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Scholarship and persistence statistics for low-aptitude students in the developmental studies program include: (1) a comparison of the fall 1967 developmental students' grades with the grades for those remaining in spring 1968 and taking regular college classes; (2) the spring 1968 grades in each subject for these same students, and a comparison of their total GPAs with the fall of 1967 GPAs for all students enrolled in the college; (3) a comparison of grades in each course for these same two groups, and a comparison of the percentages in each group receiving a C or better; (4) persistence figures for fall 1965 developmental studies students through spring 1967, including the number of students above and below a C average for each of four semesters; (5) the numbers and percentages of these students completing from one to six semesters, and the number and types of AA degrees granted them; (6) the types of English courses they took, and their grades; (7) a comparison of remedial English grades for fall 1965 and fall 1967 developmental students, fall 1962 probationary students, and fall 1967 regular students; (8) a record of transcript requests by fall 1965 developmental studies students; and (9) some comparative persistence statistics from previous research studies. (MC) studies. (MC)



U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

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LOS ANGELES CITY COLLEGE

"THE DEVELOPMENTAL STUDIES PROGRAM: SOME SCHOLARSHIP AND PERSISTENCE STATISTICS"

Research Study #68-17

Ben K. Gold Hovember, 1968 Office of Research



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## "THE DEVELOPMENTAL STUDIES PROGRAM: SOME SCHOLARSHIP AND PERSISTENCE STATISTICS"

### PURPOSE OF THE STUDY

The Los Angeles fity College Developmental Studies program for "lowaptitude" entering students is now in its fifth year. The program has not
been static, adding and substracting various elements (courses, materials,
techniques, etc.) each semester in efforts to synthesize a program which will
attain maximum achievement of the objectives of the endeavor. For this and
other reasons, evaluation of the program has been difficult. The purpose of
this study is to obtain data which will aid in determining the degree of success of the program in meeting one specific objective: "to provide instructional and guidance experiences for these students which will prepare as many
as possible to perform at a level adequate for probable success in the mainstream of college work"

### PROCEDURE OF THE STUDY

Because of the changing nature of the program, it was decided to make an analysis of the academic performance of recent students in the college "main-stream" after being released from the Developmental Studies program. For this purpose, the Spring, 1968 records of the Fall, 1967 Developmental Studies students were examined in detail and comparisons made with other appropriate groups. In order to obtain persistence data, records of the Fall, 1965 Developmental Studies group were examined over a six semester period.

Transcripts of L.A.C.C. records for all Fall, 1967 and Fall, 1965 Developmental Studies stadents were obtained from the Office of Admissions. These records were analyzed as indicated in the next section. Comparative data for all L.A.C.C. students were obtained from the Office of Instruction, and for other subgroups of students from Research Studies #63-10, 64-15, 66-1, 67-2.



FINDINGS

308 students were registered in the Fall, 1967 Developmental Studies program after the fifth week of the semester, and thus received final grades. Table I indicates grade point averages for the 295 students who completed some work during the Fall, 1967 semester (in which they were enrolled in the Developmental Studies program) and for the 227 students who completed work during the Spring, 1968 semester. Table 1a indicates an estimate (by inspection of courses taken) of majors for those students who obtained a C average in the Spring, 1968 semester.

Figure I illustrates graphically the distribution of grade point averages for these two groups, and also the Fall, 1967 GPA distribution for those students who completed the Spring, 1968 semester.

Table 2 shows the grades made in all subjects taken by the Fall, 1967 Developmental Studies students in the Spring, 1968 semester. Figure 2 illustrates the total grade distribution graphically and permits comparison with grades earned by all L.A.C.C. students in the Fall, 1967 semester.

Table 3 permits comparison of Developmental Studies performance in the various courses taken, as it presents grade point average earned and percent of students earning a C or above for each course in which seven or more students were enrolled. Also presented for comparison purposes is the GPA and percent C or above for all Fall, 1967 students who enrolled in the course indicated. Courses are listed in order of Developmental Studies students' GPA, highest first.

Table 4 indicates four semester persistence figures for the 201 students enrolled in the Fall, 1965 Developmental Studies program. The table indicates how many students (together with percent based on the original 201) completed each semester, together with a breakdown into those above and below a f average.



Table 5 follows the Fall, 1965 Developmental Studies students over six semesters, indicating the number and percent completing from one to six semesters. Also indicated is the number obtaining an AA degree, together with the majors for these graduates.

The records of the Fail, 1965 Developmental Studies students were searched to determine what courses in English were taken subsequent to their experience in the Developmental Studies program. Table 6 presents this information.

Table 7 permits comparison of English 21 performances by Fail, 1965 Developmental students subsequent to their Nevelopmental Studies semester, Fail, 1967 Nevelopmental Studies students in the Spring, 1968 semester, and all L.A.C.C. students in the Fail, 1967 semester. Also presented are statistics for 291 students who entered L.A.C.C. in the Fail, 1962 semester and whose entrance examination score would have qualified them for the Developmental Studies program.

These students took English 21 in their first semester at L.A.C.C.

When a student requests a transcript of his record, a notation is made on his permanent record card. To give some indication as to future intentions of the Fall, 1965 Developmental Studies students Table 8 was prepared, showing the distribution of transcript requests.

Table 9 collects available persistence statistics from previous research studies and presents then for comparative purposes.



Page 4.

- Academic Performance of Fall, 1967 Developmental Studias Studiants in the Fall, 1967 and Spring, 1968 Semesters TABLE i

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			96 9c 3		Falls	57: 161/295 1968: 56/22	= 55% 7 = 25%				<b>,c ~.</b>
				dove c average							•

Spring, 1968 Grade Point Average

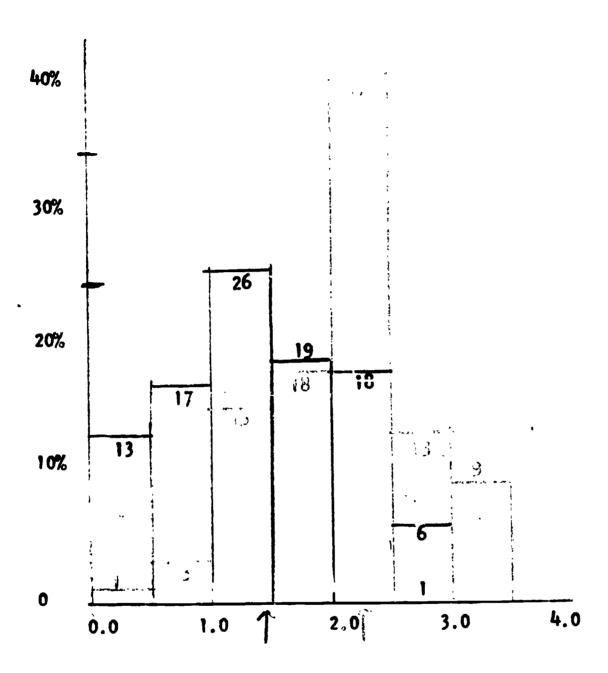


Figure 1 - Distribution of Grade Point Averages of Fall, 1967

Developmental Studies in Fall, 1967 and Spring, 1968

Spring, 1968 in purple (N=227)

and the second of the second o



Mean GPA = 1.42 25% C average or above



TABLE 1 a - Estimated Majors of Successful (above C average)
"Graduates" of Fall, 1967 Developmental Studies Program

MAJOR	Number
Home Economics	9
Secretarial Science	8
Art	7
Business Administration	5
Transportation	4
Police Science	3
Theater Arts	3
Music	2
Dental Technology	2
Radiologic Technology	1
Broadcasting	1
General or Academic	71
deneral of Academic	
Total	56

Of 308 original, 188 (61%) were female Of 56 successful, 37 (65%) were female



TABLE 2 - Grades Farned by Fall, 1967 Developmental Studies Students in the Spring, 1968 Semester

CAN SEP 7	<del></del>	В	C	D	F	WF	INC.	W	"OTAL NO.
SUBJECT	<b>A</b>								
ACCOUNTING		1		,	2	, 1		2	6
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<b>.</b>					1	1			
ARCHITECTURE					2	1		1	7
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ART			1		1	1	1		2
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BIOLOGY									
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BROADCASTING		1							,
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CHEMISTRY			1	}	1		{		1
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CHINESE	2			1	1	I			2
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COMPUTER				1	1				
TECHNOLOGY		1	•					į	
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TABLE 2 - (continued)

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SUBJECT	<u>A</u>	D							
DENTAL ASSISTING 1 2 3 4			2 ! !	2 1 3 3	2	<b>₽</b>		1	5 6 4 3
DENTAL TECHNOLOGY  1 3 4 6 10	1	1 1 2 1	3 2 1 1 2	1 2 2	1				i4 i4 i4 i4
ECONOM ICS 1				1					1
EDUCAT I ON 3	1	9	1						11
ELECTRON   CS 4 5 8 9			1 2 1	1	2 1 ! 1 3	ę		1	5 5 2 2 4
GENERAL ENGINEERING  1  3 32	ĭ			1	3	,			1 1 4
ENGINEERING。TECHNICAL 1 4 5 6			1	1	1				1
ENGLISH 1 2 21 44		1 1 14	3 55	3 16 1	1 5	1		17	9 1 107 1
FRENCH 1		,							1
GEOGRAPHY 1 2			1	1				1	2
GEOLOGY 1			1						1
GRAPHIC ARTS 2 9	1	1							ĵ
ERIC.							1	1	

TABLE 2 - (continued)

SUBJECT	A	В	С	D	F	WF	INC.	W	TOTAL NO.
HEALTH 10		2	10	15	7		2	2	38 4
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12		1							1
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2				1					1
MICTORY									
HISTORY					1				1
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11			5	10	3	1	1	2	22 15
12			4	6	1			4	'?
31			1						'
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1 HOUSTRIAL ARTS				1					1
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TABLE 2 - (continued)

SUBJECT	A	8	С	D	F	WF	INC.	W	TOTAL NO.
MUSIC					1				3
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40 55	2	,	•						2
55 57	1		•						3
60 62			1	•				١	ĺ
68									1
82	3	,						•	4
89	,	•							
NURSING .		,							1
13 44		·	1						1
OFFICE MACHINES	,								
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PHILOSOPHY			•					,	3
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PHYSICAL EDUCATION				,					,
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21 23 35 40					1		,	,	2
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48			1						•
POLICE SCIENCE					1			١,	1
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POLITICAL SCIENCE			2	3	1		į		6
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TABLE 2 - (continued)

SUBJECT	A	8	С	0	F	WF	INC.	V	TOTAL NO
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32 33			į	1					2
SOCIOLOGY					_			4.	20
1			2	11	3			4	20
SPANISH		•	•					1	3
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SPEECH 1		3	8	5	1	1		2	20
3			2	1			•		3 2
21			7				•	1	
31 40		3	ī					1	<b>3</b>
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4	6			1					1
10			1	i			1		3
10 23	_				2		1		3
l <sub>t</sub> O l <sub>t</sub> ls	7	1	1					1	3
		•	•						
TRASPORTATION		3						1	4
3			3						3
7			1						•
ZOOLOGY					_			•	3
5					1			2	<b>.</b>
TATAL	22	109	270	228	126	30	12	98	895
TOTAL	2	12	31	26	14	3	1	11	100%
%	_	14	34	28	16	4	1		100%
(% - W's not Included)	3								
GRADES	FOR ALL 2	a, C, C.	STUDENTS,	FALL 1	967.				
	5452	9539	13680	4851	3227	11.8	858	+775	43510
TOTAL		22	32	* }	ŋ	ţ	2	11	100%
96	12			13	8	3	<b>2</b> .	,	100%
(MM's not encluded)	7 4	25	35	5.7	v	•			

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Figure 2 - Grade Distributions:

Fall, 1967 Developmental Studiès Students in the Spring, 1968 semester (797 grades)

All (ALC stadents in Fall, 1967 (39,735 gradue)

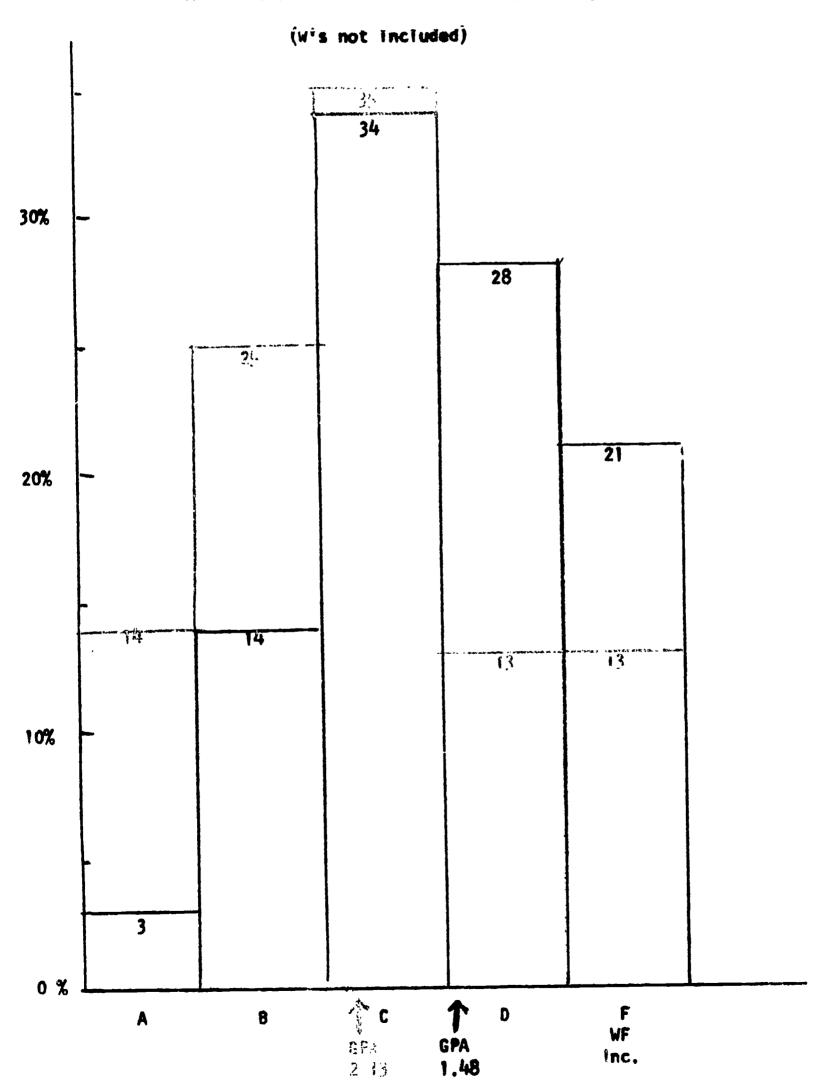




TABLE 3 - Spring, 1968 Performance of Fall, 1967 Developmental Studies Students, According to Success in Courses\*

> Spring 168 Performance of Fall '67 Dev. Studies Studs., of ALL L.A.C.C. Studs.
> (A) (B) (C) (D)

Fall '67 Performance

erse	No, Enri*d.	G.P.A.	% C** or Above	No. Enr1 ° d	G.P.A.	% C** or Above	(A)-(C)	(B)-(D)
Jucation 3	11	3,00	) UG	33	3.87	100	87	0 .
omo Ec. 1	97	2.53	\$ <b>0</b> 6	61	2.28	79	+.25	-21
ome Ec. 13	7	2,43	100	45	3.07	95	64	5
rt 11	9	2.38	88	173	2.35	33	+.03	<b>→ 5</b>
rt 20	12	2,00	75	193	1.94	69	+.06`	+ 6 . 6
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es.9.P. I	14	1.58	<b>5</b> 44	187	2.47		89	-17
sychology I	56	1.51	<b>5</b> 7	1545	2.01	74 20	50	- 2C
wsiness	11	1,50	50	240	2.38	60 34	88	· 24.
ome Ec. 60	10	1,50	66	158	2.36	<b>34</b>	86	., 24,
ecretarial			¥ . •			63	4.2	- 16
Science !	17	1.47	4.7	259	1.90	<b>0</b> )	43	- π <b>5</b> 7
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nglish :	9	1.33	\$.; <b>%</b> ; <b>½,?≥</b>	1356	2.07	<b>59</b>	74 73	-27
cctg. 21	21	1,26	33	88	1.99	30	95	12 × 4 /
cctg. 31	10	1,22	აა 3ზ	202	2.17	61	67	<b>- 25</b>
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ecretarial		1 00	13#X	262	3 02	67	92	-38
Science 31	19	1,00	29 25	241 768	1.92 1.73	62	73	+37
listory II	22	1,00	43 43	61	1.81	62	81	-19
Irch. 5	7	1,00	*5 29	300	2,20	<b>72</b>	-1.25	-43
leth, 30	23	0.95	29 ₹2	696	1.85	68	89	-56
lociology I	20 21	<u>0,94</u> 0,50	0 & 3 t	450	1.53	<b>51</b>	-1.03	-40
loth, 31	22	0,38	e e	187	1.23	<b>ង</b> រ	85	ů.
lusiners 38	8	0,36	9	490	1.81	513	-1.67	-64
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ALL			A .75	43534	9 19	<u> </u>	65	. 2 <sup>4</sup>
COURSES	895	1.48	50	43510	2.13	<i>}</i> ≈ 2	02	" Æ <b>"</b> "

<sup>\*</sup> Courses with 7 or more enrollees



<sup>\*\*</sup> W's not included

TABLE 4 - Four Semester Paisistence at L.A.C.C. of Developmental Studies
Students Fall, 1965

Top figure indicates number completing the semester indicated with C average or above, bottom figure those below C average. Percents of original number indicated in red.

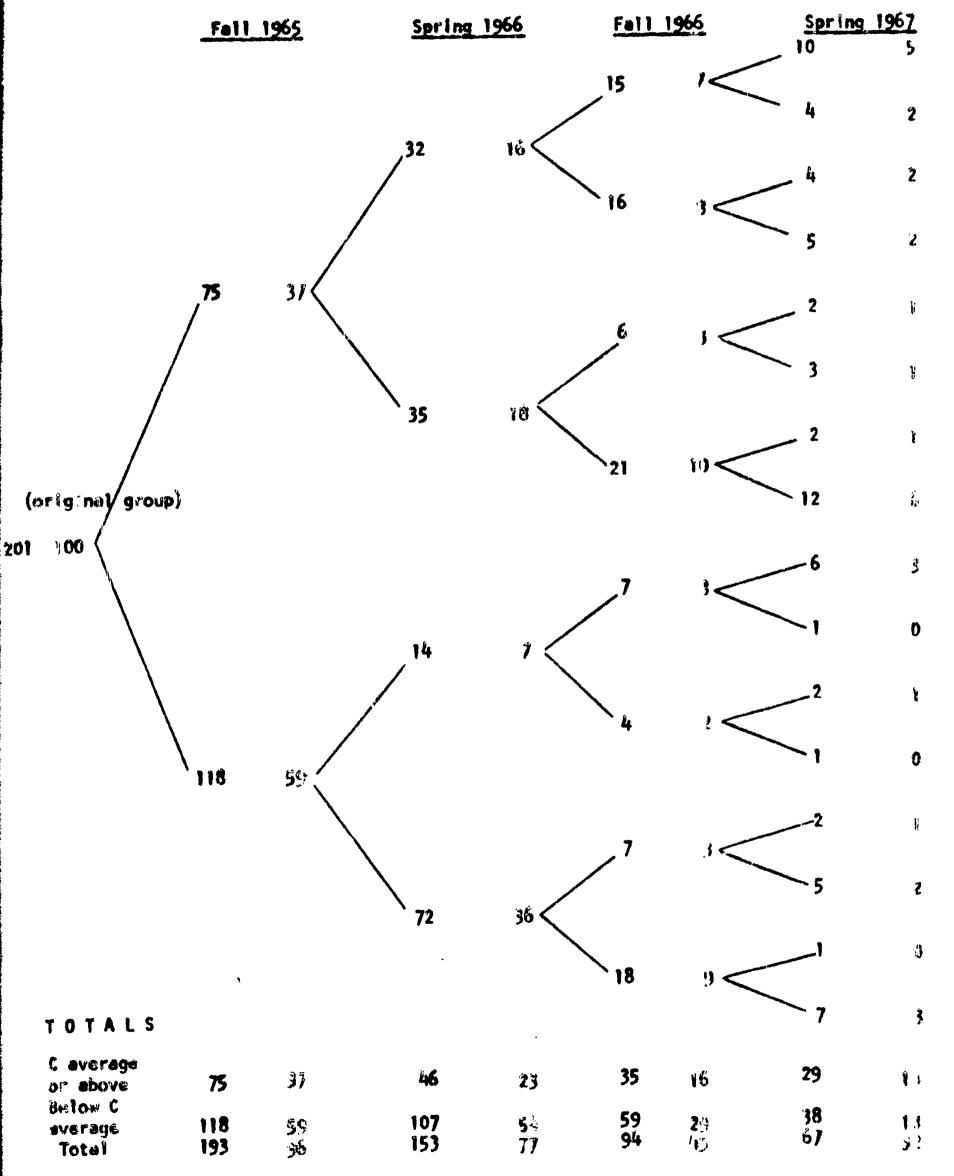


TABLE 5 - Distribution of Number of Semesters Attendance at L.A.C.C by Fall, 1965 Developmental Studies Students (N=201)

No. of semesters attended 1965-68 (not necessarily consecutive)	Humber	% of Total
one or more	193	95 1/1
two or more:	164	32%
three or more	<b>96</b>	48 %
four or more	75	37 %
five or more	41	20 %
six or more	21	10 %

TABLE 6 - Courses (and grades) in English Subsequently Completed at LACC by Fall, 1965 Developmental Studies Students

English 21:		English 3:
A 0		A 0
B		B 1
c36		C 2 GPA
D	GPA = 1.71	D 1
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wf 3		4
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English 1:		C )
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B2		
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23		
English 2:		English 8:
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8 2		
C ]	GPA = 1.60	
D 1		
WF		
	-	

TABLE 7 - Comparative Performances in English 21

	No.	A	В	С	D	F	WF.	Inc.	W	GPA	% C or Above
Spring '68 Per- formance of F'67 Developmental Studies Students	107		14	55	16	5	0	0	17	1.87	7 - 45 10
All Subsequent Performance F:65 Developmental Studies Students	86	0	13	36	17	6	3	0	11	1.71	ic k
All Students Fall, 1967	1243	21	284	462	173	87	37	21	158	1.87	16 16
Entering Proba- tionary Students Fall, 1962	291	0	29	101	84	41	12	5	19	1.37	7. 7.

TABLE 8 - Transcripts Requested by Fall, 1965 Developmental Studies Students

Transcripts sent to:	No.
Self	14
California junior college	36
California State College	35
University of California	2
Other colleges	
Armed Forces	5
High Schools & Special Schools	3
USC Athlexic Department	4
Niscellaneous	. 5

# TABLE 9 - Some Comparative Persistence Statistics

### GROUP:

A - Fall, 1967 Developmental Studies

B - Fall, 1965 Developmental Studies

C - Fall, 1962 random sample of all entrants

D - Fall. 1962 random sample of entrants scoring below SCAT entrance examination probation cutoff

E - Fall, 1958, random sample of all entrants

F - Fall 1958 random sample of entrants scoring below SCAT entrance examination probation cutoff

	0-1-	Inal		N	umber C	omote	ting		هست اجبه سياسته سيبياس		No Re	No Receiving	
GROUP	Originat No.		1 sem.		2 sem.		3 sem.		4 sem.			Degree	
	No.	*	No.		No.	%	No.	78	No.	%			
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NA - information not available



#### CONCLUSIONS

The purpose of this study was to obtain data which would give some indication as to how students who have completed one semester in the Developmental Studies program perform in the "mainstream" of college life. The following conclusions appear to have some validity, based on the findings presented in the last section:

- (1) Developmental Studies students grade point average in their first semester following the Developmental Studies program drops about one half of a grade point from their Developmental Studies GPM (Table !).
- (2) Correlation between GPA in the two semesters is about 0.35, too lew to indicate much predictive ability. A past study (#64-1) indicates correlation of about 0.60 for all students.
- (3) The majority of Developmental Studies "graduates" who made a C average or better in their second semester were majoring in a two year curriculum, with Home Economics and Secretarial Science heading the list (Table 1-a).
- (4) Developmental Studies GPA in their second semester is also about one half of a grade point below that of all L.A.C.C. students in courses taken by Developmental Studies "graduates." However, wide variations in GPA differences between these two groups occur in the various courses taken (Table 2, 3).
- (5) Courses in which Developmental Studies "graduates" appear to have great difficulty are Music 32, Business 38, Mathematics 31, Sociology 1, and Mathematics 30. Performance in each of these courses by Fall, 1967 Developmental Studies students averaged below a D (Table 3).
- (6) Developmental Studies students who took Home Economics and Art courses performed well in these courses, averaging above a C average (Table 3).
- (7) The Fall, 1967 Developmental Studies program apparantly prepared the students to succeed in English 21, at least as well as the average English 21 student (Table 3). Performance in English 21 of these Fall, 1967 "graduates" was slightly better than the everall L.A.C.C. performance, and considerably better than a group of 1962 students who would have been placed in the Developmental Studies program had there been one. It should be noted, however, that Developmental Studies "graduates" were not able to obtain proportionately as many B grades (about 15%) as all college students (about 30%).



- (8) Persistence at L.A.C.C. of Developmental Studies students is clearly greater than that of comparable students who were not in the program, and compares fevorably with available "all college" persistence statistics (Tables 4,5,9).
- (9) Over ten percent of the Fall, 1965 Developmental Studies students subsequently took English i (Table 6), with about three fourths of them earning a C or better.

### **RECOMMENDATIONS**

primarily aimed at improving communication skills. Some evidence in this study indicates that this objective is being partially realized. Overall performence of Developmental Studies "graduates" in the college "mainstream" is low, however, with about three fourths earning below a C average. Courses requiring quantitative skills account in large part for this. It is recommended that:

- (1) consideration be given to making improvement of quantitative skills a major emphasis of the Developmental Studies program.
- (2) counselors of Developmental Studies students become familiar with the information of Tables 2, 3 and 1-a, indicating which courses and majors offer Developmental Studies "graduates" reasonable probabilities of success.



