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Descriptors - \*Business Administration, Graduate Students, Higher Education, \*Masters Degrees, \*Performance

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Charged with developing rigorous and exacting selection procedures, the professional schools at the University of California. Berkeley, must continually evaluate their programs and students. The aim of this study was to identify on the basis of past experience those factors which have been the best predictors of a student's ability to succeed in the master's program of the Graduate School of Business Administration (the MBA). Attainment of the degree was considered the primary indicator of success, grade point average (GPA) was considered only secondarily as a means of differentiating between groups of students equally likely to earn the degree. Application and performance data of all 432 students who entered the MBA program in Falls 1961, 1962 and 1963 were collected. Because academic. performance can be partially explained by a student's proficiency in English, citizenship designations were established. Age at admission appeared to be an important factor in determining the rates at which degrees were earned. Undergraduate GPA had little relationship to success in the MBA program although undergraduate academic recognition and extracurricular activities appeared relevant to later success. The Admission Test for Graduate Study in Business did not prove to be a significant tool in predicting success. Other significant variables are discussed and lists of the factors that encouraged and discouraged degree production are included. Tables illustrate the findings. (JS)

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#### PREFACE

With reference to graduate student enrollments, the Academic Plan for the Berkeley Campus 1968-1975 states that... "the departments should aim to develop rigorous and exacting selection procedures which will insure that they admit students of the highest quality and promise exclusively." Also, in the Plan's discussion of liberal and professional education a note was made that... "Berkeley's professional colleges and professional schools have undergone a significant transformation during the decade now ending. Increasingly, these units emphasize the scientific and theoretical bases of their fields, and require a broad intellectual preparation from their students."

To achieve these goals and maintain these standards, each professional college and school must continually evaluate its programs and students. The Graduate School of Business Administration at Berkeley is one of the professional curricula actively engaged in this process. The evaluation of criteria for admission to programs leading to the degree of master of business administration contained in this study represents an important aspect of the faculty's concern.

The Office of Institutional Research hopes that this study will prove useful not only to graduate schools of business administration, but to other professional programs as well.

Sidney Suslow

Director



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#### INTRODUCTION

This study was undertaken at the request of Associate Dean

Lawrence L. Vance, who is responsible for the graduate programs at

Berkeley's School of Business Administration. Its purpose is to

identify on the basis of past experience those factors which have been

the best predictors of a student's ability to succeed in the MBA program.

Enroughout the study, primary emphasis has been placed on the earning of the degree in determining whether or not a student has been successful. Grade point averages were considered only secondarily as a means of differentiating between groups of students who were equally likely to earn the degree. Thus, a successful student is one who earned the MBA, and the most successful student is the one who maintained the highest grade point average while doing so. These



criteria do not of course, adequately measure the educational process, but additional information was not available without resorting to interviews and questionnaires. Although such techniques might well have yielded valuable data, they were beyond the scope of the present study.

Where grade point averages were used, they were grouped into three broad ranges: below 3.00, 3.00-3.49, and 3.50 or better. This is convenient, and it avoids the implication that minute differences in grade point average (GPA) are significant. The decision to place the lower bound of the highest GPA group at 3.50 was made arbitrarily, but the 3.00 lower bound of the middle group corresponds to the minimum GPA required by the Graduate Division at Berkeley. A graduate student must maintain a GPA in all course work at or above this level in order to receive a graduate degree from the University. The term "dismissed" has been applied to students against whom action was taken under this rule.



#### I METHODOLOGY

Application and performance data for 432 students were considered. These students represent the combined total of new entrants to the MBA program in the Fall semesters of 1961, 1962, and 1963, and they were selected by the Business School because they met two important requirements:

(1) that the group contain no students who are still active in the program, and (2) that the study not include both students who attended primarily under the semester system and those who attended primarily under the quarter system. Although more recent data would be desirable, most students who have entered since Berkeley adopted the quarter system in the Fall of 1966 would not meet the first requirement, and most students who entered during 1964 and 1965 would fail to meet the second.



Since the study deals with such a limited population, it was necessary to group individual observations for most variables in order to have subpopulations of meaningful size. Even with this restriction of detail, the analysis was hampered considerably by small samples. In general, the reader should regard as tentative any conclusions based on samples of less than 40 students (roughly 10% of the population). The technique employed was one of comparing the rate of degree production and the GPA achievement of various groups of entrants with one another and with the population mean. Table 1 presents overall figures on degrees earned and GPA achievement.

TABLE 1

Summary of Findings on MBA Performance	Number of Students	% of Total
Number of Entering Students	432	100
Number of MBA Recipients	326	75
MBA Recipients with GPA 3.50-4.00	132	40
MBA Recipients with GPA 3.00-3.49	180	<b>5</b> 5

Most variables for which data were collected are covered in the text, but some had so little relevance to the dicussion that they have been presented in Appendix 1 only. These supplementary tables take the form of frequency distributions which show separate counts for each entering class.



#### II CITIZENSHIP

Other studies done by this office have found that the academic performance of foreign students differs significantly from that of U.S. citizens. On the theory that this difference is largely explicable in terms of the student's proficiency in English, it was decided to subdivide foreign nationals according to their linguistic backgrounds. Accordingly, three citizenship designations were established: United States, English-speaking foreign, and other (i.e., non-English speaking) foreign. English-speaking foreign countries were identified as those in which English is the most prevalent language according to a linguistic directory in the 1966 Rand-McNally Cosmopolitan Atlas. (For a list of these countries, see Appendix B.) Imperfect as this distinction is, it appears to be meaningful when related to MBA success.



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TABLE 2

# CITIZENSHIP AND TERMINAL ACTION

	TOTAL	RECEIVED MBA	MBA	DISMISSED		WITHDREW	, Ne
CITIZENSHIP	NUMBER OF STUDENTS	NUMBER OF STUDENTS	80	NUMBER OF STUDENTS	: Pc	NUMBER OF STUDENTS %	. 82
United States	346	281	81	19	9	94	13
English Speaking Foreign	20	91	80	1	8	<b>.</b> 7	20
Non-English Speaking Foreign	99	29	777	50	30	17	26
ALL STUDENTS	432	326	75	39	6	29	16

Students from English-speaking foreign countries (see Table 2) are virtually indistinguishable in their performance from United States citizens, while students from countries where English is not the primary language did very poorly. Only 44% received the degree as opposed to 80% of the other two groups, and their rate of dismissal was five times higher than the rate for U.S. citizens.

This is not to deny that some non-English-speaking foreign citizens are successful as MBA students, but it raises the question of whether it is possible to differentiate between non-English-speaking applicants of high potential and those of low potential. Table 3 profiles various subgroups of the non-English-speaking population according to degrees earned, and one can say tentatively (pending examination of larger samples) that potentially successful applicants can be identified on the basis of their undergraduate backgrounds. Lending credence to this statement is the fact that variables which Table 3 shows to be important in predicting the success of non-English-speaking foreign students are much the same as those which succeeding chapters show to be related to MBA success for the overall population.

The reader should be aware that rows (a) through (f) in Table 3 are not mutually exclusive. Rows (g) and (h), however, eliminate doublecounting and show the dichotom; that exists within the "non-English-speaking foreign group" with respect to MBA success.



TABLE 3

## MBA SUCCESS

	NON-ENGLISH-SPEAKING FOREIGN STUDENTS ONLY	NUMBER OF STUDENTS	MBA R	RECIPTENTS	P61
(a)	Undergraduate Major in Mathematics, Engineering or Science	4		<b>4</b>	100
(p)	Attended Undergraduate Institution in U.S.	5		5	100
(o)	Earned Academic Honors as an Undergraduate	16		11	69
(a)	Member of One or Two Extracurricular Organizations	19	-	1	.58
(e)	Member of Three or more Extracurricular Organizations	10		7	70
(f)	President of One or More Extracurricular Organizations	7		9	98
(g)	Students Included in One or More of Above Groups	37		24	65
(h)	Students Not Included in Any of Above Groups	29		5	17
	All Non-English-Speaking Foreign Students	99		29	†††

#### III AGE AT ADMISSION

Having entered an academic program, the student is faced with three terminal actions: he will earn his degree; he will be dismissed; or he will withdraw. Tables 4 and 5 consider these three outcomes for MBA students in relation to their age at admission. Examining the rates at which degrees were earned, it seems clear that age was an important factor.



TABLE 4
STUDENT AGE AND TERMINAL ACTION

	TOTAL	RECEIVED MBA	DISMISSED	WITHDREW
AGE AT ADMISSION	NUMBER OF STUDENTS	NUMBER OF STUDENTS %	NUMBER OF STUDENTS %	NUMBER OF STUDENTS %
Under 25	235	190 81	19 8	26 11
25 to 29	150	114 76	11 7	25 17
Over 29	47	22 47	9 19	16 34
ALL STUDENTS	432	326 75	39 9	67 16



TABLE 5

MBA PERFORMANCE AND AGE AT ADMISSION

	TOTAL NUMBER OF STUDENTS	RECEIVED MBA NUMBER OF STUDENTS	<u>%</u> *	DISMISSED NUMBER OF STUDENTS	<u>%</u> *	WITHDREW NUMBER OF STUDENTS	<u>%</u> *
STUDENTS BY AGE AND GRADUATE GPA							
STUDENTS UNDER 25							
GPA BELOW 3.00		8	3	19	8	12	5
GPA 3.00-3.49		107	46	-	-	8	3
GPA 3.50-4.00		<b>7</b> 5	32	~	~	6	3
GROUP TOTAL	235	190	81	19	පි	26	11
STUDENTS 25-29							
GPA BELOW 3.00		5	3	10	7	10	7
GPA 3.00-3.129		58	39	1	-	11	7
GPA 3.50-4.00		51	34		1	4.	3
GROUP TOTAL	150	114	76	11	7	25	17
STUDENTS OVER 29							
GPA BELOW 3.00		1	2	9	19	11	23
GPA 3.00-3.49		15	32	~		1	2
GPA 3.50-4.00		6	13	<b>-</b>	-	4	9
GROUP TOTAL	47	22	47	9	19	16	34
ALL STUDENTS							
GPA BELOW 3.00		1 <sup>)</sup> 4	3	38	9	33	8
GPA 3.00-3.49		180	42	1	-	20	5
GPA 3.50-4.00		132	30	-		14	3
GRAND TOTAL	432	326	75	39	9	67	16

<sup>\*</sup>Percentages calculated on total students in each age group.



The youngest (under 25 years of age) group had an 81% rate of persistence to the degree compared to only 47% for the oldest (over 29) group. Students in the over 29 age group also had a rate of dismissal more than twice as high as that of the overall population (see Table 4). Students 25-29 years old at admission were approximately at the mean in each performance area.

The specific circumstances under which a student is dismissed were discussed in the introduction. However, there is also a relationship between withdrawals and low GPA. Of the 67 withdrawals shown in Table 5, 50% had cumulative GPAs of less than 3.00 at the time they left. In other words, one half of the withdrawing students apparently withdrew in anticipation of action to be taken against them by the Graduate Division. To follow this reasoning further, Table 6 shows that when withdrawing students are considered separately, a significantly higher percent of the students over 29 years old at admission were in academic difficulty when they withdrew. The sample here is quite small, but it suggest that the "over 29" group not only has a lower probability of earning the degree, but this lower probability can be attributed to an inability to do satisfactory work.

TABLE 6
WITHDRAWING STUDENTS BY AGE AT ADMISSION

		GPA 3.00 AND AB	OVE	GPA BELOW 3	3.00
AGE AT ADMISSION	NUMBER OF STUDENTS WHO WITHDREW	NUMBER OF STUDENTS	%	NUMBER OF STUDENTS	%
Under 25	26	14	54	12	46
25 to 29	25	15	60	10	40
Over 29	16	5	31	11	69



Older students have more in common than the mere fact of chronological age, however. They are more likely to be married and to have children than are younger students,\* and they are less likely to have gone into the MBA program immediately after having earned their undergraduate degrees. Thus it is logical to ask whether these factors are related to MBA success, and if so, whether they account to any significant extent for the poor performance of older students.

Table 7 is concerned with the marital/family status of applicants and their subsequent success in the MEA program. For the study population as a whole, neither the presence nor absence of family responsibilities seems to affect a student's propensity to earn the degree. When age is also included as a variable, married students (including those with children) show some tendency to perform better than unmarried students as age increases. About 50% of the students over 29 who were married earned the MEA, while 40% of the unmarried students in that age group did so. One is safe in concluding, therefore, that older students do not perform poorly as a result of conflict between family and academic obligations. In fact it might be argued that family responsibilities, if they have any effect, act more to spur the efforts of the mature student.

TABLE 7

MARITAL/FAMILY STATUS OF APPLICANTS

MARITAL AND FAMILY STATUS WHEN ADMITTED	TOTAL NUMBER OF STUDENTS	RECEIVED ME NUMBER OF	3A 2	GFA BELOW 3. NUMBER OF	00 <u>%</u>
Not married	279	209	75	60	22
Married	153	1.17	76	25	16
One or more children	54	39	72	12	22
ALL STUDENTS	432	326	75	85	20

<sup>\*</sup>Of the 47 students over 2), 55% were married and 43% had children compared to 35% and 13% for the sample population.



As mentioned above, the number of years between a student's last attendance at a college or university and his entering the MRA program is also related to age. In fact, of those students who had been out of school three or fewer years, 96% were 29 or younger. Tables 8 and 9 examine degree productivity in terms of age and years out of school. The analysis is limited by small sample sizes, but it may be seen that students over 29 do materially worse than the younger students regardless of how long they have been out of school. Again, this implies that age is the important factor.



TABLE 8

AGE AND YEARS OUT OF SCHOOL AS DETERMINANTS OF MBA SUCCESS

		<del></del>			1
	13 d	78	9	22	
ALL STUDENTS	TOTAL MEA STUDENTS RECIPIENTS	282	. 44	326	
ALL ST	TOTAL STUDENTS	359	73	342	
	Pot	50	45	24	
STUDENTS OVER 29	TOTAL MBA STUDENTS RECIPIENTS	8	14	22	
STUDEN	TOTAL STUDENTS R	16	31	24	
NDER	g g	8	7.1	62	
STUDENTS 29 AND UNDER	TOTAL MBA STUDENTS RECIPIENTS	274	30	304	
STUDEN	TOTAL	343	강	385	
	YEARS OUT OF SCHOOL	Zero to 3	Over 3	All Students	

TABLE 9

MBA PERFORMANCE AND YEARS OUT OF SCHOOL

GRADUATE GFA AND YEARS OUT OF SCHOOL	TOTAL NUMBER OF STUDENTS	RECEIVED MBA NUMBER OF STUDENTS	<u>%</u> *	DISMISSED NUMBER OF STUDENTS	<u>%*</u>	WITHDREW NUMBER OF STUDENTS	<u>%*</u>
STUDENTS OUT ZERO YEARS							
GPA BELOW 3.00		7	3	16	7	14	6
GPA 3.00-3.49		108	48	-		9	4
GPA 3.50-4.00		66	29	-		6	3
GROUP TOTAL	226	181	80	16	7	29	13
STUDENTS OUT 1-3 YEARS							
GPA BELOW 3.00		3	2	12	9	10	8
GPA 3.00-3.49		46	35	1	1	5	4
GPA 3.50-4.00		52	39	-		4	2
GROUP TOTAL	133	101	76	13	10	10	14
STUDENTS OUT 3 OR MORE YEARS					ì		
GPA BELOW 3.00		4	5	10	14	9	12
GPA 3.00-3.49		26	35	<del>.</del>	-	6	8
GPA 3.50-4.00		14	20	-	-	14	6
GROUP TOTAL	73	71.71	60	10	14	19	26
ALL STUDENTS							
GPA BELOW 3.00		<b>1</b> ½	3	38	9	33	8
GPA 3.00-3.49		180	42	1	-	20	5
GPA 3.50-4.00		132	30	-	-	14	3
GRAND TOTAL	432	326	75	39	9	67	16

<sup>\*</sup>Percentages calculated on total in each age group.



A final point regarding the sample population and the topic of age at admission is that there exists no unusual relationship between age and citizenship. Although the performance of students over 29 is nearly identical with that of non-English-speaking foreign citizens, they are two distinct groups. Citizenship effectively identifies one group of poor performers, and age, with some minor overlap, identifies another. Table 10 compares the performance of students over 29 by citizenship group, and it confirms that older students earn fewer degrees irrespective of their national origins.

TABLE 10

CITIZENSHIP AND AGE - STUDENTS OVER 29 ONLY

CITIZENSHIP	number of students	NUMBER OF MBA RECIPIENTS	%
Non-English Speaking Foreign Citizens	12	5	42
U.S. and English Speaking Foreign Citizens	35	17	49
TOTAL	47	22	47



#### IV UNDERGRADUATE BACKGROUND

In this chapter the following aspects of undergraduate background are considered: grade point average, major field, transfer institution, academic awards and honors, and extracurricular activities. One would ordinarily expect that these five factors, or at least the first three, would be highly relevant to the task of assessing an applicant's potential for graduate achievement. This did not, however, prove to be true in the case of MBA students.

For example, there is only a very slight and rather eccentric relationship between undergraduate Grade Point Average and MBA Grade Point Average (see Table 11 and Chart 1) and there is no relationship at all between MBA Grade Point Average and degree productivity where the MBA Grade Point Average is 3.00 or above. Thus it is not possible to translate



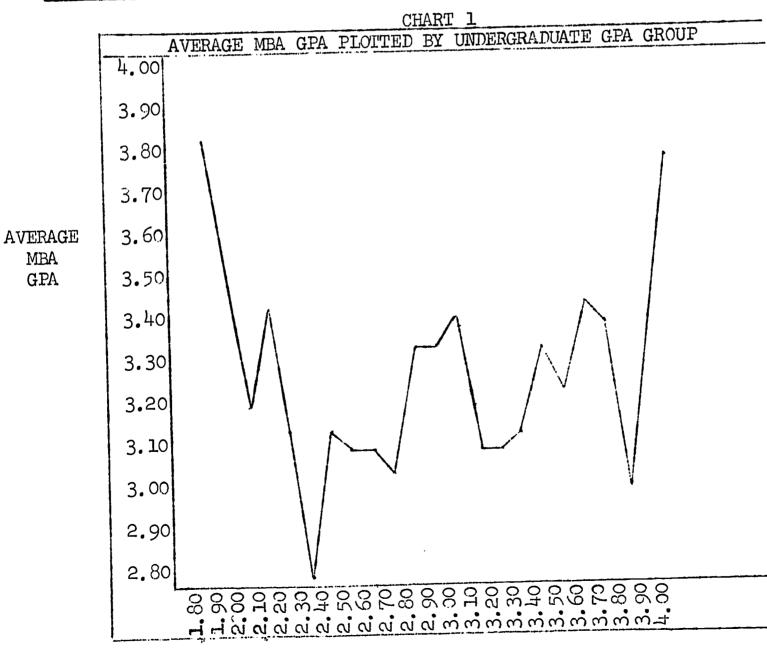
undergraduate GPA into MBA success by means of MBA GPA. Table 12 and 13. taken together, make this point quite clear. It is critical for the MBA student to keep his graduate GPA at or above 3.00, but his undergraduate GPA does not reflect on his ability to do this.



TABLE 11

GPA PERFORMANCE OF MBA STUDENTS BY UNDERGRADUATE GPA GROUP

NUMBER OF STUDENTS	UNDERGRADUATE GPA	AVERAGE MBA GPA	NUMBER OF STUDENTS	UNDERGRADUATE GPA	AVERAGE MBA GPA
1	1.81-1.90	3.85	2 <del>1</del> 4	2.91-3.00	3.35
0	1.91-2.00	-	40	3.01-3.10	3.40
4	2.01-2.10	3.20	27	3.11-3.20	3.10
3	2.11-2.20	3.45	27	3.21-3.30	3.10
5	2.21-2.30	3.15	23	3.31-3.40	3.15
14	2.31-2.40	2.30	15	3.41-3.50	3.35
11	2.41-2.50	3.15	19	3.51-3.60	3.25
12	2.51-2.60	3.10	11	3.61-3.70	3.45
26	2.61-2.70	3.10	9	3.71-3.80	3.40
33	2.71-2.80	3.05	7	3.81-3.90	3.00
34	2.81-2.90	3.35	14	3.91-4.00	3.80





#### MBA GRADE POINT AVERAGE MBA AND DEGREES EARNED

TABLE 12

GPA IN MBA PROGRAM	TOTAL NUMBER OF STUDENTS	NUMBER OF MBA RECIPIENTS	% OF TOTAL
Under 3.00	85	14*	16
3.00 to 3.49	201	180	90
ALL STUDENTS	432	326	<b>7</b> 5

\*These students were granted the degree despite their substandard GPA as a result of special petitions to the Graduate Division.

UNDERGRADUATE GRADE POINT AVERAGE AND MBA GRADE POINT AVERAGE
TABLE 13

UNDERGRADUATE GPA	TOTAL NUMBER OF STUDENTS	STUDENTS WITH MBA GPA 3.00 AND UP	% OF TOTAL
No Data*	93	57	61
Under 2.50	28	23	82
2.50 to 2.99	129	108	84
3.00 to 3.49	132	117	88
3.50 and Above	50	42	84
ALL STUDENTS	432	347	81

\*This group is composed primarily (90%) of students who attended foreign institutions as undergraduates. Their performance has been discussed previously under citizenship.



Even when cross-tabulated directly as in Table 14, there is no meaningful relationship between undergraduate GPA and MBA success.

#### UNDERGRADUATE GRADE POINT AVERAGE AND MBA DEGREES EARNED

TABLE 14

TOTAL NUMBER OF STUDENTS	MBA RECIPIENTS NUMBER OF % STUDENTS		MBA RECTOVER 3. IN NUMBER OF STUDENTS	49 GPA OF %
93	49	53	20	41
28	20	71	7	35
129	108	84	<b>3</b> 8	35
132	112	85	<b>3</b> 8	34
50	37	71;	29	78
432	326	75	132	40
	93 28 129 132 50	OF STUDENTS  NUMBER OF STUDENTS  93 49 28 20 129 108 132 112 50 37	OF STUDENTS     NUMBER OF % STUDENTS       93     49     53       28     20     71       129     108     84       132     112     85       50     37     7½	OF STUDENTS  NUMBER OF % NUMBER OF STUDENTS  93

The range of variation is not large (71% to 85%), and the degree productivity of the lowest undergraduate GPA group is essentially the same as that of the highest undergraduate GPA group. Among those who fail to earn the degree, there is a slight tendency for students with low undergraduate GPAs to be dismissed and for high-GPA students to withdraw voluntarily, but this ralationship is not strong enough to warrant much attention.

Still, undergraduate GPA should not be discounted entirely. When one looks at the GPA achievement of only those students who actually earned the degree (Table 14), one sees that 78% of the MBA graduates from the highest undergraduate GPA group earn GPAs above 3.49 in the MBA curriculum.



This compares with a population mean of 40%, and it shows that there is definite reason to favor the high-GPA applicant if other factors indicate that he has a good probability of earning the degree.

Since academic awards and honors are quite strongly related to undergraduate GPA, it seems best to discuss them here before turning to an analysis of undergraduate majors. Table 15, using the same success criteria as Table 14, groups entrants according to the type of academic recognition they received as undergraduates. In terms of degree productivity there are no significant differences among the three honor groups. The 206 students who received no undergraduate academic recognition were somewhat less successful, however, with 68% persisting to the degree. More important is the performance of these groups with respect to GPA achievement in the MBA curriculum. The positive relationship noted in the discussion of high undergraduate GPA also exists for students with a history of academic honors and awards, particularly those who were elected to Beta Gamma Sigma (the business honorary society). Students without previous academic recognition do quite poorly by this criterion. Thus information on honors and awards is a valuable supplement to undergraduate GPA data.



#### UUNDERGRADUATE ACADEMIC RECOGNITION AND MBA SUCCESS

TABLE 15

TYPE OF UNDERGRADUATE ACADEMIC RECOGNITION	TOTAL NUMBER OF STUDENTS	MBA RECIP NUMBER OF STUDENTS	ients %	MBA RECIPI OVER 3.49 NUMBER OF STUDENTS		
Received One or More Scholarships or Awards	130	105	81	63	60	
On Dean's List/Degree	167	141	84	69	149	
Member of Business Honor Society	25	21	84	15	71	
Students Who Received No Recognition	206	140	68	37	26	
ALL STUDENTS	432	326	<b>7</b> 5	132	40	

#### UNDERGRADUATE MAJOR AND MBA SUCCESS

TABLE 16

UNDERGRADUATE MAJOR FIELD	TOTAL NUMBER OF STUDENTS	MBA RECIP NUMBER OF STUDENTS	ients %	MBA RECIPTOVER 3.49 NUMBER OF STUDENTS	
Engineering and Science	78	63	81	31	49
Business Administration	209	167	80	66	40
Economics	86	52	60	19	37
Other Social Sciences	34	27	79	8	30
Miscellaneous	25	17	68	8	27
ALL STUDENTS	432	326	75	132	40



The undergraduate major of the MBA candidate is another aspect of undergraduate background which is not importantly related to MBA success. Table 16 shows degree productivity and GPA achievement for five undergraduate major groups, (see Appendix 3 for composition of groups).

On the whole, there is little variation among the groups in either category of achievement, although the relatively low degree productivity of economics majors does require comment. This is accounted for by the exceptionally poor performance of economics majors from foreign institutions. This group represents roughly 35% of the economics majors and shows only a 31% rate of degree productivity. The performance of economics majors from U.S. institutions, presented separately in Table 17, is on a par with that of the other major groups shown in Table 16. It can be said, therefore, that undergraduate preparation in economics is not in and of itself disadvantageous to the MBA candidate.

#### MBA PERFORMANCE OF UNDERGRADUATE ECONOMICS MAJORS

TABLE 17

PERFORMANCE OF ECONOMICS MAJORS	TOTAL NUMBER OF STUDENTS	MBA RECIPI NUMBER OF STUDENTS	ents %	MBA RECIPO OVER 3.49 NUMBER OF STUDENTS	
Attended Undergraduate Institutions in the U.S.	57	43	75	16	37
Attended Foreign Undergraduate Institutions	29	9	31	3	33
ALL ECONOMICS MAJORS	86	52	60	19	37



Two aspects of undergraduate background remain to be covered: transfer institution and extracurricular activities. The first of these is quite similar to undergraduate GPA and undergraduate major in that it is not an important predictor of MBA success. In order to facilitate investigation of this point, U.S. institutions were grouped according to a system developed by the Graduate School of Business Administration. The categories of institutions which appear in Table 18 derive from this system, and they are explained in Appendix 4.

UNDERGRADUATE INSTITUTION AND MBA SUCCESS
TABLE 18

	TOTAL NUMBER OF STUDENTS	MBA RECIPIENTS		MBA RECIPIENTS OVER 3.49	
UNDERGRADUATE INSTITUTION		number of students	%	NUMBER OF STUDENTS	%
Berkeley	69	59	86	32	54
Other U.C.	29	19	73	9	47
A.A.U.	67	57	85	17	30
Accredited	187	151	81	59	<b>3</b> 9
Foreign	83	40	48	15	38
ALL INSTITUTIONS	r:35	326	75	132	40

Again the most striking feature of the analysis is the consistency of performance among the groups. The principal exception is the group of students from foreign institutions. A closer look at this group, however, shows that it is 75% composed of non-English-speaking foreign citizens whose low degee productivity has been discussed above. Citizenship (i. e. lack of familiarity with the English language) seems to be more important



here than the candidate's undergraduate institution, and the experience of English-speaking foreign students supports this conclusion. Their rate of degree production equalled that of U.S. citizens (see Table 2), yet 80% attended foreign institutions. Students from U.C. campuses other than Berkeley also appear to earn fewer degrees than do students from U.S. institutions as a whole, but the sample is not large enough to warrant a final judgment.

Data on extracurricular activities are difficult to analyze because of the non-standard way in which students mark this information on their applications and because of the great range of activities which are available on most undergraduate campuses. Nevertheless, the rough measures employed in this study yield interesting results in that there is some relationship between extracurricular activities and MBA success. At least the samples are large enough and the differences in performance sufficiently pronounced to make this conclusion seem reasonable.

A student who reports no memberships (see Table 19) is 18% less likely to earn the degree than the student who claims at least one, and he is 23% less likely to do so than the student who was president of one or more organizations. On the other hand, there is no direct relationship between number of memberships and MBA success, nor do extracurricular activities point to high GPA among MBA graduates. Apparently what is being measured here are factors such as initiative, breadth of interest, and the ability to apply practical knowledge. This being the case, it seems quite logical that there would be a positive relationship with success in graduate school.



#### UNDERGRADUATE EXTRACURRICULAR ACTIVITIES AND MBA SUCCESS

TABLE 19

EXTRA CURRICULAR ACTIVITIES	TOTAL NUMBER OF STUDENTS	MBA RECIPIENTS  NUMBER OF STUDENTS %		MBA RECIPIENTS OVER 3.49 GPA NUMBER OF STUDENTS %	
No Membership	148	94	64	36	<b>3</b> 8
One or Two Memberships	152	125	82	56	45
Three or More Memberships	132	107	81	40	37
Held No Offices	270	200	72	90	45
President of One or More Organizations	814	73	87	29	40
Held Other Offices	70	53	<b>7</b> 6	13	25
Played One or More Varsity Sport	· <b>5</b> 9	47	80	25	53
Not Involved in Varsity Sport	. <b>3.7</b> 3	279	75	107	38



#### V THE ADMISSION TEST FOR GRADUATE STUDY IN BUSINESS

While it may be true generally that the Admission Test for Graduate Study in Business (ATGSB) provides an important new tool for assessing the relative abilities of students who wish to enter MBA programs, Berkeley's experience does not confirm this fact.

Because the ATGSB was not required for admission to Berkeley's MBA program during the period covered by this study, data exist only for the one-third of the entrants who took the test voluntarily in hopes of increasing their chances for admission. Thus, the group for whom we have ATGSB scores includes students who felt they had something to gain (or at least nothing to lose) by taking the test and excludes foreign students, most of whom had no ready access to a



test center. As one might expect, this process of self-selection produced a group of students whose MBA success rate (82%) is somewhat higher than the population mean. To eliminate the effect of this development on our discussion of the value of ATGSB scores as a selection factor, this chapter will restrict the population under consideration to the 139 students who actually submitted ATGSB results. The reader should keep in mind that he must now think in terms of a mean success rate of 82%.

Three areas in which test scores might prove useful were considered.

On the basis of the data available, however, only the quantitative test seems to measure anything of value. The three areas investigated are outlined below, and Table 20, which compares test scores with MBA success, appears at the end of the chapter.

- 1. Are any of the tests in the ATGSB battery effective in predicting whether or not the student will earn an MBA?

  No. On the quantitative and verbal tests, lower scores put the student at roughly the mean in degree productivity, while higher scores put him below the mean. So-called Total Scores are inversley related to degree productivity.
- 2. Since an MBA grade point average below 3.00 virtually precludes a student from earning the MBA (see Table 11), are any of the ATGSB tests effective in identifying students whose GPA is likely to fall in this range?



- No. There seems to be no relationship between the test scores a student earns and his propensity to have a substandard GPA.
- 3. If degree winners only are considered, are any of the ATGSB scores related to the student's MBA grade point average? Yes. There is a definite relationship between all three test scores and the student's ability to earn an MBA GPA of 3.50 or above. This is especially true in the lowest range, but it becomes less important as scores improve.

Because the population is both small and atypical, it is not worthwhile to dwell further on the topic of ATGSB scores. Berkeley has begun to require these tests of all MBA applicants, and the information necessary to explore this subject thoroughly will soon be available. Pending further research, test results should be used with caution. They appear to say nothing about a student's ability to earn the degree, and only seem useful in choosing between two students whose ability to earn the degree has been determined, by other means, to be equal.



#### ATGSB SCORED AND MBA SUCCESS

TABLE 20

ATGSB SCORES	TOTAL NUMBER OF STUDENTS	STUDENTS UNDER 3.00 GPANUMBER OF STUDENTS		MBA RE- CIPIENTS NUMBER OF STUDENTS	% OF TOTAL	MBA RECIPIENTS OVER 3.49 GPA NUMBER OF STUDENTS	% OF TOTAL
QUANTITATIVE							
Under 30	46	5	11	<b>3</b> 8	3	10	26
30 to 34	40	3	8	34	85	12	<b>3</b> 5
35 and UP	53	5	9	42	<b>7</b> 9	18	43
TOTAL	<b>13</b> 9	13	9	114	82	40	<b>3</b> 5
VERBA L							
Under 30	59	6	10	49	83	11	22
30 to 34	43	3	7	<b>3</b> 6	34	18	50
35 and Up	37	4	1.1	29	<b>7</b> 3	11	<b>3</b> 8
TOTAL	139	13	9	114	82	40	35
TOTAL SCORE							
0-499	43	4	9	37	86	9	24
500-549	35	4	11	29	83	12	41
550 <b>-U</b> p	61	5	8	48	79	19	40
TOTAL	<b>1</b> 39	13	9	114	82	40	<b>3</b> 5



#### VI OTHER SIGNIFICANT VARIABLES

This chapter touches briefly upon several aspects of the student's background which are pertinent to this study, but which do not merit chapter length treatment individually. In Chapter III the problem of student age as it relates to MBA success was considered, but no attempt was made to present data on what the applicants did, aside from their experience as undergraduates, prior to entering the MBA program. This information was gathered, however, and is presented in Table 21. The only criterion of success which has been applied is whether or not the student earned the MBA. (Military experience and employment were evaluated as shown in Appendices 5 and 6.)



#### NON-ACADEMIC FACTORS AND MBA SUCCESS

#### TABLE 21

ACTIVITY BETWEEN UNDERGRADUATE AND MBA STUDY	NUMBER OF STUDENTS	MBA REC PIENTS NUMBER STUDENT	OF
Served in Military	129	102	<b>7</b> 9
Worked Full-Time	202	142	70
Had Summer or Part-Time Employment Only	208	168	81
No Employment History	22	15	<b>6</b> 8
Attended Other Graduate Institution	30	12	40



The most interesting item in Table 21 concerns students who attend a graduate institution other than the Graduate School of Business Administration at Berkeley. It is unfortunate that the sample is small because this group's success rate is quite significantly lower than the population mean. There is reason to examine the other potentialities of such an applicant very carefully before granting admission. If he has no clear strengths he would seem to be a poor risk. The other groups are all clustered fairly closely around the mean. The "No Employment" group is, and is always likely to be, too small to be of much concern. The "Military Service" and "Summer and Part-Time Employment" group tend to be younger than the "Full-time Employment" group, and show a higher success rate accordingly.

Another factor of interest is the length of time that students spend in the program. For degree winners, this is primarily determined by the number of 100G courses\* they must take. Students who withdraw, on the other hand, tend to leave almost right away. Table 22 summarizes length of time data. The average time taken to earn the degree was 3.5 semesters, and over 85% of those who earned the degree did so in two to four semesters. Thus, there is no problem of students lingering for extensive periods before earning the degree, nor do unsuccessful students tie up valuable facilities and resourses over long periods only to drop out or to be dismissed in the end.



<sup>\*100</sup>G courses are the graduate equivalents of certain division undergraduate courses which are prerequisite to virtually the entire MBA curriculum. A student who did not major in business administration as an undergraduate would normally spend between one and two semesters compensating for this by means of 100G courses.

Table 22

LENGTH OF TIME IN THE MBA PROGRAM

0-1       h       1       1       13       33       33       41       1         2       60       18       19       17       44       77       18         3       103       32       51       4       10       87       3         4       117       36       87       4       10       97       4         5       29       96       1       1       100       1       1         6 AND ABOVE       13       4       100       -       -       -       -       -         AVERAGE       3.5 SEMESTERS       3.5 SEMESTERS       1.5 SEMESTERS       1.6       -       1.6       -	SEMESTERS COMPLETED	NUMBER OF STUDENTS	RECEIVED MBA CU	MBA CUMULATIVE %	NUMBER OF STUDENTS	155 %	ED CUMULATIVE	W. NUMBER OF STUDENTS	TTHDR	EW CUMULATIVE %
60       18       19       17       44       77       18         103       32       51       4       10       87       3         117       36       87       4       10       97       4         29       9       96       1       1       100       1         13       4       100       -       -       -       -         AGE       100       -       35 SEMESTERS       -       -       -       67	0-1	4	1	Т	13	33	33	<b>Γ</b> †	61	19
103       32       51       4       10       87       3         117       36       87       4       10       97       4         29       9       96       1       1       100       1       1         L       13       4       100       -       -       -       -       -       -         AGE       100       -       35       100       -       67       -       -       67	ઢ	09	18	19	17	<b>††</b> †	77	18	27	88
117         36         87         4         10         97         4           29         96         1         1         100         1           L         326         100         -         -         -         -         -           AGE         3.5 SEMESTERS         -         39         100         -         67	٣	103	8	51	<b>†</b>	10	87	m	<b>†</b>	84
L       29       96       1       1       100       1         L       326       100       -       -       -       -       -         AGE       3.5 SEMESTERS       -       39       100       -       67	ተ	711	36	87	††	10	76	†	9	98
L 326 100 - 39 100 - 67 AGE 3.5 SEMESTERS 2.1 SEMESTERS	5	53	0	96	н	Н	100	п	7	100
326 100 - 39 100 - 67 3.5 SEMESTERS 2.1 SEMESTERS	6 and above	13	7	100	1	ı	1	ı		
3.5 SEMESTERS 2.1 SEMESTERS	TOTAL	326	100	1	39	100		19	100	,
	AVERAGE	e,	5 SEMESTE	RS		P. 1 SE	ESTERS	J.	1.6 SEMESTERS	STERS

A final admissions problem is that of the returning student. As a group, the 41 students who withdrew and returned had a success rate (degrees earned) of 50%. Unfortunately, there is no way of knowing what their MBA grade point averages were at the time they originally withdrew. It is likely that they were readmitted only if they left in good standing (GPA 3.00 or above), but in that case their success rate is low compared to the population mean. In addition, 17% of the returning students were subsequently dismissed compared to a population mean of 9%. Thus it would appear that there is no reason to favor an applicant who is applying for readmission over a new applicant even if the former left voluntarily. Since students who withdrew did not differ significantly from the general population in age, citizenship, and undergraduate background, it is likely that their having once failed to finish the program was an indication of their likelihood to fail again.



#### VII CONCLUSION

The general sense of the foregoing analysis has been to cast serious doubt on the validity of basing MBA admissions decisions on the standard criteria of undergraduate GPA, undergraduate major, and ATGSB scores. Where the goal is to increase degree productivity, these factors seem to be irrelevant. On the other hand, it cannot be said that all applicants have an equal chance of earning the degree. Chapters II and III suggest that careful screening on citizenship and age alone would make possible a 10% increase in the mean rate of degree production. There are also other factors of some importance, but like citizenship and age, they are not really suitable for publication in a list of minimum admissions requirements.

Figure 1 lists the factors which were important with respect to



degree production, and Figure 2 lists factors that were related to high GPA among degree recipients. It would be perfectly possible, of course to base an admissions policy on these factors, but this should not be done without further investigation to be certain that they are valid for larger and more current populations than were dealt with here. In addition the MBA curriculum has undergone considerable change with the advent of the quarter system, and the effect of this on the above findings needs to be considered.

#### FIGURE 1

A student has a high probability of earning the MBA if he:

was president of one or more extracurricular organizations

received an academic honor or award as an undergraduate

was a member of the business honor society

A student is not likely to earn the MBA if he:

is a citizen of a non-Englishspeaking foreign country

was over 29 when admitted

attended another graduate institution before applying to Berkeley

withdrew from the MBA program previously

reports no memberships in extracurricular organizations.



#### FIGURE 2

An MBA recipient is likely to graduate with a GPA of 3.50 or higher if:

his undergraduate GPA was 3.50 or above

he was a member of the business honor society

received one or more scholarships and awards as an undergraduate.

An MBA recipient is unlikely to graduate with a GPA of 3.50 or higher if:

his ATGSB scores were in the lowest performance range (Table 20).



APPENDIX 1

FREQUENCY DISTRIBUTIONS

OF DATA COLLECTED BUT

NOT GIVEN DETAILED

TREATMENT IN TEXT

#### SEX OF STUDENT

SEX	1961	1962	<u> 1963</u>	TOTAL
MALE	141	121	<b>1</b> 49	411
FEMALE	7	5	9	21
TOTAL	148	126	158	432



#### UNDERGRADUATE MAJOR

MAJOR	<u>1961</u>	<u>1962</u>	<u> 1963</u>	TOTAL
Mathematics and Statistics	4	1	1	6
Engineering	21	20	14	55
Physical Sciences	3	6	8	17
Business Administration	70	62	77	209
Other Professional	-	2	-	2
Economics	24	25	37	86
Other Social Sciences	12	8	14	34
Life Sciences or Agriculture	4	-		4
Arts, Humanities, Languages	10	2	7	19
TOTAL	, <b>14</b> 8	126	<b>1</b> 58	432



#### AGE AT ADMISSION

YEAR OF ENTRY

AGE	1961	1962	1963	TOTAL
19 20 21 22 23 24 25 27 28 29 31 31 33 33 33 39 41 42 43 48 56	- 2 5826842 7 5 5 4 1 - 2 1 1 1 1 1 2 - 1 1	12631131839612-312-1-122-	12467357752322-1-1	1333962723689353412213231
TOTAL	148	126	158	432

#### GRADUATE DEGREE HELD AT ADMISSION

#### YEAR OF ENTRY

DEGREE	1961	1962	<u> 1963</u>	TOTAL
None	140	118	152	410
Master's	7	6	5	18
L. L. B.	1	2	1	չ,
TOTAL	148	126	158	432

#### MARITAL STATUS AT ADMISSION

#### YEAR OF ENTRY

MARITAL STATUS	1961	1962	<u> 1963</u>	TOTAL
Not Married	87	83	109	279
Married	61	43	49	1.53
TOTAL	1/48	126	158	432

#### NUMBER OF CHILDREN AT ADMISSION

NUMBER OF CHILDREN	1961	1962	1963	TOTAL
None	130	1.06	142	378
1	9	7	11	27
2	7	6	4	17
3	2	5	1	8
14	-	1	-	1
5	-	1	•	1
TOTAL	148	126	158	432



#### OTHER GRADUATE INSTITUTION

#### YEAR OF ENTRY

INSTITUTION	<u>1961</u>	1962	1963	TOTAL
None	140	113	<b>1</b> 49	402
Berkeley	1	6	1	8
Other U.C.	-	-	-	0
A. A. U.	-	14	5	9
Accredited	3	1	3	7
Foreign	4	2	-	6
TOTAL	148	126	158	432

#### OTHER GRADUATE MAJOR

MAJOR	<u>1961</u>	1962	1963	TOTAL
None	140	113	149	402
Mathematics and Statistics	-	-	-	o
Engineering	-	1	2	3
Physical Scineces	2	1	1	4
Business Administration	2	3	3	8
Other Professional	1	1,	3	8
Economics	2 .	3		5
Other Social Science	-	1	-	1
Life Science and Agriculture	-	-	-	0
Arts, Humanities, Languages	1	-	-	1
TOTAL	148	126	<b>1</b> 58	432



#### NUMBER OF IDENTIFIABLY DIFFERENT SCHOLARSHIPS AND MONITARY AWARDS RECEIVED

#### YEAR OF ENTRY

NUMBER OF AWARDS	<u> 1961</u>	1962	<u> 1963</u>	TOTAL
None	105	87	110	302
1.	29	25	<b>3</b> 5	89
2	9	9	9	27
3	3	2	1	6
14	2	2	1	5
5	-	1	2	3
TOTAL	<b>1</b> 48	126	158	432

# UNDERGRADUATE ACADEMIC HONORS

HONOR RECEIVED	<u> 1961</u>	<u> 1962:</u>	<u>1963</u>	TOTAL
None	93	74	98	265
Dean's List, Honor Group, etc.	51	45	57	153
Graduation Cum Laude	-	3	-	3
Phi Beta Kappa	3	2	2	7
Graduation Summa or Magna Cum Laude	1	2	1	4
TOTAL	148	126	158	1+32



### MEMBERSHIP IN BUSINESS HONORARY SOCIETY (BETA GAMMA SIGMA)

#### YEAR OF ENTRY

MEMBERSHIP	<u> 1961</u>	1962	<u> 1963</u>	TOTAL
Non-Member	142	123	142	407
Member	6	3	16	25
TOTAL	148	126	158	432

#### TYPE OF PREVIOUS EMPLOYMENT EXPERIENCE

EXPERIENCE	1961	1962	<u> 1963</u>	TOTAL
None	14	3	5	22
Summer, Part-Time or Temporary only	38	69	101	208
Marketing and Professional Sales	6	6	5	17
Fiscal and Quantitative Services	15	9	14	38
Education	6	5	4	15
Engineering and Science	15	14	6	35
Administrative or Managerial	8	12	15	35
Other Professions	_	<b>L</b> <sub>4</sub>	2	6
Clerical, Technical, etc.	46	4	6	56
TOTAL	148	126	158	432



#### TOTAL NUMBER OF YEARS EMPLOYED

NUMBER OF YEARS	1961	1962	1963	TOTAL
None	14	3	6	23
ı	35	<b>1</b> 9	62	116
2	32	34	42	108
3	24	23	21	68
4	13	12	9	34
5	8	8	8	24
6	6	7	5	18
7	5	4	-	9
8	2	2	2	6
9 or More	9	14	3	26
TOTAL	148	126	158	432



# NUMBER OF IDENTIFIABLY DIFFERENT MEMBERSHIPS IN CLUBS AND ORGANIZATIONS

#### YEAR OF ENTRY

The state of the s				
NUMBER OF MEMBERSHIPS	1961	1962	<u> 1963</u>	TOTAL
None	51	60	37	148
1	15	19	29	63
2	23	21	45	89
3	20	16	18	54
14	17	չ,	12	33
5	10	4	5	19
6	б	1	4	11
7	3	-	4	7
8	-	-	1	1
9 or More	3	1	3	7
TOTAL	148	126	158	432

#### OFFICES HELD IN CLUBS AND ORGANIZATIONS

OFFICES	1961	1962	<u> 1963</u>	TOTAL
None	82	97	99	278
President of One or More	35	9	40	84
Vice Emesident of One or More	3	5	· 4	12
Held Other Office	28	15	15	58
TOTAL	148	126	158	432



#### TOTAL NUMBER OF YEARS OF MILITARY DUTY

NUMBER OF YEARS	YEAR OF ENTRY			
	1961	1962	<u> 1963</u>	TOTAL
None	101	81	121	303
ı	6	15	2	23
2	15	11	22	48
3	11	10	7	28
14	7	5	5	17
5	3	-	-	3
6	1	-	-	1
7	1	-	ı	2
8	1	-	-	1
9 Or More	2	4	-	6
TOTAL	148	126	158	432

#### MILITARY RANK AT SEPARATION FROM SERVICE

YEAR OF ENTRY RANK TOTAL No Military Experience Lower Enlisted Ranks Upper Enlisted Ranks Junior Officers Senior Officers TOTAL 



#### PARTICIPATION IN VARSITY ATHLETICS

•	YEAR OF ENTRY			
SPORTS	1961	1962	1963	TOTAL
None	115	118	140	373
Football, Basketball Baseball	9	3	10	22
Other Sports	24	5	8	37
TOTAL	148	126	158	432

#### TYPE ACCEPTANCE GRANTED BY UCB

	YEAR OF ENTRY			
TYPE OF ACCEPTANCE	1961	1962	<u> 1963</u>	TOTAL
Regular	138	109	146	393
Conditional	10	17	12	<b>3</b> 9
TOTAL	148	126	158	432



#### FIELD OF SPECIALIZATION IN MBA PROGRAM

	1961	1962	1963	TOTAL
General Curriculum	8	10	6	24
Administration and Policy	27	33	24	84
Accounting	18	12	23	53
Industrial Relations	16	8	7	31
Finance	23	19	37	79
Marketing	32	14	28	74
Production Management	8	8	9	25
Real Estate	3	6	4	13
Transportation	3	1	2	6
Quantitative Methods	1	-	2	3
Operations Research	6	2	5	13
International Business	2	12	1.1	25
Accounting/Finance	~-	1	<b>601</b>	1
Marketing/Finance	1	***	•	1.
TOTAL	148	126	158	432



#### PRESENT STATUS OF STUDENT

#### YEAR OF ENTRY

STATUS	<u>1961</u>	1962	<u> 1963</u>	TOTAL
Received MBA	101	92	133	326
Withdrew-Lacks Comprehensive Exam	-	1		1
Dismissed-Low GPA	13	18	8	39
Withdrew-Other Reasons	34	<b>1</b> 5	17	66
TOTAL	148	126	158	432

#### WITHDRAWALS AND RETURNS

#### YEAR OF ENTRY

1961	1962	1963	TOTAL
145	107	139	391
3	16	18	37
-	3	1	4
148	126	158	432
	145 3	145 107 3 16 - 3	145 107 139 3 16 18 - 3 1

# NUMBER OF UNIVERSITY OF CALIFORNIA APPOINTMENTS\* HELD WHILE ENROLLED IN MBA PROGRAM

UNIVERSITY APPOINTMENTS	1961	1962	1963	TOTAL
None	136	112	144	392
One	12	13	14	39
Two	-	1	-	1
TOTAL	148	126	1.58	432

<sup>\*</sup>Includes teaching and research assistantships, readerships and teaching fellowships.





# OUTSIDE EMPLOYMENT WHILE ENROLLED IN MBA PROGRAM

	1961	1962	<u> 1963</u>	TOTAL
<b>Un</b> known	2	3	4	9
None	126	106	136	<b>3</b> 68
Up to Twenty Hours/Week	16	10	17	43
Over Twenty Hours/Week	14	7	1	12
TOTAL	148	126	<b>1</b> 58	432



#### CLASSIFICATION OF CITIZENSHIP

ENGLISH-SPEAKING FOREIGN COUNTRIES\*

**ANTIGUA** 

AUSTRALIA

BAHAMAS

BERMUDA

BRITISH HONDURAS

CANADA

ENGIAND (INCLUDING NORTHERN IRELAND AND OTHER UNITED KINGDOM)

GUYANA

**IRELAND** 

JAMAICA

MALITA

NEW ZEALAND

SCOTIAND (UNITED KINGDOM)

SOUTH AFRICA, UNION OF

WALES (UNITED KINGDOM)

\* TAKEN FROM RAND MCNALLY, COSMOPOLITAN ATLAS 1966. ENGLISH SHOWN AS PRIMARY (MOST PREVALENT) LANGUAGE.



#### CIASSIFICATION OF MAJOR FIELDS

#### MATHEMATICS OR STATISTICS

MATHEMATICS
STATISTICS
STATISTICS
QUANTITATIVE METHODS

APPLIED MATHEMATICS
LOGIC AND METHODOLOGY

ENGINEERING

CIVIL ENGINEERING PETROLEUM ENGINEERING
ELECTRICAL ENGINEERING AGRICULTURAL ENGINEERING
MECHANICAL ENGINEERING IRRIGATION ENGINEERING
ENGINEERING SCIENCE METALLURGY SCIENCE
MINING SANITARY ENGINEERING
CERAMIC ENGINEERING TRANSPORTATION ENGINEERING
INDUSTRIAL ENGINEERING NUCLEAR ENGINEERING

INDUSTRIAL ENGINEERING NUCLEAR ENGINEERIN
PROCESS ENGINEERING COMPUTER SCIENCE
NAVAL ARCHITECTURE

PHYSICAL SCIENCES

CHEMISTRY ASTRONOMY
PHYSICS GEOLOGY
GEOLOGY

BUSINESS ADMINISTRATION

BUSINESS ADMINISTRATION

MARKETING

FINANCE

REAL ESTATE

PRODUCTION MANAGEMENT

ACCOUNTING

INDUSTRIAL RELATIONS

GENERAL BUSINESS

HOSPITAL ADMINISTRATION

COMMERCE

OTHER PROFESSIONAL

ARCHITECTURE

DESIGN

CITY PIANNING

DECORATIVE ART

LIBRARY SCIENCE

CITY PIANNING

EDUCATION

OPTOMETRY



PUBLIC HEALTH SOCIAL WELFARE MEDICINE OR PRE-MED PRE-LAW OR LAW

DENTISTRY NURSING
PHARMACY CRIMINOLOGY
PHYSIOLOGICAL OPTICS BIOSTATISTICS

PHYSICAL EDUCATION ENVIRONMENTAL HEAITH SCIENCE

JOURNALISM BROADCASTING

PUBLIC ADMINISTRATION VETERINARY MEDICINE

**ECONOMICS** 

ECONOMICS

AGRICULTURAL ECONOMICS

OTHER SOCIAL SCIENCES

ANTHROPOLOGY HISTORY

GEOGRAPHY POLITICAL SCIENCE

SOCIOLOGY INTERNATIONAL RELATIONS

SOCIAL STUDIES AMERICAN STUDIES

AMERICAN CIVILIZATION PSYCHOLOGY

SIAVIC STUDIES IATIN AMERICAN STUDIES

ASIAN STUDIES GOVERNMENT

LIFE SCIENCE AND AGRICULTURE

LIFE SCIENCE
BACTERIOLOGY
BOTANY
BIOCHEMISTRY
PHYSIOLOGY
PHYSIOLOGY
BIORADIOLOGY
BIORADIOLOGY

MICROBIOLOGY COMPARATIVE BIOCHEMISTRY

BIOPHYSICS MEDICAL PHYSICS
ENDOCRINOLOGY AGRICULTURE
ENTOMOLOGY FORESTRY
GENETICS HORTICULTURE

PLANT PATHOLOGY POMOLOGY

SOIL SCIENCE AGRICULTURAL CHEMISTRY

ANIMAL HUSBANDRY
PIANT PHYSIOLOGY
FOOD SCIENCE
POULTRY SCIENCE
AGRONOMY
HOME ECONOMICS
RANGE MANAGEMENT
WOOD TECHNOLOGY



#### ARTS, HUMANITIES, AND LANGUAGES

ART
DRAMATIC
ENGLISH
GERMAN
SCANDINAVIAN
SPEECH
ARCHEOLOGY
PHILOLOGY
COMPARATIVE RELIGION

MUSIC
ROMANCE LITERATURE
FRENCH
NEAR EASTERN LANGUAGES
HISTORY OF ART
CLASSICS
LINGUISTICS
PHILOSOPHY



#### CLASSIFICATION OF UNDERGRADUATE INSTITUTIONS

Students who earned their undergraduate degrees within the UC system were divided into two groups: those who attended Berkeley and those who attended a UC campus other than Berkeley. For students who entered Berkeley's MBA program from outside the UC system, classification criteria derive from the Report of Credit Given by Educational Institutions (1961 Edition) as prepared by T.E. Kellogg for the American Association of Collegiate Registrars and Admissions Officers. The catagories were defined as follows:

AAU - institution is accredited and a member of the Association

Accredited - institution is accredited but not a member of the Association

Other - a U.S. institution not in either of the above catagories\*

Foreign - any institution not located in the U.S. or its territories and possessions.



<sup>\*</sup>Although students from non-accredited institutions have been admitted to Berkeley, none were present in the sample group

# CIASSIFICATION OF MILITARY RANK - INTERSERVICE EQUIVALENTS

NAVY (AND COAST GUARD)	SEAMAN RECRUIT SEAMAN SEAMAN PETTY OFFICER THIRD PETTY OFFICER SECOND	PETTY OFFICER FIRST CHIEF PETTY OFFICER SENIOR CHIEF PETTY OFFICER MASTER CHEIF PETTY OFFICER	WARRANT OFFICER COMMISSIONED WARRANT ENSIGN LIEUTENANT JUNIOR GRADE LIEUTENANT COMMANDER CAPTAIN READ ADMIRAT	VICE ADMIRAL ADMIRAL
MARINES	PRIVATE PRIVATE FIRST IANCE CORPORAL CORPORAL SERGEANT	STAFF SERGEANT GENNERY SERGEANT FIRST SERGEANT MASTER SERGEANT MASTER GUNNERY SERGEANT SERGEANT	MAJOR LIUETENANT SECOND LIEUTENANT FIRST LIEUTENANT CAPTAIN MAJOR LIUETENANT COLONEL COLONEL BRIGADIER GENERAT.	MAJOR GENERAL LIEUTENANT GENERAL GENERAL
ARMY	PRIVATE FIRST CORPORAL SERGEANT SPECIALIST IV SPECIALIST V	STAFF SERGEANT SERGEANT FIRST CLASS PIATOON SERGEANT MASTER SERGEANT FIRST SERGEANT SERGEANT	WARRANT OFFICER CHIEF WARRANT SECOND LIEUTENANT FIRST LIEUTENANT CAPTAIN MAJOR LIEUTENANT COLONEL COLONEL RRIGADTER GENERAL	MAJOR GENERAL LIEUTENANT GENERAL GENERAL
AIR FORCE	BASIC AIRMAN AIRMAN THIRD AIRMAN SECOND AIRMAN FIRST STAFF SERGEANT	TECHNICAL SERGEANT MASTER SERGEANT SENIOR MASTER SERGEANT CHIEF MASTER SERGEANT	WARRANT OFFICER CHIEF WARRANT SECOND LIEUTENANT FIRST LIEUTENANT CAPTAIN MAJOR LIEUTENANT COLONEL COLONEL BRIGADIER GENERAL	MAJOR GENERAL LIEUTENANT GENERAL GNNERAL
LOWER ENLISTED RANKS	JIPPER ENLISTED RANKS	JUNIOR OFFICERS	SENIOR OFFICERS	

#### CLASSIFICATION OF EMPLOYMENT

GENERAL COMMENT IN REGARD TO SELF-EMPLOYED PERSONS: IF THEY DID NOT LOGICALLY FALL INTO ANY OF THE GROUPS SET FORTH BELOW, THEY WERE CLASSIFIED UNDER APMINISTRATIVE AND MANAGERIAL.

CATEGORY

TYPICAL JOB TITLES

SUMMER, PART-TIME, ETC.

SELF-EXPLANATORY

MARKETING AND PROFESSIONAL SALES

MANUFACTURER"S REPRESENTATIVE

SALES REPRESENTATIVE FIELD REPRESENTATIVE

CORPORATE SALES REPRESENTATIVE

WHOLESALE AGENT INSURANCE SALESMAN REAL ESTATE SALESMAN

SALES TRAINEE (MARKETING TRAINEE)

AGENCY REPRESENTATIVE

ADVERTISING MAN

FISCAL AND QUANTITATIVE SERVICES

ACCOUNTANT

AUDITOR

JUNIOR ACCOUNTANT ACTUARY (TRAINEE) CLAIMS REPRESENTATIVE

PROGRAMMER

SYSTEMS ANALYST BUDGET ANALYST

MANAGEMENT INFORMATION SPECIALIST

STATISTICIAN

CERTIFIED PUBLIC ACCOUNTANT

EDUCATION

TEACHER

DEAN

INSTRUCTOR PROFESSOR, ETC.

PRINCIPAL

SCHOOL ADMINISTRATOR

LIBRARIAN

ENGINEERING AND SCIENCE

ENGINEER-CIVIL, MECHANICAL, TRAFFIC, EI

PHYSICIST BIOLOGIST GEOLOGIST

TECHNICAL WRITER RESEARCH CHEMIST



#### **CATEGORY**

#### Tipical Job TITIES

#### ADMINISTRATIVE AND MANAGERIAL

FACTORY OFFICE MANAGER PERSONNEL REPRESENTATIVE

INDUSTRIAL RELATIONS SPECIALIST (TRAIN)

SALES MANAGER (STORE MANAGER) OFFICE MANAGER (BRANCH MANAGER)

ADMINISTRATIVE ASSISTANT

PROJECT DIRECTOR LOAN OFFICER

PUBLIC RELATIONS SPECIALIST

SUPERVISOR

HOSPITAL ADMINISTRATOR

OTHER PROFESSIONS

PHYSICIAN LAWYER NURSE **EDITOR** JOURNALIST SOCIAL WORKER PROBATION OFFICER

ARCHITECT **PSYCHOLOGIST** OPTOMETRIST **PHARMACIST** DESIGNER CONTRACTOR PHOTOGRAPHER

RADIO OR TV ANNOUNCER

CLERICAL, TECHNICAL, BLUE COLIAR, ETC.

DRAFTSMAN

RADIO TECHNICIAN MEDICAL TECHNICIAN LAB TECHNICIAN

BOOKKEEPER SURVEYOR

SECRETARY-STENOGRAPHER

CLERK

COMPUTER PROGRAMER TAB MACHINE OPERATOR

RETAIL SELLING STOREKEEPER BANK TELLER

PRINTER WELDER FARMHAND WAREHOUSEMAN TRUCK DRIVER

MECHANIC

