1971 and 1975 when the proportions were generally above .40.

5. Twenty-two percent of the enrolled freshmen have high school <u>English</u> averages less than 70%, while 56% have high school <u>mathematics</u> averages less than 70%.

While some students continue to take substantive, regular, college level courses (i.e., history, English, sociology) without first taking prescribed remedial courses, the situation has improved considerably over that which existed a few years ago.

Some curriculum areas having <u>relatively</u> high proportions of students with low mathematics averages are seen to <u>enroll relatively low</u> proportions of students in remedial mathematics courses. No explanation is evident.

While the academic preparedness of students assigned by U.A.P.C. has improved somewhat since the Fall of 1975, very substantial proportions of entering students continue to require remediation. Additionally, it is not yet clear whether there has been any change in the situation, reported in other Institutional Research documents, which has seen B.C.C. enrol, higher proportions of underprepared students than any other C.U.N.Y. unit. Board of Higher Education enrollment statistics for the Spring, 1977 semester suggest there is a possibility that this situation may be about to change, and that a greater balance among C.U.N.Y. units in proportions of underprepared students may soon be achieved.

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The Academic and Remedial Placement Profile of Students Entering B.C.C. in September, 1977 by Curriculum Group

This report describes the B.C.C. class entering in September, 1977 in terms of <u>high school averages</u> (general, English, mathematics, foreign language) and <u>placements into pre-college level</u> English, reading and mathematics courses, as well as enrollments in these courses. It also examines actual course registrations of enrolled students <u>placed into</u>, though not <u>registered in</u>, these remedial courses.

REMEDIAL PLACEMENTS AND ENROLLMENTS (English and Reading)

• Table 1 shows the distribution of remedial placements into English and reading, for 16 curriculum areas since the Fall, 1971.* These students, while having been assigned matriculation codes, may not have registered at B.C.C. Therefore, these tables are of interest mainly in the comparison of the distribution of <u>placements</u> in previous years with the current class' distribution, regardless of actual subsequent enrollment. Actual <u>enrollments</u> of freshmen are seen in Table 2.

* The table reflects the placement only of students whe actually <u>enrolled</u> in the College. The data generally underestimate the actual proportions placed, even of enrolled students, since many students appear on the Computer Center placement tapes without their students numbers, and hence <u>are not included</u> in this Placement Profile.

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Table 1.

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1. Trend in the proportions of entering and enrolled freshmen recommended for remedial placement in Reading-English, Fall semesters 1971-1977. *

, .	Kea	ading-English		1771 - 1784 1771 - 1784 1871 - 1784	-1977.		•
<u>Curriculum</u>	<u>1971</u>	<u>1972</u>	Reading - 1973	English <u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Business Accounting	.66	81	· .72	.72	.81	.64	, , .78
Business Retail	.59	. 60	.61 .	.63	.73	. 51	64
Business Secretarial 🔹	. 54	.74	.67	.77	.79	.83	.79 · ·
Data Processing	.67	.79 -	.69	76	. 83	· 71	<u>.</u> 77
Chemical Technology	.66	۱ 84	·	. 75	.84	·	'
Medical Lab Technology	.76	. 68	.41	.73	• .77	.78	
Plastics Technology	.71	. 60		. 9 7		· ,	
Mechanical Technology	.75	76.	. 54	.63	.83	.88	.71
Èlectrical Technology	.67	• .74	.58	. 72	.75	.75	.66 .
Nursing/Pre-Nursing	. 68	. 57	.42	.76	.78	.78	.69
Liberal Arts	. 53	.69	.66	.78	.76	.72	.68
Engineering Science	71	. 70	. 43 .	.76	78	ُ .75 ~	.64
Busines Administration	.66	· ,73	.70 ·	68	.76	.66	.77 .
Pre-Pharmacy	.56	• .66	_ 52	74	.78 ~	.86	.67
Music & Perf. Arts	.41	· .56	.50	.67	.64	~ _89	.70
Education Associate	• · ======	·		- 44		.80	.74
Other or Undecided			.55	.76		.46	. 62 ^{°°}
		······································		<u> </u>	Virg	· · · · · ·	
All Curriculums	. 60	.72	63	.74	.78	.70	.71
· · · · · · · · · · · · · · · · · · ·		• ·		· .	·	• • •	· · · ·
			• ·	• •	· ·	• •	•

Tables 1 and 3 give <u>under-estimates</u> of the true proportions of entering, <u>enrolled</u>, freshmen <u>placed</u> into remedial reading, English or mathematics, as the proportions ignore approximately several hundred students, placed into remedial courses, whose student numbers were unavailable at the time of this analysis, thus preventing definite identification as freshmen.

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· · · · · · · · · · · · · · · · · · ·	Kead	, ,	rari seme	esesters s		•	
Curriculum	<u>1972</u>	1973	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	
Business Accounting	.58	. 50	.48	.64	.61	.65	
Business Retail	. 32 🕚	.50 ~	.51	.51	· .79	. 52	
Business Secretarial	. 57	.54	.46	.62	.77	.68	
Data Processing	.63	.64	55	.66	.64	.74	
Medical Lab. Tech.	. 50	.36	.57	.57	.72		
Mechanical Tech. 🖌	• 64 ^{**}	44	.47	1.49	.72	. 47	
Electrical Tech.	. 52	.38	.48	.56	.65	.63	
Nursing/Fre-Nursing	.45	.36	.70	. 60	.74	. 62	
Liberal Arts	. 55	⁻ .50	.43	.47	.66	• 59 ⁻	
Engineering Science	.,50	.33 ⁻	. 39	.61	.70	.51	
Bus. Administration	, . 49	. 56	.45	.46	.66	.70	* -
· Pre-Pharmacy	.40	.44	.45	.57	.69	.51	
Music & Perf. Arts	.44	2.33	. 39		· .73	.61	-
Education Associate			, 	. 50	.77	.68	
Other or Undecided				~	'	.23	
All Curriculums	,	.47	- 47		.69	.62 · 1	•
· · · · ·							
•		••		•		•	
	,	1	-			•	
•	•		•	*	•		

Table 2. Proportions of freshmen enrolled in remedialReading-English, Fall semesesters since 1972.

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Table 1 shows that, as was true last year, almost three out of four <u>identifiable</u> students applying to B.C.C. for Fall, 1977 admission, who took placement tests in the <u>Reading-English area</u>, and who subsequently emplied at the College, were recommended for at least one remedial course in this area. Table 5 shows that 24% were recommended for placement into <u>both</u> a remedial reading <u>and</u> a remedial English (writing) course, a decline of 9% from last year, of 18% from 1975, and of 20% from 1974. In addition, Table 5 shows a sharp rise in the proportion of students placed <u>only</u> into English 01 or 02 (from 11% last year, to 25% this year). These are students who were not also found to be deficient in reading, at least not sufficiently by current standards to have warranted placement into remedial reading.

Actual enrollments of freshmen in remedial Reading-English courses are shown in Tables 2 and 6. It can be seen that 62% of the students are actually enrolled in one of the remedial English-Reading courses, slightly less than the proportion <u>placed</u>. However, 'the total remedial English-Reading <u>enroll</u>-<u>ment</u> proportion for the Tall 1977 entering class, while slightly lower than last year, is markedly higher than the proportions for the three classes entering in the Fall of 1973, 1974, and 1975.

If the mean proportion, plus and minus .05, is taken as the "average" range of proportions across all curriculum groups, the groupings on page 5 show which curricula fall within this "average" range, and which are higher or lower. The groupings reveal that the business secretarial and education associate curriculums continue to show higher than average proportions of students taking remediation in the Reading-English area. In addition, higher than average proportions of students in business administration and data processing also

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Distribution of curriculum areas according to proportions • of students enrolled in remedial <u>Reading-English</u>.

57 🖌 .05 **7**.67 lean p .57 -.67 Mechanical Tech: (.47) Liberal Arts (.59) 7 Business Secretarial (.68) Music & Perf. Arts (.61) Engineering Science (151) Ed. Associate (.68) Business Administration (.70) Pre-Pharmacy (.51) Pre-Nursing (.62) Business Retail (.52 Electrical Tech. (.63) Data Processing (.74) Business Accounting (.65) 38

are enrolled in remedial classes in these areas: By contrast, students in three technical areas (mechanical technology, engineering science, prepharmacy) and in retail marketing show a lower than average enrollment in these remedial areas.

Over the six entering classes since the Fall of 1972, the proportions of students in the various curricula <u>enrolled</u> in one or more remedial Reading-English courses are shown in Table 2.

Intercorrelating the six columns in Table 2 yields a Coefficient of, Concordance (W) of .25 (exactly that of last year) indicating only a weak consistency in the proportions of remedial Reading-English enrollments among curricula, from 1972 to 1977.

REMEDIAL PLACEMENTS AND ENROLLMENTS (Mathematics).

Table 3 shows that approximately 1 out of 2 <u>registered freshmen</u> (for whom student numbers were available) was placed into a remedial mathematics section, a significant drop in the proportion as compared with last year (appreximately 2 out of 3).

Actual <u>enroliments</u> in remedial mathematics classes are shown in Tables 4¹ and 6. Here again, as in the case of <u>placement</u>, a significant decline is seen in the proportion of entering freshmen <u>enrolled</u> in remedial mathematics courses, as compared with last year. The proportion <u>enrolled</u> is seen to be slightly less than the proportioned <u>placed</u> (.41 and .46 respectively).

However, statistics may be somewhat unreliable because of varying numbers of students who are excluded from our analysis due to the unavailability of student numbers. The actual proportion placed is probably somewhat higher.

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Table 3.

Trend in the proportions of entering and enrolled freshmen recommended for Amedial placement in Mathematics, Fall semesters 1971-1977.

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urriculum	<u>1971</u>	1 972	<u>Mathemat</u> 1973	<u>ics</u> 1974	<u>1975</u>	<u>. 1976</u>	1977'
Business Accounting	.57	.51	.61.		.74	57	. 52
Susiness Retail	.47	. 50	. 79	,	. ,82	.67	. 50
s iness Secretarial	.51.	ِرْ 51 [`]	مي 57	·	.71		.43
Data Processing	.45	.40 .	: .52 •	•	.71	4 9	· .39* ·
hemical Tchnology	.33	.52	° -,-		.79	• •	
ledical Lab Technology	.73	62	.74		.72 .	2 69⁻	, - , 2
lastics Technology	.55	.73		· . 		· · ,	~ -
lechanical Technology	.70	• • 56	.79	• (74 🖷	.78	.37
lectrical Technology	.70	.62	. 68	•	☜.76	.55	:52
ursing/Pre-Nersing,	·	.01	.04		.05	.81	. 48
iberal Arts 🖌	.65	.64	. 58	4	.74	.60	. 49
ngineering Science	.56	. 48	58	• , , •	.64	.58	.43
usiness Administratio	on .66		.71	· · · · ·	.78	. 58	.48
re-Pharmacy	.69	.43	.68		.80	.65	. 47
ușic & Perf. Arts	. 29	.39	.25		.81	.53	. 31
ducation Associate	. • 			/	.84	.74	.
ther or Undecided	• · · ·	<u> </u>	.44	•	.68	. 801	.43
All Curriculums	. 56	.54	.57		.68	64	4 6
* See footnote o	on Table 1	*		· · · · · · · · · · · · · · · · · · ·	•	•	
-	۰ ۱ <u>۴</u>	÷ .	4	11.	• a	_^ _	

Table 4. P		ons of fresh 1 semesters			dial <u>Mathe</u>	ematics,	
a.		ł	٠ هر	•	•	•	•`
Curriculum	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	
Business Accounting	. 52	. 37	. 30	:24	53	• .34	
Business Retail	. 23	.46	.24	. 25	. 67	.40	
Business Secretarial	~ 35	.17	.24	· (#11	.50	.29	
Date Processing	. 33	, .40		.25	·.57	.40	
Chemical Technology	" * ~~ (, 1 -	, ·	. 32		`	•
Medical Lab Technolog	y .57	62	60	· 52	.64	⇔ ′−	•
Mechanical Technolog	.56	7,2	. 48	. 49	.58 *	.37	-
Electrical Technology	.60	.69	[*] .53	. 50	.71	.51	
Nursing/Pre-Nursing	.03	.25	:49		.62	.48	. 1
Liberal Arts 🅌	.44	. 39	.25	.28	63	.40	, • ,
Engineering Science	. 52	, ⁵⁰ , . 55	. 54	.54	59	. 4 9	• -
Business Administ.	. 48	. 41	.33	. 21	.62.	. 42	
Pre-Pharmacy	.43	. 58	. 53	. 🚯		· , :53	•
Education Associate	- - -	• Ļ	مر	· 30 *	. 59	51	••
Other or Undecided		ه م ^و ر م م م م م م م		<u>مت * 4</u> ۲	'	¢ ²³	,
All Curriculums	3 7	.40	.32	.29	:60	.41	<u>ا:</u>

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 Table 5. Distribution of Remedial Placements in English, Reading, and Mathematics of students enrolled in the College by Curriculum (matriculated students).

(Numbers are percents)

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Curriculums	ENG 01 only	ENG 02 only	RDL 01 only	RDL 02 only	ENG,01/02	MTH 05	MTH 06	OTHER	Total (Unique) N	*
Bus. Acctg.	13		11	. 12	.31	-46	6	12	165	
Bus. Retail	6	<u>14</u>	8	8	28	50	<u> </u>	. 19	36 *	
Bus. Sec'1.	9	13	15		_25	43	0	12	236	\
Data Proc.	10	14	<u>\ 8</u> . ·	12	33	~ 37	2	12	1101	· · · · · · · · · · · · · · · · · · ·
Chem. Tech.	-	-	-	-		-			<u>´2</u>	*** ******
lech. Tech.	. 17 .	4		4	29.	33	• 4	25	24	
Electric Tech.	17	10 .	5 .	7	27	45		20	115	
Aursing/ Pre-Nursing	13	11	9	10	. 26	48	0	15	292	
Liberal Arts	· 13	14	9	10	22	41		17	425	·
Engin'g Sci.	15	8	11	* 10	20	32	11		87	· · · · · · · · · · · · · · · · · · ·
Bu's. Adm.	16.	10	9	18 -	24	45	3	13	148	
Pre-Pharmacy	. 7	- 7	10	10-1	33	40	. 7	17	30	· · ·
Music & P.A.	14	. 14	6	•11	25	31	0	17	36	· · · · · · · · · · · · · · · · · · ·
Ed. Assoc.	11	13	8.	. 14	28	43	3	13	79	
Undecided/	13	16	8	11,	14	41	2	16	215	
All Curriculums	- •		192	· 235	489	. 849	- 78 -	306	2000	
N.	255 13	12	192	12	24	42	- 4	<u> 15 `</u>		•

actually be enrolled in the courses into which they were placed.

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Table 6. Distribution of Remedial <u>Enrollments</u> in English, Reading, and Mathematics by Curriculum, for entering matriculated students.*

				(Number	s are percent.	s)			•	• • • • •
Curriculums	ENG 01 only	ENG 02 only	RDL 01 only	RDL 02 only	ENG 01/02 & RDL 01/02	MTH 05	• MTH 06	·OTHER	Total (Unique) N	· · · · · · · · · · · · · · · · · · ·
Bus. Acctg.	9	. 8	10	12	26	30	4	27	209 .	(
Bus. Retail	5	14	7	14	12	40	•_0 `	26	42	• •, -
Bus. Sec'1.	6.	. 9	16	16	21	29	0	· 2 3	286	· · · · ·
Data Proc.	6	12	11	. 14	31	39	1	· 20	143	۰
Chem. Tech.		-			<u>t_</u>	· · ·	-	-	2	
Mech. Tech.	. 3		13	13	. 9	28		34	32	,
Electric Tech.	11	5	13	13	<u>21</u>	46	5	21	134 .	· . [
Nursing/ Pre-Nursing	6	• 8	.9	12	27	48	0	22	386	1
Liberal Arts	11	10		12	. 17	· *	7.	27	669,	
Engin'g Sci.	12	7	11	10	. 11	37	· 12	23	98	
Bus. Adm.	9	11	. 13	14	* 23	38	4	18	207	
Pre-Pharmacy	13	15	5	13 -	5 *	50	3	23	40	`. ~ ~
Music & P.A.	· 9	▲ 15	2.	11	24	3 0	0	. 26	46	· ·
Edu. Assoc.	14	· · ·	· 10	. 15	18 -	45	6	17.	100	• .
Undecided/ Other	0	5	. 9	- ⁻ . 9	0	18	5	* 68 · _ ·	22	-
All Curriculums N P	217	228 9	252 10	313 13	5 06 21	898 37	95 . 4	581 24	2418 [#]	- · ·

* Students may enter into both Mathématics and English-Reading statistics.

Total is larger than total in Table 1 because this table includes students who may not have taken placement examinations, or who for some other reason do not appear on the placement tape,

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If the curriculum groups are sorted into three groups (average, below average, above average) as was done for the Reading-English enrollments above, the groupings on Page 12 emerge for enrollments in remedial mathematics courses.

During the period 1972-1975 it was observed that <u>all</u> of the curriculums in the "above average" group (curriculums having higher than "average" proportions of remedial enrollments) were <u>technical</u> in nature, and it was thought that this reflected more stringent requirements in these areas. Last year it was observed that almost <u>every</u> curriculum group enrolled higher proportions of students in remedial mathematics than the highest proportion for any curriculum for the previous year (1975). This year we see a reversion to a more "normal" pattern, with students in four out of six "technical" curriculum groups showing higher than average proportions enrolled in remedial mathematics courses. In contrast, three curriculum groups (business secretarial, business accounting, music) continue to show the lowest proportions of students in remedial mathematics.

Intercorrelating the six columns of Table 4 yields a Coefficient of Concordance (W) of .68 (almost eactly that of last year) indicating a modestly strong degree of consistency in the proportions of remedial mathematics enrolly ments among cutricula, from 1972 to 1977.

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Distr propo	ibution of curriculum areas accord rtions of students enrolled in <u>rea</u> <u>Mathematics</u>	nedial •
	(<u>mathematico</u>	
	· · · · · · · · · · · · · · · · · · ·	· ·····
ن , 36	. Mean <u>+</u> .05	7.46
1 1 1 1 1	. 36*46	
Business Secretarial (.29)	Mechanical Tech. (.37)	Pre-Nursing (.48)
	jet i	Engineering Science (.49)
Music & Perf. Arts (.30)	Business Ret a il (.40) .	
Business Accounting (.34)	Dața Processing (.40)	Electrical Tech. (.51)
1	Liberal Arts (.40)	Education Associate (.51)
	Business Administration (.42)	Pre-Pharmacy (.53)
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PLACEMENT-ENROLLMENT DISCREPANCIES

While there are well over 1,500 entering matriculated students who are enrolled in some kind of remedial course, there is still a considerable number of entering matriculated students who were placed into remedial courses, but who took college level courses without taking the remedial courses assigned. The extent of this situation for the Fall, 1977 entering class is shown in Table 7. This table shows, for example, that of 488 students who were placed into either a remedial English or remedial reading course or both, 54 enrolled in History (11) or (12), 46 in Psychology or Sociology (11), and 59 enrolled in English 13, without taking the _emedial course(es) assigned. (These are not mutually exclusive students, that is, a student with the remediation need specified could be enrolled in more than one college-level course.) The figures are somewhat larger this year than last year in history but lower in English and sociology. It is seen that 23 students who should have been e luded from English 13 specifically for failing to meet entry level writing requirements were, in fact, enrolled in the college-level English course, about the same number as for the past two previous years. In mathematics, only 10 students requiring a remedial mathematics course actually enrolled in a college-level mathematics course. Last year 27 such students were identified. In general, the number of students not taking remedial courses required, but taking college level courses, has markedly declined in comparison with last year.

To restate a point made last year, the large number of students requiring remediation who were, never-the-less, enrolled in college-level courses over recent years resulted in a study designed to follow up the success or

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1 Table 7. Enrolled students with verifiable Fall, 1977 student numbers placed into, but not taking remedial courses; and some courses they are taking.

,				, 	»•				
•	·RDL 01 (58)	RDL 02 (72)	ENG 01 (79)	ENG C2(61)	Any ENG Any RDL (212)	TOTAL (488)	MTH 05(308)	MTH 06(40)	TOTAL (348)
ACC ⁻ 11 ⁻	1	*2**	5	6	4	18	13	3	16 ·
BIO 11 18	- 1 0	1 1	2	4 1	5 , 1 ,	13 - 4	6 · -4	5 0	11
BUS 11 '	· · ·	5	2_*	6	[′] 18	32 _	19	6	25.
CMS 11	9	32 -	17	20	· 83	161	119	13	132 ,
CHM 11	0 :	0	0	· 2	• , 3	5.	0	ĺ ĺ	1 - \
ECO 11	0	• 1	2	- 0 ·	, 1	4	- 4	-1	5
ELC 11	0	1 · /	* 0	0	0	1	0	0	. 0
ENG 13	6	- 30	. 3	14	6 -	. 59	80	16 `	96
FRN 11	0	1	3 "	. 0	° 2	Ģ	1	0	1
HIS 11	•0 :1•	► 1 14 ·	3 11	0 9	1 14	5 49	4 40	0 11	. 4 51
MTH 11 16 17 30	Ò Q Q Q	2 0 0 2	2 0 0 4	2 1 0 . 1	2° 2 0 3	8 3 0 .10	4 1 0 0	0 1 0 0	4 2 0 > 0
MEC 11.	0	1	2	1	. 3	. ? .	1	0	1 -
POL 11	· · · 0	0	0	1.	1.	.2	1	. 0	
șoc 11	О	6	2	`1	·9	18 ·	19	5	24
PSY 11	. 2	. 8	7	7	4 .	28	31	1	32
SPN 11	1	5 ·	10	8.	14 L	~ 38	28	2	30
DTHER	180	, 179 292	222 2 9 8	169 253	626 802 arse The N for un	1376 1847	882 1257	113 178	995 1435

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failure of these students in their college-level courses. This study, <u>not</u> designed to evaluate the effectiveness of remedial programs, found that even without remediation significant proportions of students earn grades of C or higher in <u>some</u> college level courses, while <u>other</u> college level courses yield lower proportions of C or higher grades for these students. In the absence of performance-grade standards the significance of this finding is not clear. A longitudinal study of the history of students who require remediation but either avoid it or do not receive it, compared with comparable students who do take the recommended remediation, may be indicated.

HIGH SCHOOL AVERAGES

The proportions of students at five levels of three-year high school averages, for <u>general academic average</u>, <u>English</u>, <u>mathematics and foreign lang-</u> <u>uages</u>, are Shown in Tables 8-11. Only English and mathematics will be subjected to further analysis in this report.

When the curriculum groups are distributed among the three classification categories used above for enrollments in remedial Reading-English and in remedial mathematics courses, the following groupings from Table 9 occur for the proportion of students entering the College with three year English averages below 70% (excluding curriculum groups of inadequate size):

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Distribution of curriculum areas according to proportions of students earning high school averages less than 70% in <u>English</u> (Registered Freshmen)

.17 Mean p + .05 27 5. .17 - .27 Pre Mursing (.18) . Electrical Tech. (.32) Mechanical Tech. (.05) Education Associate (.22) Pre-Pharmacy (.12) Bus mecretarial (.15) Liberal Arts (.24) Bus. Administration (.24) Business Retail (.15) Music & Perf. Arts (.26) Bus. Accounting (.26) Data Processing (.27) Engineering Science (.27)

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It may be seen that the over all proportion of enrolled new students with high school averages in English below 70% is somewhat lower (.22) than the proportions for last three previous entering classes (.34, .38, and .31 respectively), reflecting the more rigorous entry requirements in force this year and last. The proportion of students entering with high school English averages below 70% is now at its lowest point since the start of Open Admissions and nearly half of the proportion in 1974 when 37% of the entering students had English averages less than 70%. For the fifth consecutive year, the business secretarial curriculum group continues to show a lower than average proportion of students earning averages of less than 70% in high school English, while the four-year tendency for retail business marketing and mechanical technology students to earn higher than average proportions (poorer performance). is <u>not</u> seen this year.

As has been true in previous years, there appears to be little relationship among curriculum groups, between the proportions of registered students earning high school averages below 70% in English, and the proportions of students enrolled in remedial English or Reading courses. The actual correlation for this year's class is +.36.

With regard to <u>high school mathematics</u>, the groupings on Page 18 for proportions of averages below 70% are taken from Table 10 (excluding curriculum groups of inadequate size).

53

. 23 Distribution of curriculum areas according to proportions of students earning high school averages less than 70% in mathematics (Registered Freshmen)

Mean $p \pm .05$.51 ک .61 .51 - .61 Pre-Pharmacy (.44). Business Accounting (.54) Education Associate (.67) . 4 Eusiness Retail (.75) Electrical Tech (.45) Bus. Administration (.56) Bus. Secretarial (.59) Data Processing (.49) Music & Perf. Arts (.78) Liberal Arts (.69) Pre-Nursing (.50) Engineering Science (.50) Mechanical Tech. (.60) /

Over all curriculum areas it can be seen that whereas 56% of all enrolled entering freshmen received high school mathematics grades below 70% (Table 10), 41% are seen to be actually <u>enrolled</u> in remedial mathematics classes (Table 4). This appears to be a reversal of the situation last year when it was reported that the proportion of students <u>enrolled</u> in remedial classes was somewhat higher than the proportion earning high school mathematics averages below 70%. It may also be seen that all of the technical curriculae (with the exception of mechanical technology) show the lowest proportions of students with high school mathematics averages under 70%. Nevertheless, eyen among these technical curriculae percentages of students having high school mathematics averages less than 70% range between 44% and 50%. Again, as last year, retail management and education associate students are among the three groups having the highest proportions of high school mathematics averages below 70%.

The correlation, among curriculum groups, between the proportions of students earning high school mathematics averages less than 70%, and the proportions of students enrolled in remedial mathematics courses, is - 65, significantly different from the zero correlation noted last year. This negative correlation is due mainly to rank order reversals in the education associate, mechanical technology, and business tetail curriculum areas, where relatively high proportions of high school mathematics averages below 70% are matched with relatively low proportions of remedial mathematics enrollments.

Table 12 presents a seven year record of the proportions of students recommended to B.C.C. by the University Applications Processing Center (U.A.F.C. with three year high school averages below 70% in three academic areas and in

the three year general academic average. It is clearly evident that since the end of open admissions and the implementation of progress standards during the 1976-77 academic year, the proportions of severely underprepared students (high school averages below 70%) have declined in three out of the four academic categories shown. Paradoxically, despite these generally lower proportions compared with the open admissions years, this year's proportions are slightly higher an last year's, with the exception of the English average. The some lower proportion in English assigned by the U.A.P.C. to the college (.20) as compared with last year (.27) is reflected in a lower proportion of students enrolled with high school English averages below 70% (.22 vs .31). Likewise the slightly higher propertion in mathematics assigned by the U.A.B.C. to the college (.47 vs .51) is reflected in a slightly higher proportion of students. enrolled with high school mathematics averages below 70% (.53 vs .56). However, as was noted last year, the apparent improvement In the academic "quality" of students enrolled at B.C. since the Fall of 1975 is in marked contrast to the fact that for the entire period of open admissions this college had consistently enrolled the highest proportion of academically underprepared students of any college in C.U.N.Y., with only a few scattered exceptions throughout the period. While there is efidence that this situation may now be changing, the apparent improvement in student preparation should also not obscure the fact that significantly more than half of B.C.C.'s entering students continue to require massive amounts of remediat or developmental (pre-college level) instruction on entrance into the College.

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Table 8...

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B. Distribution of 3 Year High School <u>General Averages</u> for September, 1977. Registered Freshmen (Matrics and Non Matrics).

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• •	,9 *2										¥	
Curriculums	Total N	Below 65 N p	- 65 N	69 p	70 N	- 74 p	75 N	• 1 - 79 p •	* 80- N_	+ P	Unknown	· · · · · · · · · · · · · · · · · · ·
Business Accounting	185	9.07	33	.26	51	40_	26	.21		.06	59	· for
Business Retail	- 39	3.10	 5		. 10_	.33	8	.27.	4.	13	9	
Business Sec'l	256		31	.17	58	.32	43	.23	34	.19	73	·
Data Processing	123	9 .11.	· 12	, 14	. 38	:45	. 15	,18	11.	.13	38	
Chem. Tech.	2 -	2 1.00								<u>'-</u>	• . <u>-</u>	•
Med. Lab, Tech.	- 4	<u>_</u>	• •	-		· -	<u> </u>		-			· · · · · · · · · · · · · · · · · · ·
Mechánical Tech	24 -	•	4	. 20	· 12	.60	4	20	_		4.	
Electrical Tech.	, 119	12	·~13	.15	. · 37	#.43 ₁	-14	.10	10	.12	33	1
Pre-Nursing	348	14 .07	39	. 19	95	.45	32	.15	30	.14	<u>138</u>	, ,
Liberal Arta & Sci.	599 1	30 .09	76	.22	183	. 53	40	.12	18	05	· 252	·
Engineering Sci.	83	3.05	·17	.26	26	.40	13	.20	6	09	18	
Bus. Administ.	180-	11 .10	24	.21	- 54	. 47	. 12	.11 *	13	.11	66	•
Pre-Pharmacy	39	3 .10	. 3	.10	10	.33	. 10	.33	·4	.13	-9	. k
Music & P.A.	45	4 .13	7	.22	• 14	.44		, .19	1	.03	13	
Edu. Associate	91	7 .13	18	.32	22		8	.14	1	.02	35	•
Undecided/ . or Other	62	739*		.06	_ 7	. 39	3	, 	• •	` _	44	
A11 .	. 2199	131 .10	283	. 20	619	.44	235	:17	139	.10	792	• •

Note: Percentages are Ns divided by Total N minus Unknown.

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Table 9. Distribution of 3 Year High.School English Averages for September, 1977 Registered Freshmen (Matrics and Non-Matrics).

•		.	\$ '``	·		·		·
Curriculums	Total	Belaw 65 N P	65 - 69 N P	70 - 74 N P	. 75 N	/19 /P	, 80 ↓ ∞N _ P	Unknown
Business Accounting	. 185	.12 .10	20 .16	48	31	.25	1109	63
Business Retail	39•	04	× <u>3</u> ,11	1030	6 9	.32	518	
Business Sec'1	256	11 .07	. 	. 51 3	2 35	.22	50 .31	96
Data Processing	123	12 .15	10 .12	283		.20	16 .20	41
Chem. Tech.	Ž ·				<u>*</u>	, 33	1 .33	
Med. Lab. Tech.	44			<u> </u>	$3 \cdot 1$.21		·· 5
Mechanical Tech.	24		<u> 1 .05</u> 16 .20	· · ·	8 13	-16	11 .14	38
Electrical Tech.	<u>119</u> 348	15 .08	18 .10	· ·.	4 37	.2 0	35 .19	159
<u>Pre-Nursing</u> Liberal Arts & Sci.	599	33_,10	, 45	1564	8 51	.16 '	40 .12	274
Engineering Ści.	83	4 06	13 .21		38 14	.22	<u>8</u> .13 [.]	20
Les. Administ.	180.	14 .13	12 .11		46 16	.15	15 .14	74
Pre-Pharmacy	39	1 04	2,08	8,	31 8	<u>.31</u>	7' .27)	13
Music & P.A.	45	<u>4, .13</u>	4 .13	117		.19	<u>6</u> .19 612	41
<u>Edu. Associate</u> Undecided/	91	<u>5.10</u>	<u>6</u> .12		48 <u>· 9</u>	10 -		62
or Other	<u> </u>		163 .13		42 _250		211 .16	914
Curriculums	2199		L divided by T			•	•	

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Note: Percentages are Ns divided by Total N minus Unknown.

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-Table 10. Distribution of 3 Year High School Mathematics Averages for September, 1977 Registered Freshmen (Matrice and Non Matrice).

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Curriculums	Total N'	Below 65 N p	65 - 69 N p	70 - 74 N P	75 - 79 N p	80+ <u>N p</u>	Unknown
Business Accounting	185	24 .32	17 .22	17 . 22	9 .12	9 .12	109
Business Retail	39		5 .42	2 .17	1 .08	<u> </u>	27
Business Sec'1	256	33 .35'	23	18 :19	/ 9 .09	12 .13	161
Data Processing	123	18 .37	6 .12.	612	1122	<u> </u>	
Chem. Tech.	2					·	2
Med. Lab. Tech.	4		• <u>1</u>				3
Mechanical Tech.	24	2 .20	4 .40	2.20	2;20 <		<u>1</u> 4
Electrical Tech.	119	8 . 17	13 .28	<u>14 30</u>	5.11		• 72
Pre-Nursing	348	25 .29	18 .21	18 .21	9. ,11	, 15,18	263
Liberal Arts & Sei.	599	80 .43	31 .17	3 3.18	21 .11	1910	415
Engineering Sci.	83	7.19	- 11 .31	7.19	<u> </u>	7.19	47 2
Bus. Administ.	180	20.34	. 13 .22	13 ,):22	<u> 8 •14 </u>	5 .08	121
Pre-Pharmacy	39	6 .33	2.11	5 .28	3 .17	2,11	21
Music & P.A.	45	9.50	5 .28	2 .11	2 4.13	, 	<u>.</u> 27 ·
Edu. Associațe	91	15 .56	3' • .11	5 /.19	,	4 .15	64
Undecided/	· 62	· ·-	· - • ·	•	· · · / · .	- •	. 62
All Curriculums	2199	251 .35	152 .21	142 .20	. 84 .12	88 .12	1482

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Note: Percentages are Ns divided by Total N minus Unknown.

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Distribution of 3 Year High School Foreign Language Averages for September, 1977 Registered Freshmen (Matrics and Non Matrics). Iable, 11.

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Curriculums	Total N	Below 65	65 - 69 N P	70 - 74 N P	75 - 79 N P	80+ • N P	Unknown
Business Accounting		10 . 17	`1525 <i>´</i>	8.13	1322	14 .23	125
Business Retail	39	2 .17	3.25	1 .08	325	3.7.25	27
Business Sec'l	256 -	22 .21	14 .24	13 .13	12 .12	42 .41	153
Data Processing	123	<u>13 .30</u>	716	7 16	8.19	8 <u>19</u>	80,
Chem. Tech.	2						2 , `.
Med. Lab. Tech.	× 4 1	·		2 -	~		2
Mechanical Tech.	24	1 .13	, 1 .13	4 .50	2.25	· - · -	16
• Electrical Tech.	119	. 12 . 35	6.18	. 7 .21	7 .21	2.06	. 85
Pre-Nursing	348 .	24 .29	10 .12	12• .14	13 ,16	24 .29-	265
Liberal Arts & Sci.	599	48 .28 [.]	39 .23	24 .14	21 .12	37 .22	. 430
Engineering Sci.	83	9.30	5.17	4 .13	7 '23	.17	
Bus. Administ.	18,0	12 .20	13	1220	8.14	14 .24 ,	, 121
Pre-Pharmacy	- 39	. 5 .28	·	4 .22	. 3 .17	6.33	21
Music & P.A.	45	6.38	3.19	2 .13	531		29
Edu. Associate	91	10 .31	5.16	<u> </u>	2.06	9.28	59
Undecided/ or Other	62	· ·					62
All • Curriculums	2199.	174 .2	121 .18	106 .16	104 .16	164 .25	. 1530

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Note: Percentages are Ns divided by Total N minus Unknown.

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Table 12. Comparisons of proportions of high school averages below 70% for students <u>recommended to B.C.C.</u> by the University Applications Processing Center, September 1971 to September 1977.

		<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	. <u>1975</u>	<u>1976</u>	<u>1977</u>
🛪 3 year General Av	erage.	.47	.38	• 39.	•45	43	.22	.26
year English Av		.32	- 27 ·	.30	37	.37	.27	•20 ·
3 year Mathematic	s Average	.61	59	.56	.54	.51	•47	.51
3 year Foreign La	•	•45	.43	42	.41	.38	•34	°. . 38

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