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## ABSTRACT

This report provides previously unpublished data
gathered during Project focus, a nationwide sample survey of community and junior colleges, on the vocational plans and expectations of full-time students enrolled in fall 1970. The data were drawn froma sample of 10,250 . student responses from 92 institutions. The report tabulates data on student characteristics (age, sex, ethnic group, father's occupation, timing of vocational choice, sizze of hometown community) against two vocational variables expected.main vocational roles or occupations and expected fields of specialization. The potential vocational fields of specialization consisted of 98 areas within nine major fields: education; social science or religious; business, political, ánd-persuasive; Fscientific; agriculture and forestry; health; arts and humanities; engineeringi and trade, industrial, and technical. The vocational roles within fields were combined in five broad groups (administrazor or supervisor, promoter or salesman of servicesi etc.). Appendixes. include the survey instrument and a description of the sample and neighting pfocedures., (BB)

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## 为 <br> Vocationat Plans of Full-Time Community and Junior College Students, Fall 1970

## CONTENTS

Page
Introduction ..... 1
Vocational Roles Expected by Full-Tıme Community and Junıor College Students ..... 2
Expected Vocations of FuH.Time Community and Junior College Students ..... 3
Appendix A-Sampling Procedure ..... 13
Appendix B-Student Questionnare ..... 21
Figure
A•1. Project Focus Sample Stratufication ..... 14.
Text Tables

1. Number and percent of full-time community and junior college students, by race or ethryc background and sex and by expected vocational role • 48 States and D.C., fall 1970 ..... 4
2. Number and percent of full-time community and junior college students, by age and sex and by expected vocational role• 48 States and D.C., fall 1970 ..... 4
3. Number and percent of full-time community and junfor college students, by father's occupation and by expected vocational role: 48 States and D.C., fall 1970 ..... 5
4. Number and percent of first-year and second-year full-time community and junior college students, by sex and by expected vocational role. 48 States and D.C., fall 1970 ..... 5
$5-\mathrm{A}$. Number and percent of male full-tume communty and junior college students, by timing of vocational choice and by expected vocational roles: 48 States and D.C ${ }_{\text {; }}$, fall 1970 ..... 6
5 -B. Number and percent of female full-time community and junior college students, by tuming of vocational choice and by expected vocational role: 48 States and D.C., fall 1970 ..... 6
5. Number and percent of full-ume communty and junior college students. by expected vocational role in expected vocational field: 48 States and D.C., fall 1970 ..... 7
6. Number and percent of full-time communty and junior cullege students, by race or ethnic background and sex and by expected vocational field: 48 States and D.C., fall 1970 ..... 7
7. Number and percent of full-tıme community and junior college students, by father's occupation and by expected vecational field: 48 States and D.C., fall 1970 ..... 8
9-A. Number and percent of male full-time community and junior college students, by timing of vocational choice and by expected vocational field: 48 States and D.C., fall 1970 ..... 8
9-B. Number and percent of female full-ume community and junior college students, by timing of vocational choice and by expected vocational field: 48 States and D.C., fall 1970 ..... 9
10-A. Number and percent of male full-time communty and jumior college students, by size of hometown community during high school and by expected vocational field. 48 States and D.C., fall 1970 ..... 9
10-B. Number and percent of female full-time community and junior college students, by size of hometown community during high school and by expected vocational field. 48 States and D.C., fall 1970 ..... 10
8. Number of full-tume community and junior college students, by age, race, and sex and by expected vocational field: 48 States and D.C., fall 1970 ..... 11

## Page

11-A'. Percent of full-time communty and juntor "cillege students, by age race, and sex and"by their expected vocational field. 48 States and DC.. fall 1970 ..... 12
; Appendix Tables
A-I. Project Focus regonal breakdown ..... 15
A-2 Numbers of and enrollments in publac communty and juntor colleges in the Unted States, by region and enrollment size Fall 1970 ..... 15
A- 3 Numbers of public and private community and juntor colleges in desired and detual Project Focus sample, by region and enrollment stze ..... 16
-A-4 Distribution of turndowns, by region and tinstitutional status ..... 16
A. 5 Project Focus student response to questionnaires ..... 19

This report provides previously unpublished datagathered during Project Focus, a nationwide sample survey of communty and jumor colleges. on the vocattonal plans and expectattons of full-time community and junnor college students Through a U.S. Office of Education gramt for the National Center for Education Statistics. the Project Fucus tean prepared tabulations of this adhtional information on the students enrolled in fall 1970.
 expected man vocational roles or occupations and therr expected fields of spectalization as specified in the questoonnare (appendix B).

Pruject Focus, funded by the W. K. Kellogg Foundation, resulted in several publications. The booklet $A$ Report From Project Focus, published by the American Assuctation of Commumty and Jumor Colleges (AACJC). contaned recommendations for change in the scope and functon of AACJC. The book Project Focks . A Forecast Study of Communtey Colleges." by AACJC President Edmund J Gleazer, Jr . ${ }^{1}$ who served as project director, gives first hand ampressions thataned in interviews of more than 1.500 persons lotated in 30 institutions in 20 States Anothen booklet. A Repurt From Project Iones Stategles for Change. ${ }^{2}$ andy zed a!nd compared students. balckgrounds. feelings. and expectations with thuse of the faculty. It also discussed the assessment of the college presidents as to where the man emphasis should be placed during the 1-970's in the delivery of services, to the community. Another book, Organkemg for Change New Priorthes for Cummunty: Colleges, by David S. Bushnell. ${ }^{3}$ a member of the Project Focus team, gave valuable information on student, faculty, and institutional characteristics. The vocational roles were cumbined in five broad groups

Researcher or investugator
Teacher or therapist
Administrator or supervisor
Promoter or salesman of services or products
Pracutioner, performer. or producer of services or products
The voudtional fields consisted of 98 areas within' 9 majur fielys. detaled in appendix B. Must of the tables in this report use the major fields as a vanable.

## Education <br> Social science and religious <br> Busness. polticical. and persuasive <br> Scientific

Agriculture and forestry
The datd. in thus report are estımates derived from a samplen of $10,250^{\circ}$ stugent responses in 92 , anstitutions from an inithal sample of 12,022 fult-tume students, in 100 communty and jlanhere colleges. Because ot varying respunse rates to individual questionnare.items, the inflated numbers shown in the tables do not always add to the $1,130.000$ full-ume cummunity and jithor cullege enrollments estimated for the 48 contiguous. States (excludifig Alaska and Hawan) and the District of Columbis The sample design and weighting procedures are described in appendix $A$.

[^0]
## VOCATIONAL ROLES EXPECTED BY FULL-TIME COMMUNITY') AND JUNIOR COLLEGE STUDENTS

This section deals with the vocational roles expected by the students in terms of their sex, race or ethnic background, age, father's occupation, year in college, and timing of their vocational chore.

In fall 1970, an estimated 30 percent of the female full-time community college students planned to be teachers or therapists" (see table 1). Most of them apparently planned to become teachers, since approximately. 20 percent of all the female students expected to work in "the" area of education. Among the racial/ethnic groups, females showing the least inchnation to become teachers or therapists were Asian American and Améncan Indian (table 1) Asian American females had a relatively high proportion ( 13 percent) planning on the role of administrator or supervisor. A very high proportion (27 percent) of the American Indian females expected the vocational role of practutioner, performer, or producer of services or products.

For males, the hughest percentage ( 20 percent) expected to assume the role of practitioner, performer, or producer of services or products, for females, the second highest proportion, 19 percent The second highest for males was that of administratoc or ${ }^{\circ}$ supervisor. The highest ethnic representation for that role was the 22 perient in the male, Mexican/Spanish American group, followed in descending order ranging from 17 to 5 percent by the Caucasian males, Astan American malès and females, Blăck females, Amerıan Indian males, Cauuasian and Mexican/Spanish Amerıcan, femates, and Amerıcan Indian females
.By age group, 23 percent of the full-time students were 18 years of age or younger in fall 1970, 48 percent, 19 or 20,17 percent, 21 to 24 , and 12 percent, 25 or over. Both male and female students expectung to be administrators or supervisors formed higher pexeentages of the 25 -or-older group than of the younger groups (table 2). Some members of this oldest group probably at that time were employed as supervisors or "administrators. The same situation existed for the male students 25 and over expecting to become promoters or salesmen of services or products.

The vocational rotes expected by the students are related to their fathers' occupations tin table 3 . It is noteworthy that the students with fathers in unskilled occupations had the highest propurtión (18 percent) expection the role of practitioner, performer, or producer of services or products Students whose fer fathers were salesmen neclined toward becoming promoters or salesmen of serviges or products more than in the other parental occupation grolups.
4, Thale 4 dists the vocational roles expected by first-year and second-year full-time students. The percentage Uifferinto within the role groups may reflect changes in plans from the students' freshman to sophomore years. For ant stidents the largest differences were those in the expected role of teacher or therapist +18 and 23 perente. therapistudan werce first and second year respectively, 12 and 15 percent, females, 26 percent and 35 percent. The per 民िn aped differences just noted for the administrator or supervisor rule was acwounted for targely by the make stidentrs, for thom the percentages were 14 and 20 percent. The percentage of "undecided" students was substantially. less, at 12 percent, in the second year than in the first for both males and females. Tables 5-A and $5 \cdot \mathrm{~B}$ Show the period durng which the students made their chores of expected vocational roles. Overall, the laggest nuriber of students of both sexes chose their expected roles during high school. Exceptions were that more. males expecting to become admunstrators or supervisors made their chorces as college freshmen and that females expectung to become researchers of,investigators made their choices about equally as high school students and college freshmen.

The Project Focus questionnare asked students what income, excluding that of, therr spouses, they expected to have 10 years after graduation. Although the data ate not shown here, the females generally expected luwer incomes than males in the same vocational role category. Both sexes expected the same income range only in the role of administrator or supervisor.

## EXPECTED VOCATIONS OF FULL-TIME COMMUNITY. and Junior college students

The full-time community college students in the sample were asked to 1 dentify their expected vocations (listed at the beginning" of appendıx B) in nine broad categones. These nine categones are also shown as "expected vocational fields" in tables 6 through 10-B. Percentage distributions of students among these fields are showh below.

| Expected vocattonal fields | Percent |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total |  | Male | Female |  |  |
| Total |  | 100.0 |  | 56.5 |  | 43.5 |  |
| Business, ${ }^{\text {a }}$ ¢ ${ }^{\text {litical, and persuasive }}$ |  | 19.7 |  | 12.7 |  | . 7.0 | * |
| Education. |  | 14.3 |  | 5.3 |  | 9.0 |  |
| - Health |  | 10.2 |  | 2.7 |  | 7.5 |  |
| , Social science and religious . . . . . . . . | $\cdots$ | 6.2 |  | 3.0 |  | . 3.2 |  |
| - Arts and humanities |  | 5.5 |  | 3.4 |  | 2.1 |  |
| Trade, industrial, and technical |  | 4.9 |  | 4.60 |  | 0.3 |  |
| Engineering |  | 4.0 |  | - $3.9{ }^{\circ}$ |  | 0.1 |  |
| . Agriculture a and forestry |  | 2.5 |  |  |  | 0.5 . |  |
| Science |  | 2.1 |  | 1.5 |  | 0.6 |  |
| Other fields, housewife, and undecided |  | 30.9 |  | :17.6 |  | 13.3 |  |

The individual components of these fields are listed in appendix B.
Some of the most significant individual fields of full-time studehts are shown.mn tables 11 and $11-\mathrm{A}$, with, 'respectively, the numbers and percent distributions of students categorized by age, race, and sex: Jable 11 shows the large numbers of female students expecting to go into nursing, elementary education, and secretarial science. The largest numbers of male students expected to enter the individual fields of law, business administration, and accounting. Males also had large representation in the majoffields of education, business, political, and persuasive (these include the individual fields above); engineering; and rade, industrial, and technical.

Table 8 shows expected vocational fields of full-time 'students by their fathers' accupations. Students whose fathers were farm owners or stmall businessmen had the highest within-grqup percentage of students chuosang agriculture and forestry fields. For students choosing the health fields, lowestiwas the percentage of those whose fathers were salesmen. For those who expected to work in the trade, industrial, and technical fields, children of skilled tradesmen represented the largest percentage. The dargest numbers of students in specific vocational fields, with the fathers' occupations, were estimated as:

| Vocational field | Father's occupation | Number |
| :---: | :---: | :---: |
| Education <br> Business, political, and persuasive | Semiskilled | 26,000 |
|  | Manager or executive | 24,100 |
|  | Semiskilled | 34,900. |
|  | Skilled | 33,000 |
|  | Managet or executive | 32,300 |

Also included are , tabulations of expected fields by vocational role in the fietu (table 6), by race or ethnic background and sex (table 7), by the tuming of vocational choice (tables 9-A and 9-B), and by size of the student's hometown community.during high school (tables. 10.A'and 10-B).

Table 1.-Numbér and percent of full-time community and junior college students, by race or ethnic background and sex and by expected vocational role: 48 States and D.C., fall 1970

| Expected vocational role | 'Black |  | American Indian |  | Caucasian |  | Mexican/ Spanısh American |  | Astan American |  | Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| , . ' | M | F | M | F | M | F | M | F | M | F* | M | F |
| Total: weighted number, in thousands ${ }^{\text {a }}$ | 131 | 80 | 16 | 22. | 353 | 301 | 28 | 15 | - 8 | 5 | 26. | 17. |
| - Percent | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | $100^{*}$ | 100 |
| Researcher or investigator | 8 | 4 | 10 | 8 | 9 | $3{ }^{\prime}$ | 11 | 2 | 13 | $2{ }^{*}$ | 8 | 5 |
| Teacher or therapist | 15 | 26 | 7. | 18 | 13 | 32 | 14 | 21 | 12 | 18 | 8 | 19. |
| Administrator or supervisor'. . . $\because$ - | 14 | 10 | $\bigcirc$ | 5 | 17. | 7 | 22. | 7 | 13 | 13 | 21 | 6 |
| Promoter or salesman of services or: products | 6 | 2 | 2 | 6 | 5 | 2 | 5 | 3 | 11. | 8 | 5 | 1 - |
| Practitioner, performer or producer of services or products | 16 | 16 | 10 | 27 | 22 | 19 | 19 | 17 | 13 | 16 | 26 | 23 |
| None of thẹ above $\therefore .$. | 19 | 20 | 45 | 21 | 13 | 16 | 10. | 29 | 12 | 25 | 12 | 22 |
| Two or more roles | 4 | 4 | 7 | 1 | 7 | 5 | 5 | 5 | 6 | 4 | $\cdots$ | 4 |
| , Undecided . . . $\quad$. ${ }^{\text {a }}$, | 18 | 18 | 10 | 14 | 15 | 15 | 15 | 16 | 21 | 15 | 14 | 20 |

NOTE.-Details may not add to totals because of rounding.


Table, $2-$ Number and percent of full-time community and junior college students, by age and sex and by expected vocational role. 48 States and D.C., fall 1970


NOTE.--Details may not add to totals because of founding.

Table 3.-Number and percent of full-tıme community and junior college students, by father's occupation and by expected vocational role: 48 States and D.C., fall 1970

|  |  |  |  |  | ther's o | ccupatio |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - Expected vocational role | Manageral or executive | Professional | Sales | Semiprofessional or technica! | Semiskilled | Skulled trades | Small business or farm owner | Supervisor or public official | Unskilled |
| Total: |  |  |  |  |  |  |  |  |  |
| Weighted number, in thousands | 141 | 68 | 54 | 53 | 138 | 134 | 128 | 83 | 75 |
| Percent . . . . . . ; ... | 100 | 100 | 100 | . 100 | 100 | 100 | 100 | 100 | 100 |
| Researcher or investugator | * 8 | 10 | 8 | 10 | 5 | 8 | 7 | 8 | $0^{8}$ |
| Teacher or therapist . . . | 24 | 25 | 25 | 27 | 26 | 20 | 20 | 28 | 24 |
| Administrator or supervisor | 15 | 12 | 11 | 13. | 16 | 15 | 15 | 17 | 18 |
| Promoter or salesman of services or products $\qquad$ | 1 6 | 4 | 7 | 4 | 5 | 3 | 6 | * 3 | 4 |
| Practutioner, performer, or producer of services or products . . . . . | 26 | 24 | 24 | 22 | $\cdots 24$ | $27^{*}$ | 28 | * 21 | 18 |
| None of the rbove . | 15 | 17 | 18 | 19 | 20 | 20 | 20 | 16 | 23 |
| Two or more roles |  | 8 | 6 | 6 | 5 | 6 | 6 | 7 | 5 |
| NOTE. - Detais may not add to totals because of rounding. |  |  |  |  |  |  |  |  |  |

Table 4.-Number and-percent of first-year añd secund-year full-tıme community and junor college students, $\because \quad . \quad$ by sex and by expected vocational role: 48 States and D.C., fall 1970


NOTE.-Detals may not add to totals because of rounding.

Table 5-A Number and percent of male full-time community and jumior college students, by timing of vocational chorce and by expected vocational role: 48 States and D.C., fall $1970^{\circ}$

| Expected. vocational role | Undecided | Chorce made before high school | Choice madẹ during high school | Freshman year in college | Sophomore yegr in college | Junior year ${ }^{1}$ in college . or latér |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total: |  |  |  |  |  |  |
| Weighted number, in thousands | 45 | 36 | 205 | $\cdot 175$ | - 41 | 8 |
| Percent . . . . . . . . . $/$. | 100 | 100 | 100 | 100 | 100 | 100 |
| Researcher or investigator . .-. | 9 | 13. | *11 | 9 | 112 | 9 |
| Teacher or therapist | . 14 | 13 | '14 | - 17 | 21 | 15 |
| Administrator or supervisor:. | - 17 | 10 | 18 | - 24 | 18 | 25 : |
| Promoter or salesman of services or products | - 10 | - 3 | 7 | - 6 | - 6 | 9 |
| Practitioner, performer, or producer of services or products | 18 | $35$ | 27 / | 21 | , 23 | 21 |
| None of the above | 24. | 21 | 17 | - 15 | 14 | 16 |
| Two or more roles | 8 | 5 | 5 | 8 | 6 | 5 |

${ }^{1}$ Some students trapsfer to communty colleges from 4 -year institutions:
NOTE. - Detalls may not add to totals because of rounding.

Table 5-B Number and percent of female full-time community and junior college students, by tuming of vocational choice and by expected vocational role: 48 States and D.C., fall 1970

| $\therefore \quad$ Expected vocational role | Undecided | Choice made beforre high school | Cholce made during , high school | Freshman year in college | Sophomore year in college | Junior year ${ }^{1}$ in college or later |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total: <br> Weighted number, in thousands Percent | $\begin{array}{r} 26 \\ 400 \end{array}$ | 43 100 | $\begin{aligned} & 181 \\ & 100 \end{aligned}$ | $\begin{aligned} & 106 \\ & 100 \end{aligned}$ | $\begin{array}{r} 25 \\ 100 \end{array}$ | $\begin{array}{r} 11 \\ 100 \end{array}$ |
| Researcher or investigator | 5 | 2 | 3 | 5 | 10 | 1 |
| Teacher or therapist | 31 | 45 | 31 | 39 | 38 | 34 |
| Administrator or supervisor | 10 | 8 | 10 | 9 | 7 | 8 |
| Promoter or salesman of services or products | 3 | (*) ${ }^{*}$ |  | - 2 | 1 | 5 |
| Practitioner, performer, or producer of servicas or products | 18 | 23 | 24 - | 18 | 16 | 28 |
| None of the above | - 28 | 15 | 24 | 18 | 16 | 28 |
| Two or more roles ${ }^{\text {a }}$ | 4 | 6 | 5 | $\cdots 4$ | - $2^{8}$ | 5 |

[^1]Table 6. - Number and percent of full-tible cummunty and junior college students, by expected vocational role in expected vócational field: 48 Statess and D.C., fall 1970

*Percent greater than zero but less than 0.5.
NOTE. 2 Detauls may not add to totals because of rounding.
$\mathbb{L}$
Table 7.-Number and percent of flal-time community and junior college students, by race or ethnic background and sex and by expected wocational field: 48 States and D.C., fall 1970

| Expected vocational field | Black |  | gmerican Indian.. |  | Caucasan |  | Mexicar// Spanish American |  | Asian Americarf |  | No response |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | M | $E$ | M | F | M ${ }^{\text {¢ }}$ | F | M | F |  |  | M | F |
| Total: weighted number, in thousands .: | 135 | 84 | 9 | 7 | 359 | 309 | 29 | 17 | 8 | 16 | 27 | 19 |
| Percent . . . . . . . . . . . . . . | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Education | $9{ }^{\circ}$ | 18 | . 5 | 15 | 10 | 23 |  | 16 | 10 | 16 | 8 |  |
| Soctal science and religious | 8 | 7 | 7 | 8 | 5 | 8 |  | - 8 | 2 | $13^{6}$ | 1 | 5 |
| Business, political, and persuasive | 18 | 15 | 25 | $21^{\circ}$ | 25 | - 17 | 20 | 17 | 23 | 20 | 24 | 18 |
| Scientific | 2 | 1 | $\cdots$ | 3 | 3 | 2 |  |  | 4. | 2 | 3 |  |
| Agriculture and forestry | 3 | (*) | 2 | - | 4 | (*) |  | -1. | 6 | - | 4 | 1 |
| Health | 4 | 16 | 4 | 14 | 6 | 16 | 6 | 16 | 4 | 14 | 4 | 22 |
| Arts and Humanities | 5 | 5 | 2 | 7 | 6 | 5 | 6 | 8 | 4 | 2 | 7 | . 4 |
| Englneering | 7 | $\left.{ }^{*}\right)^{*}$ | 7 | - | 6 | (*) | 13 | - | 6 | 2 | 6 | - |
| Trade, industrial, and techntical | 8 | (*) | 8 | - | 9 | 1 | 8 | 1 | 1 | 2 | 3 | - |
| Not included in fields listed above | 8 | 7 | 10 | 7 | 9 | 7 | 6 |  | 7 | 2 | 11 | 10 |
| Housewife | (*) | 3 | - | 4. | (*) | 4 | -. | 5 | - | 9 | 1 | 3 |
| Undecided ${ }^{\prime}$ | 27 | 29 | $31 *$ | 21 | 19 | - 18 | 20 | 19 | 35 | 18 | 30 | 25 |

## -Indicater no report in sample.

7

* Peícent greater than zero but less than 0.5 .

NOTE. - Details may not add to totals because of rounding.

Table 8. - Number and percent of full-time communty and junior college students, by father's occupation and by expected vocational field: 48 States and D.C., fall 1970

|  | Father's occupation |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Expected vocafional fieild | Managertal or executive | Professional | Semiprofessional or têchnical | Supervisor or public official | Small business or farm owner | Sales | Skilled <br> trades | Semi- <br> skilled | Unskilled |
| Total: | 1 |  | - ${ }^{\circ}$ | $\therefore$ | - |  | - |  | - |
| Weighted number, in thousands | 173 | 83. | 63 | 102 | $154 \rightarrow$ | ) 68 | 168 | 168 | 96 |
| Percent ..... | 100 | 100 | 100 | 100 | 100 | $\bigcirc 100$ | 100 | 100 | 100 |
| Education | 14 | 17 | 18 | 15 | 13 | 15 | 12 | 15 | -13 |
| Social science and religious | $\cdot 6$ | 4 | 7 | ¢ 7 | - 6 | 6 | - 7 | 6 | 6 |
| Buşnes\%, political, and persuasive | 19 | - 19 | 16 | 22 | 21 | 21 | 20 | 21 | 19 |
| Scientific | 3 | 3 | 4 | . 2 | - $\quad 1$ | 2 | 2 | 2 | 1 |
| Agriculture and forestry | 2 | 2 | 2 | 2 | 5 | 1 | 2 | 1 | 1 |
| Health . . . . : | 10 | 11 | 10 | - 9 | $\cdot 12$ | 7 | 10 | 10 | 11 r |
| ALas and humanities | 7 | 7 | 5 | 5 | . 4 | 7 |  | 6 | 4 |
| Engineering | 4 | ${ }^{4}$ | 5 | 4 | 4 | 5 | 4 | 3 | 4 |
| Trade, industrial, and technical | 3 | 4 | 3 • | $6^{6}$ | 6 | 3 | 7 | 5 | 5 |
| Not included in fields listed above | 9 | 8 | 9 | 8. | 8 | 8 | 8 | 7 | 9 |
| Housewife ${ }_{\text {a }}$ : . . . . . . . . . . | . 2 | 2 | 1 | -2 | 1 | 1 | 1 | . 2 | 2 |
| Undecided $\cdots$, | 21 | 20 | 21 | 18 | 19 | 24 | 22 | 22 | 25 |

. NOPE. - Detals may not add.fo totals because.of rounding.

Table $9 \cdot \mathbf{A}$.-Number and percent of male full.time community and junior college students, by timing of vocational choice and by expected vocational field: 48 States and D.C., fall 1970

| Expected vocational field |  | Choice made before high school | Choice made <br> . during <br> *high school | Freshman year in coilege | Sophomor year in college | * | Junior ye in colleg or later |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total: |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Weighted number, in thousands | -98 | 40 | 236 | 199 | . 46 |  | 11 |  |
| Percent | 100 | 100 | 100** | 100 | 100 |  | 100 |  |
| Education . - | 2 | $6 \cdot \cdots$ | - 10 |  | 18 |  | 3 |  |
| Social sciẹnce and religious | 2 | 5 | ${ }^{4} 4$ | 8 | 7 |  | 5 |  |
| Business, political, and persuasive | 6 | 13 | . . 23 | 30 | 28 - |  | - 27 |  |
| Scientifiç | 2 | 3 | $3^{\prime}$ | 3 | 2 |  | , |  |
| Agriculture and forestry | 2 | 3 | 5 | 3 | 4 | - |  |  |
| Health | 1 | 9 | - 4 | 6 | 5 |  | - 7 |  |
| Arts and humanities | 2 | 13 | 7 | 6 | - 6 |  | 3 |  |
| ${ }^{\prime}$ Engineering ${ }^{\circ} \mathrm{r}$ | 2 | 15 | . 10 | 4 | 5 |  | -6. |  |
| Trade, industrial, and technical | 3 | -17 | 10 | 6 | 4 |  | H |  |
| Not included in fields listed above | 6 | 7 | 10 | - - 9 | 10 |  | 6 |  |
| Undecided | 71. | 9 | 14 | 13 | . 9 |  | 25 |  |

[^2]NOTE.-Detals may not ddd to totals because of rounding.

Table 9-B.-Number and percent of female full-time communty and junior college students, by timing of vocational choice and by expected vocational field: 48 States and D.C., fall 1970

| ${ }_{4} \mathrm{Ex}-\mathrm{ected}$ vocationàrield | Undecided | Chotce made before high school | Cholce made during high school | Freshmart, year.in collegé | Sophomore year in college | $\begin{aligned} & \text { Junior yeari } \\ & \text { in college } \\ & \text { or later } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 'Total: . |  | - |  |  |  | * |
| Weighted number, in thousands | 60 | 47 | 212 | 125 | 28 | 14 |
| Percent . . . . . . . . . . . . | 100 | 100 | - 100 | :100 | 100 | 100 |
| Educatior | 4 | 31.. | - 21 | 21 | 31 | 18 |
| Sócial science and religious | 4 | 3 | 5 | 11 | 19 | 23 |
| Business, political, and persuasive . | 3 | 7 | 21 | 19 | 10 | 23 |
| Scientufic . . . ., . . : . . . . . . . | (*) | 2 | $0^{2}$ | 2 | 2 | - |
| Agriculture and forestry | - | (*) | - ${ }^{*}$ ) | ${ }^{*}{ }^{\text {\% }}$ | (*) | - |
| Health . ${ }^{\text {a }}$. . . . . $\%$. . | 2 | 28 | 20 | 15 | ${ }^{9}$ | 19 |
| Arts and humanities | 3 | 8 | 5 | . 4 | 6 | 5 |
| Engıneerıng . . . | - | - | (*) | 1 | * | - ${ }^{2}$ |
| Trade, industrial, and technical . . | - | (*) | 1 | 9 |  | 7. |
| Not included in fields lusted above . | 4 | 8. | 8 |  | 5. | 7 |
| Housewife . . . . . . . . . . . | 5 | 2 | 4 | 4 | ${ }^{3}$ | 2 |
| Undecided | 74 | 9 | 13 | 13 | 14 | 20 |

${ }^{1}$ Some students transfer to community colleges from 4-year institutions.
-Indicates no seport in sample.
*Percent greater than zero but less than 0.5 .
NOTE.-Details may not add to totals because of rounding.

Table 10-A.-Number and percent of male full-tıme community and junior college students, by size of hometown communty during high school and by expected vocational field: 48 States and D.C., fall 1970

| Expected vocational field |  | Farm or open country, | $\begin{aligned} & \text { Town or } \\ & \text { city } \\ & \text { less than } \\ & 10,000 \end{aligned}$ | $\begin{gathered} \text { Town or } \\ \text { city } \\ 10,000- \\ 49,999 \end{gathered}$ | $\begin{gathered} \text { Mraro. } \\ \text { area } \\ 50,000 \text { - } \\ 249,999 \end{gathered}$ | $\begin{gathered} \text { Metro. } \\ \text { area } \\ 250,000- \\ 499,999 \end{gathered}$ | $\begin{gathered} \text { Metry } \\ \text { àrea } \\ 500,000- \\ 999, \overline{999} \end{gathered}$ | Metro. area over . 1 mulion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total. |  | $\bigcirc$ |  |  |  |  |  |  |
| - Weighted number, in thousands |  | 52 | 157 | 143 | 118 | 36 | 57 100 | 65 |
| Percent . . . . . . . . . . . . . |  | 100. | 100 | 100 | 100 | 100 | 100 | 100 |
| Education |  | 8 | $-10$ | 8 | - 10 | 9 | 12 |  |
| Social science and religrous |  | 4 | - 5 | 6 | 4 | 8 | 4. |  |
| Business, political, and persuasive |  | 16 | - 21 | 23 | 24 | 22 | 23 | 6 |
| Scientific |  | 3 | 3 | 2 | 3. | - 1. | - 3 . | 3 |
| Agriculture and forestry |  | 10 | 4 | 4 | 2 | 2 : | 3 | $L$ |
| Health |  | 4 | 4 * | 5 | 4 | 6 | - 5 | $\therefore 5$ |
| Arts and humanitues |  | 3 | 4 | 5 | 8 | 8 | 9 | 7 |
| Engineering . . . |  | 9 | 5 | 7 | 6 | 6 -8 | 8 | 9. |
| Trade, industrıal, and technical |  | 11 | 10 | 8 | 8 | - 8 | 5 | 6 |
| Not included in fields listed above |  | 10 | 10 | 8 | 8 | 10 | 3 | 19 |
| Undecided . |  | 22 | 22 | 23 | 22 | 20 | 23 | 19 |

NOTE.-Details may not add to totals because of rounding.

Table 10-B.-Number and percent of female full-time community and junior college students, by size of hometown:community during high school and by expected vocational field: 48 States and D.C.,fât 1970


Table 11.-Number of furl-time community and junior college students, by age, race, and sex and by sefected vocational field: 48 States and D.C., fall 1970
(Numbers of students in thousands)

| - Selected vocational field | Age |  |  |  | Racé |  |  | . | Sex |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\text { . } 18 \text { or }$ | 19-20 | 21-24 | $\begin{aligned} & 1 \\ & 25 \text { or } \\ & \text { over } \end{aligned}$ | Black | Caucasian | Mexican/ <br> -Spanish American | Other |  | Female |
| Total | 255 | 540 | 190 | 140 | 219. | 667 | 46 | - 77 | 630 | 490 |
| Education |  |  |  |  |  |  |  |  |  |  |
| - Elementary education | 15 | 27 | 4 | i. 6 | 8 | - 37 | 2 | 2 | 6 | 46 |
| Secondary education | 10 | 25 | 7 | ! i4 | 7 | 32 | 1 | z' | 24 | 21 |
| Education, other areas | 11 | 35 | 8 | $\because 9$ | $;^{12}$ | $38 \cdot$ | 3 | 3 | 29 | 33 |
| Social science and religious: |  |  |  |  |  |  |  |  |  |  |
| Psychology | 4 | 7 | 3 | 2 | 4 | 9 | 1 | (*) | 9 | 7 |
| Social work | 4 | 10 | 6 | 3 | - 5 | 14 | 2 | 1 | 8 | 15 |
| Social science and religious, other areas | 7 | 14 | 5 | $\bigcirc 5$ | 7 | 18 | 4 | 2 | 16 | 14 |
|  |  |  |  |  |  |  |  |  |  |  |
| Accounting . . . . . . . . . . | 7 | 14 | 8 | 6 | 5 | 21 | 2 | 2 | 25 | 9 |
| Business administration (4 years) | 5 | 13 | 8 | 7 | 5 | 20 | 1 | 3 | 28 | 4 |
| Data processing . . . . . . . . | 5 | 8 | 4 | -3' | 2 | 14 | 1 | 2 | 14 | 6 |
| Law . . . . . . . | 8 | 16 | 7 | 4 | 6 | - 22 | 2 | 3 | 32 | 3 |
| Secretarial science | 11. | - 26 | 2 | 21 | 7 | $\cdots 25$ | 1 | 3. | (*) | 41 |
| Busuness, political, and persuasive, other areas | 12 | $\text { - } 28$ | 13 | - -7 | 12 | $\therefore 38$. | 2 | 4 | 42 | 18 |
| - Scientific fields, total . . . . . . . . . . . . . | . 6 | -11 | 5 | A: | . 4 | $\cdots$. 15 | 1 | 2 | 17 | 8 |
| Agriculture and forestry, total | 6 | 13 | 4 | I | 4 | 15 | - ${ }^{(*)}$ | 2 | 23 | 1 |
| Health: |  |  |  | 1 |  |  |  |  |  |  |
| Nursing . . | $13^{\circ}$ | 23 | 9 | 13 | 9 | 33 | ${ }^{1}$ | 4 |  |  |
| - Health, other areas | 15 | 28 | 9 | 5 | $=10$ | 35 | 3 3 | 4 | Q- $\begin{array}{r}\text { 9 }\end{array}$ |  |
| Arts and-humanities, total | -13. | -35 | 8 | . 6 | - 11 | 37 | 3. | 4 |  | - 24 |
| Engineering fields, total . | 9 | 21 | 10 | 4 | 10 | 22 | 4. | 3 | 43 | 1. |
| Trade, industrial, and technical, total | 9 | 24 | . 12 | 10 | 11 | 35 | 2 | 2 | 52 | 3. |
| Not included in fields listed above . . | 25 | 42 | 15. | 9 | 17 | 52 |  | 7. | 56 | 35 |
| Housewife . | 4 | . 10 | 3 | 2 | . 3 | 12 | 1 | 2 | - | 18. |
| Undecided | 57 | 113 | 40 | 31 | 60 | . 124 |  | 21 | 140 | 101. |

*Less than 500.
NOTE. - Details may not add to totals because of rounding.

Table 11.A.- Percent of full-time communuy and junior college students, by age, race, and sex and by selected vocational field: 48 States and D.C., fall 1970


## Appendix A

## SAMPLING PROCEDURE

The data in thus report were obtaned from questomalres admmatered during Project Focus to a random sample of students at a stratufied random sample of mstitutions. This appendix provides description of the sampling plan and the datafeollection procedures used in , the study.

## SAMPLE SELECTION PROCEDURE

A two-stage sampling design was used. The first stage provided a stratified random sample of community and junior colleges, the second. a random selection of respondents withon the selected institutions Various kinds of weights (to be explaned later) were required to make appropilate estumates of pupulation parameters from the data obtaned in the survey sample.

## UNIVERSE OF COMMUNITY AND JUNIOR COLLEGES

The universe in this study was the list of commurfty and juniur colleges appeaning in the 1970 Junor College Directory. published by the American Assuciation of Community and Junior Colleges (AACJC) For logistical reasons, only colleges in the contguous Dnited States were considered-excluding colleges from Alaska. Hawant. Puerto Rico. etc. Although the AACJC Iist includes 2 -year branch campuses of 4 -year institutions. those 2 -year campuses that dad not function as community colleges and in reality were integral parts of their parent institutrons were also excluded from the universe. Thus. fifty-six 2 -year campuses from the States of Ohro, Pennsylvania, South Carolina. and Wisconsin were eliminated from the universe. After adopung these two reservations, 956 community and junior colleges remained in the universe to be sampled 721 public, 107 !ndependent (nonprofit), and 128 church-related instututions. .

## - SAMPLE STRATIFICATION

- Figure A.l shows how the unive communty and junior colleges was stratfied according to con frol, geographic area, and enrollment stze. The universé was separated aciording to public, church-related, er independent control. The latter twis were not broken down further. but the publicly controlled colleges were classified into six geographic regions "(table A•t).

In general. the regions were selected so that (1) no single State dominated a region in number of colleges (for this reason. Californa was made a separate region). (2人 the cofleges were farrly evenly distributed among the regions (see table A.2), and (3) the regions encompassed geographically, economically, and culturally simiar areas, i.e.. the regions were similar to those generally used by cconomists. sociologists. etc. (See, for example, the analysis conducted by J. M. Richards. Jr.. L. P. Rand, and L M. Rand* on the regional differences in community and junior çolleges.)

Within each region. the colleges were classified according to enrollment-size category The completed stratification resulted in 32 ceill for sampling purposes. (See table A.?.2.

## SAMPLE SELECTION OF INSTITUTIONS

- The actual college sample used was arrived at through a series of steps An initual 10 -percent sample of each cell was decided upon. The colleges within each cell were arranged alphabetically and numbered in sequence

[^3]

Figure A-1.-Project Focus Sample Stratification.

Utilizing a random table, the sample colleges within each cell were randomly picked as their number appeared on the table until a 10 -percent ceiling was reached for the respective cells. No cell was left at zero; each cell had to have at, least one entry. Consequently, because of rounding, the overall percentage was sightly higher than 10 percent. The size of this initial sample was 100 institutions.

A letter with an accompanying post card was mailed to the presidents of the 100 institutions, requesting participation in Project Focus. Twenty-one of these institutions replied in the negative. As soon as a turndown was received, the institution was replaced with another chosen randomly from the initial cell. The turndowns were well distributed geographically, as table A-4 demonstrates. Three institutions failed to advise the Project Focus staff before the cutoff date of their inability to participate and therefore were not replaced.

Because of the rather severe time limitations of Project Focus, a 2 -months' deadline for obtaining replacements was set By this time, 92 institutions (see table A-3) had agreed to participate. They constituted the final sample.

The coordinators were permitted to administer the questionnaire in any one of three ways. (1) using the class time of randomly chosen classes or classes that were required of all students, (2) bringing together the students in special scheduled group sessions, or (3) distributing the questionnaires by mad. Option 1 proved to be the most popular method.

Table A•1.-Project Focus regiopal breakdown


## STUDENT SAMPLE SELECTION

The college presidents who agreed to participate in Project Focus were asked to appoint a member of their staff to coordinate the Project Focus activities with their respective institutions. The campus coordinators were first informed orally and then in writing as to the sample selection procedures and administration of the questionnaires

Table A-2.-Numbers of and enrollments in publiç community and junior collegeg in the United States, by region and enrollment size: Fall 1970
(Enrollments in thousards)

| $\begin{aligned} & \text { Enrollment } \\ & \text { size } \\ & \text { category } \end{aligned}$ | United States |  | Region: |  | Region II |  | Region III |  | Regron IV |  | Region V |  | Regron VI |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Institutions | Enrollments | Institutions | Enróllments | Institutions | Enrollments | Institutions | Entollments | Instituthons | Enrollments | Institutions | Enrollments | Instituthons | Enrollments |
| Total | 721 | 1,978.1 | 100 | 288.1 | 174 | 285.3 | 143 | 339.9 | 61 | 152.5 | 152 | 254.5 | 91 | 657.8 |
| 0-499 | $108{ }^{\text {- }}$ | 37.6 | 5 | 1.7 | 43 | 13.3 | 22 | 7.5 | 10 | 4.3 | 26 | 10.0 | 2 | 0.8 |
| 500-999 | 151 | 113.3 | 11 | 8.8 | 47 | 35.2 | 36 | 26.8 | 8 | 5.7 | 47 | 35.4 | 2 | 1.4 |
| 1,000-1,999. . | 181 | 256.9 | 35 | 52.3 | 51 | 674 | 22 | . 32.2 | 17 | 24.7 | $45^{2}$ | 65.0 | 11 | 15.3 |
| 2,000-4,999 . | 170 | 546.4 | 35 | 113.4 | 21 | 64.1 | 45 | 140.2 | 20 | 64.2 | 25 | - 76.5 | 24 | 88.0 |
| 5,000 or more. | 111 | 1,023.9 | 14 | 111.9 | 12 | 105.3 | - 18 | 133.2 | 6 | 53.6 | 9 | 67.6 | 52 | 552.3 |

Table A-3.- Numbers of public and private community and junior colleges in despred (D) and actual (A) Project Focus sample, by rogion and enrollment size


Private colieges


One of the campus.coordinator's tasks was to select a student sample and then to administer the student questionnare to this sample. Coordrnators were instructed to use the following formula for determining the number of students to be chosen for participation in this study:

If you haye fewer than 1,000 full-time students, survey 100 (if ftwer than 100 students, suivey all).
If you have' 1,000 to 9,999 full.time students, survey 10 percent.
If you have $0,000 \%$ more full-ume students, survey 5 percent.
Although the stratufication of the mistitutions was based upon full- and part-ume enrollment, themumber of students chosen for the sample was to be based on the number of full-time students (not the full-time-equivalent figure commonly used at community and jumor colleges) enrolled during the term in which the assessment was to occur. Each college was allowed to define "full:time student" in its own way.

Although several procedures for sampling the students were outhned, the only prerequisite was that the students be randomly chosen. It was also tecommended to the campus coordnaturs that the ratio of freshmen to sophomores at their respective instututions be "reflected in their samples.

## WEIGHTING PROCEDURES

When performung sample surueys. jueights are often requred to make approprate estımates of population parameters' from the data oftained, in the survey, sample. Because of the rapidly changing composition of the

Table A.4.-Distribution of turndowns, by region and institutional status

| , | Regions. |  |  |  |  |  |  |  | Church related | Independent | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | I | II | III | IV |  | V |  | VI |  |  |  |
| Numbetrof refusals | 2 | 3 | 3 | 3 | - | 2 | + | 2 | 3 | 3 | 21 |
| Number in sample | 9 | 15 | 14 | 6 |  | 17 |  | 9 | 13 | 9 | - $92{ }^{\circ}$ |

pupulation and the slightly less than 100 -percent response rate to the questionnaires, the application of weights $^{\circ}$ became a necessity. The weighting scheme utilized was developed in the Cooperative Institutional Research Program of the American Councll on Education.*

Three types of weights, enumerated in Cieager's paper. were utlized. These weights can best be illustrated by the following hypothetical example. First, let us assime that the following ground rules apply,
(1) The pupulation is divided into two strata only, with one stratum consisting of four institutions and the othe of six institutions.
(2) Only two institutions will be sadmpled in each stratum.
(3) The number of students at each instutution is given in the following table-

| Stratum 1 |  | Stratum 2 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| a: 25 | b: 50 | e: 50 | f: 100 | g: 100 |
| c. 100 | d 125 | h-100 | 1:25 | j: 45 |

The four underlined institutions ( $a, b, f$, and $h$ ) are the ones sampled.
(4) The institutions are referred to as the primary sampling units (p.s.u.'s) and the students as the secondary sampling units (s.s.u.'s).
(5) The participation rates or ratios in the four selected s.s.u.'s are-a: 20/25, b: 30/50. f: 65/100, and h : 85:100.

The weights utilized throughout the study were arrived at in the following way:
Type I weights-A type I (or institutional cell) weight is utilized to insure that each stratug of the population is adequately represented by the sample. Weight is computed for each cell as the rafor of the şum of within-institution data units across the population institutions in that cell to the sum of the withun-institution data across the sample institutions in that cell. In the hy pothetical example, the within-institution data units are students. Thus, the ratios of the pupulation data units to , the within-mintitution data units for the two strata, or cells, are:

$$
\begin{array}{ll}
\text { Stratum 1: } & 300 / 75=A .0^{m} \\
\text { Stratum 2. } & 420 / 200=2.1
\end{array}
$$



These weights, of cuurse, are identical for all sampled institutions in a given stratification cell. Thus, type I weights are designed to correct for inadequate cell or stratum representation,

Type II weights-The type I weights are sufficient if the participation rates are $100^{\circ}$ percent. If they are less than 100 percent, type, $I$ weights are necessitated. They are similar to 1 weights, with the expeeption that individual institutions, rather than enture cells, are considered as strata. Type Il weights are simply the total number of s.s.u.'s perinstitution divided by the number of s.s.u.'s in that irstitution that were incifided in the sample. In the hypothetical example, the type H weights are.
a. $\quad$ a: $25 / 30$,

[^4]Note that these weights are merely-the inverses of the s.s.u. sampling fractions.
Whereas type I weights adjusted for"inadequate cell or stratum representation, type II'weights'correct for random deviation from 100 -percent participation of data units within an institution.

Type III Weights-The third type of weights are, merely the products of type I and II weights. Thus, a. 4.0 (1.25), b: 4.0 (1.67), c: 2.1 (1.54), and $\mathrm{h}: 2.1$ (1.18). These weights are normally applied to subsequent processing of data records developed from the within-institution sampling units. Type III weights were applied to the student records in order to make appropriate estimates of population parameters.

## DATA-COLLECTION PROCEDURES

The student survey instruments were mailed to the sample institutions by the American College Testing Program in Iowà City shortly after March 26, 1971. (Throughout the study, ACT provided assistance in regard to questionnaire design and development, survey instiument distribution and collection, and data computerization and analysis.) The student questionnaires were sent directly to the campus coordinators (with the responsibility to administer and return the student questionnaires) for distribution to the student sample. Followup calls were made to nonresponding coordinators, urging them to return the questionnaires promptly. The final cutoff date for mailing in all questionnaires was July 30, 1971.

The Project Focus staff arbitrarily decided in advance to include in the study only those sets of students in institutions with response rates higher than 75 percent. However, this criterion was modified to include a number of institutions, mainly larger ones, that otherwise would have been eliminated from the analysis or were needed for adequate representations in each cell. In these instances, the response rate could be no lower than 50 percent.' These institutions are_identified in table $\AA-5$ by an asterisk. .

A special questionnaire was sent to the campus coordinators after they had already administered the student questionnalres to determine the size of the student samples that they had chosen. In cases of no response to this questionnaire, a telephone call was made and the needed information obtained. This questionnaire also incorporated questions on sampling procedure and how they administered the questionnaire.
' From those institutions included in the final analysis, the total number of students sampled was 12,022 ; the total number of usable student questionnaires was 10,250 , yielding a response rate of 85.6 percent. Because of the acceptable response rate by students, no special study of nonrespondents was conducted.

Table A-5.-Project Focus student response to questionnaires:

..-Excluded from study due to no returns at all.
*Institutions, mainly large ones, included in the study with less than 75 percent response rate to allow adequate representation in each celr.


STEDENT QUESTIONNAIRE


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#  

TO THE STUDENT:


## Use No. 2 lead pench. Mark all answers on the separate answer sheet.

1 From the list on the left page. identify youk major field Mark the appropriate code number on your answer sheet (The top row of ovals is for the tens digit. and the bottoritiw is for the units digit ) Indicate only one field z If you are undecided. mark " 00 " on your answer sheet and go on to the next question

2 From the list on the left page. find the best description of your future vecation. and mark its code on your answer sheet. (The top row of ovals is for the tens digit, and the bottom row is for the units digit.) Again, if you are undecided about your future vocation, mark "00" on your answer sheet. If your future vocation is not included in these fields. mark " 98 " on your answer sheet:' or if you anticipate your future vocation to be exclusively that of housewife. mark "99" on your answer sheat and skip Question 3.
3. Which of the following alternatives describes the main role you expect to play in your furture vocation? (For example, if you want to be a physicist and work primarily as a researcher. you would mark " 1 ." if you want to be a doctor, who specializes in private practice. you would mark " 5 ." -An engıneerıng major who'plans to become a sales engineer should mark " 4 ." A teacher who wants to become a principal should mark " 3 " Añ art major who plans to become a professional artist should mark " 5 ," etc.)

Researcher or Investıgator . . . . 1
Teacher or thérapist . . . . 2
Administrator or supervisor .. 3
Promotor or salesman of services or products
Practitioner, performer, or producer of services or. products
None of the aboive. . . . . . 6
Two or more roles . . . . 7
Don't know or undecided 8


I have changed my major íwice since entering college:
(a) and I plan to contınue in my
present major .. .... 6
(b) but I will probably change my major again7

I have changed my major three or more times since entering college
(a) and I plan to continue in my present major8
(b) but I will probably change my major agaın ..... 9
6. When did you make your present choice of vocation?

At the present time. I am undecided about my vocation1
Before high school ..... 2
During.high school ..... 3
During my freshman year in college . ..... 4
During $m y$ sophomore year in colfege ..... 5
During my junior year in college ..... 6
\{ During my senior year in college ..... 7
After my senor year in-college ..... 8.
7. Where did you live when you applied for ad-mission to this college?
In the same state as this college and:
less than 10 miles from the college ..... 0
10.50 miles from the college. ..... 1
50.100 miles from the college ..... 2
more than 100 miles from the college 3
In a state adjoining this state and:less than 50 mileṣ from the college4
$50-100$ miles from the college ..... 5
more than 100 miles from the college .....
In a state not adjoining this state ..... 7
In a foreign country:
with an English language background ..... 8background9
8. How old aré you?
17 or under ..... 1
18 ..... 2
$19-20$ ..... 3
21-24 ..... 4
25-29 ..... 5
30-34 ..... 6
35-39 ..... 7
40.49 ..... 8
50 or over ..... 9
9. Marital or Dating Status:
Single and not going steady ..... 1
Going steady ..... 2
Engaged ..... 3
Marred with no children ..... 4
Married with chridren ..... 5
Separated ..... 6
Divorced ..... 7
Widowed ..... 8
Other ..... 9
10. Father's Occupation:
Managenal or executive (business executive, banker. store manager. etc.) ..... 1
Professional (doctor, lawyer. professor) ..... 2
Sales (auto salesman. department store clerk. etc.) ..... 3
Semiprofessional or technical (pro- grammer. lab technician. etc.) ..... 4
Semiskilled (máchine operator. con- struction worker, etc ) ..... 5
Skilled trades (electrician. carpenter, plumber, etc.) ..... 6
Small business owner or farm owner ..... 7
Supervisor or public official (office manager, policeman, etc.) ..... 8
Unskilled (genera! laborer, farm laborer, etc.) ..... 9
11. Father's Education:
Less thaneighth grade ..... 1
Eighth grade ..... 2
Some highischool ..... 3
High school graduate ..... 4
Technical or business, etc. ..... 5
Some college ..... 6
College graduate ..... 7
Some graduate or professiona! work ..... 8
Received in advanced degree ..... 9
12 Mother's Education
Less than eighth grade ..... 1
Eighth grade ..... 2
Some high school ..... 3
High school graduate ..... 4
Technical or business, etc. ..... 5
Some college ..... 6
College graduate ..... 7
Some graduàte or professional work ..... 8
Received àn advanced degree ..... 9
13 Which of the sources of funds listedtbelow
has been the most important in finéncingyour college wort?
Support from my parents or family ..... 1
Support from my spouse ..... 2
Employment or personal savings ..... 3
NDEA loan. bank loan. or other loan ..... 4
E'conomic Opportunity Grant or Work- Stucy program. ..... 5

- GI Bill. ROTC. veterans or social security benefits or governmental 'and ..... 6
Scholarship. fellowship. or grant ..... 7
Other ..... 8

18 How satisfied are you with this college as a whole?

| Marred |  | 1 |
| :--- | :--- | :--- |
| Both deceased |  | 2 |
| Father deceased |  |  |
| Mother deceased . |  | 3 |
| Séparated or divorced |  |  |

15 Which one of the following statements is true concerning the number of children in your family?

```
I was an only child
                1
I was the younger of
    2 shildren of the same sex
    2 children of the opposite sex
I was the youngest of 3 or more children
I was the older of
    2 children of the same sex 5
    2 children of the opposite sex 6
I was the oldest of 3 or more children 7
I was nerther the youngest nor the oldest
of
    3 or 4 children
    5 or more children
        8
        9
```

16 How adequate do you feel your high school. education was?

| - Excellent | $n$ | 1 |
| :--- | :--- | :--- |
| Good |  | 2 |
| Average |  | 3 |
| Belüw average |  | 4 |
| Very inadequate |  | 5 |

17 What income, (not including that of your spouse) do you expect to have 10 years after graduation?

None since I intend to be a housewife 1 Less than \$5.000 as a housewife work. ing part time 2 Less than $\$ 7.000$ (working full time) 3
$\$ 7.000 \cdot \$ 8.999$ - 4
$\$ 9.000 \cdot \$ 10.9995$
\$11.000 $\$ 14.999: \quad 6$
$\$ 15.000 \cdot \$ 24,999 \quad 7$
\$25.000 - \$49.999 $\quad 8$
over $\$ 50.000 \quad 9$

19. How well did you apply yourself in high school, and how well háve you applied yourself in college?
Less than average in both high school
and college
Less than average in high school, but

| average or more thãn average in |
| :--- |
| college |

An average amount in both high
school and college
More than average in high school, but.
average or less than average in
college

More than averagean both high school and college

20 How many ṭmes did you move or change schools through elementary school and high school) (Count the change from elementary to junior high or juntor high to high school only if you moved to a diferent
None
Once
$2 \cdots 3$ times
$4 \cdot 5$ times
6 or more times $\ldots$

21 From what kind of highí school or secondary school did you graduate?

| Public high school | 1 |
| :--- | :--- |
| Private, nonceligious. nonmilitary | 2 |
| Protestant denominational | 3 |
| Catholic | 4 |
| Other | 5 |

22 About how many students were in your highschool graduating class?
Fewer than 25 ..... 1
25-99 ..... 2
100-199 ..... 3
200-399 ..... 4
400-599 ..... 5
600 - 899 ..... 6
900 or more ..... 7
23 Which of the following best describes thecommunity that you thought of as yourhometown during high school days?
Farm or open country ..... 1
Town or city of:
less than 500 population ..... 2
501 - 1.999 ..... 3
2.000 - 9.999 ..... 4
10.000 - 49.999 ..... 5
Metropolitan area of:
50.000 - 249.999 population ..... 6
250.000 - 499.999 ..... 7
500.000 - 999.999 ..... 8
More than 1 million ..... 9
24 About how many hours per week have you usually worked at a part-time job while at- tending college? (Exclude summer work)
Zero ..... $\cdot 1$
1.5 ..... 2
6.14 ..... 3
$15 \cdot 24$ ..... 4
25 or more ..... 5
25 About how many hours outside of class perweek have you usually studied while attend-ing college?
0.3 ..... 1
4.6 ..... 2
7.9 ..... 3
$10 \cdot 12$ ..... 4
13-15 ..... 5
16.20 ..... 6
21.25 ..... 7
over 25 ..... 8

Essential la goal you feal you must accomplish)

1
Very important 2

- Desirable 'la goal of some impongnce. but lass vital than those rated 1 or 2) 3
Not important (a goal of litte or no im.
, portance)
4


## Be sure to respenci to overy question.

29 Toimprove my ability to think and reason
30 To broaden my intellecitual interests and my understanding of the world

31 To increase my appreciation of ant, music. literatüre. and other cultural expressions
32 To discover my vocational interests.
33 To atiain specific skills that will be useful on, a job
34 Tó meet the academic requirements neces̀. sary to enter a profession

35 To increase my effectiveness in interperson: al relatuons

36 To leprn how to be an effective leader
37 To become more çapabis and interesting socially
38 To learn how' to deal with pontical or social injustice
39 To develop mơre personal indejendence and self-relrange
40 -To find a causè of coutsés Than reatly be: heve in

A number of college policies, practices, or facititis are described in questions 41.58 below. Indicate your opinion of Efiest as they apply to your college by using the following code:

Asree
Partly agree and partly disagree Disagree
I have no opinion on the matter
. 41 . There is adequate provision for student pr. - vacy

42 The regulations governing student conduct are constructive

43 Rules governing the invitation of controvessial speakers are reasonable

44 The campus newspaper gives a balanced presentation to controversial events
45 Laboratory facilities for the physical烈ct. ences are adequate
46 Laboratory facilities for the brological sci. ences are adequate

47 The cultural prograrp llectures. concerts. exhibits. plays) is satisfactory in terms of quality and quantity,
48 Sufficient recreational opporiunities and facilities (bowling swimming etc) are avarable
49 Regulations governing academic probation and dismissal are sensible
50 Examinations are usually thorough and fair
51 Library materials are easily accessible
52 Instructors are generally available ior assis* tance with classwork"

53 Adequate provision is made for gifted students leg. homors program, independent study undergraduate research. etc )

54 Students have ample opoortunity to paricipate in college policy-making

55 The college social program (dances. parties. etc ) is successful
56 Housing regulations (living in apartments. off-campus rooms etc i are reasonable

57 Disciplinary procedures and policies are fair
58 College food services are adequate in terms of quality. cost and efficiency

Questions 59.67 refer to services which are frequenty provided by colleges. Describe your reaction to these services at your college by using the following code:

The service was extremely valuable
to me
I found the service to be worthwhite
I received litile benefit from the
service
'lve never used this service
'ur college does no: offer this service 5
$\vdots$.

59 Academic advising service lassistance in selecing courses. adjusting schedules planning programs. etc.l.

60 Counseling service lassistance in choosing a major vocational pianning, resolving personal problems. eic
61 Financial needs service lassistance in obtaining a scholarship loan, part time iob. or assisiance in budgeing and controlling ex. penses).
62 Exiracurricular activities assistance (in get, ing started in acivities or in making the most of exiracurncular opportunities)
63 Orientatinn service (assistance in gerzing started in college-learning the ropes getting acquainted. overcoming apprehensions).
64. Housing services (assistance in locating suitable housing)

65 Housing advisory services lassistance in dealing with roommate problems. advice in Handing everyday concerns, programs destgned to-make the housing arrargement more educational and enjoyable)

66 Healin service assistance in dealing with illness or injury)
67 Developmental education services limprovement of reading study skills. spelling. etc.)

Questions 68.79 below list some statements describing possible outcomes of a college education. Indicate the degree to which you feel your have made progress on each of shese outcomes by marking your somyer sheet in accordance with the following code:

- Substantial progress

Some progress
Not much progress
$+\frac{2}{3}$

68 Acquiring a broad culiural and hiterary education
69. Acquiring vocaiional training-skills and techniques direcily applicable io a job

70 Acquiring background and specialization for further education in some professional, scienific. or scholarly field.

71 Understanding different philosophies. culiures afd ways of lifa

72 Social development-gaining 'éxpenence and skill in relating to other people

73 Personal development-undersianding one's abilities and limitations. interests and standards of behavior
74 Knowing how to paricipate effectively as a citizen in one s community and in wrder areas

75 Developing an ability io write and to speak clearly correctly and effeciuvely

76 Developing an ability to think ciritucally and io undersiand the origin nature and limita. tions of knowledge

77 Developing an appreciation and an enjoyment of art music. and hiterature

78 Developing an understanding and an appreciation of science and rechnology

79 Improving prospects for making high income and gaining professional staius

## $\omega$

Questions 80-93 ask you to describe the instructors you have had at this college. Use the following scale to indicate how frequentty each statement is true:

A majority of my instructors $\quad 1$
About half of myinstructors 2 A minority of my instructors

3

80 Insiruciors give studenis ample opportunity to participate in discussion. to ask ques. tions. and to express points of view

- 8 decfures are dry. dull. and monotonous

82. Siudents are given an important voice in detexmining clasc objectures and procedures

83 Insiruciors appear io be uneasy and nervous

84 Faculty members have an unusual fachlity

* for communicating their knowledge to siudents

85 Insiructors crincize or embarrass students in the classioom

Instructors present material in an entertaining (e g dramatic humorous) manner
87 Instructors give disorganized. superficial or imprecise treatment to their materiz'

88 insiructors give personal opinions or describe personal experiences

89 Instructors don: seem to care wheiner or not class material is understood
$90^{\circ}$ Out-of-class assignments treading papers eic) are reasonable in engith
9. Insufficient distinction is made oeiween major ideas and ress mportan: deians
92 Insiructors relaie course materia io con temporary problems
93 Insiructors seem io be out of touch with siudent infe

Questions 94.123 refer $\boldsymbol{2}$ o your use of leisure time while you have been attending college. If, while atterding college, you have engaged in the activity ON YOUR OWN, i. e.. NOT AS A PART OF A CEASS ASSIGNMENT, mark the Y ("'Yes") response. If you cannot recall having participated in the activity while in college (except, perhaps, as part of an assignment), mark the $N$ ("No") response.
94 Atiempled to invent something *
95 Read some Doetry
96 Discussed meris of political-economic sysiems teg communism sociahsml with e frienús

97 Attended a scientific lecture $\stackrel{2}{2}$
98 Visited an art exhibrt
Discussed world or national political prob. lems (candidates issues) with friends.

100 Attended a scientific exhibit
101 Tried some sketching drawing orpaining
102 Watched four or more TV news specials in a year
103 Read a technical journaf or a scientific article

104 Attended a poêrry reading or a literary talk

105 Discussed social issues leg civil pights Dacificismi with frends

106 Altempted to solve mathematical puzzles
107 Attended a stage play
108 Discussed campus issues with frierns
109 Attemptedio develod a new scienific the. O',
110 Read six or more aricles a year ir Atlantic. Commonweal Harpers. and/cr Salurday Review

1i! Aitended a reciure or a curreni social eco nomic or politicai prooem
i:2 Discussed a scientific, ineory or event win friends
113 Discussed art or music with friends
114 Read ine ec.iurial column of a newspaper ai least once a week
195 Devised a mathema:ical puzzie
116 Discussed philosophy or re!igion with ${ }^{\prime}$ friends

117 Read an articie or book analyzing in depti a poinical or social issue

118 Regularly read popular accounts of scientific advances (in Time. Newsweek, eic)
119 Discussed plays novels of poetry with friends
i20 Read a biography or autoblography of a polivical or sociabreform leader
12i Explaned or illustrated a scientific principle to someone.

122 Atiended a music recital or concert Read a book on psychc!ogy sociology or history

Questions 124-223 also deal with experiences you may have had in coflege. They are grouped into ten lists of "wur-of-class" ac: complishments (Leadership, Social Participation, etc.): each list 'contains ten items which describe specific accomplishments or awards.

## A

For:each of the lists, read all ten items and then indicere which ones ate true of you by blackening the appropriate oval or ovals on. your answer sheot. If on a given list nomp of the ten ftems are true for you, blacken the "Rione" oval and co on to the next list.
Don't be discouraged by these statementa; only an uniqsual student will be able to say "Yes" to many items.

## LIST 1. LEADERSHIP

124 Elected to one or more student offices
125 Appointed to one or more student offices.
126 Was an active member of four or more stu-- dent groups.

127 Elected president of class (freshman. sophomore. etc ) in any year of college
128. Served on a student-faculty committee or group.
129. Elected or qppointed as a member of a campus-wrde student group. such as student council. student senate. otc.
130. Sérved on a governing board or an execu: tive council of a student group
131 Elected as one of the officers of a class (freshman. sophomore, etc) in any year of college.
132. Elected president of a "special interest" student club. such as psychology club. mountain climbing club, etc.
133. Received an award or special recognition of any kind for leadership.

## LIST 2. SOCIAL PARTICIPATION

14. Actively campargned to elect another student to a campus office.
Organized a college political group or campaign.
15. Worked actively in an off-campus political campaign.
16. Worked actively, in a student movement to change institutional rules. procedures. or polictes.
17. Initiated or organized a student movement to change institutional rules,' procedures. or

- policies.
$139^{\circ}$ Partucipated in a student poltical group (Young Demoćrats, Young Republicans. eic.).
140 Participated in one or more demonstrations for some political or social goal such as civil rights. free speech for students, states' rights. etc.
141 Wrote a"letter to the editor" regarding a social or civic problem
142 Wrote a letter to a state ległlator or US representative or senator doout pending or proposed legislation
143 Worked actively in a special study group (other than a class assignment) for the investigation of a social or poltucal issue


## LIST 3. ART

144 Won a prıze or award in art competition (drawing, painting. sculptura. ceramics, ar-

- chitecture. etc.).

145 Exhibited or published at my college one or more works of art. such as diawings. paintings. sculptures. ceramics. etc.
146. Had drawings. photographs. or other art work published in a public newspaper or magazine.

- 147. Entered an artistic compeltion of any kind.

148. Produced on my own (not as Dart of a course) one or more works of art. such as drawings. paintings. sculptures. ceramics. etc.
149 Exhibited or published not at my dollege one or more works of art, such as drawings. paintings. sculptures. ceramics, etc.

150 Sold one or more works of art. such as drawings. paintings. sculpiures. ceramics. eic
151. Own a collection of art books. paintings. of reprocticions.
152 Designed. made. and sold handicraft items such as jewelry. leathercraft. etc
153 Created or designed election posters. program covers. greeting cards. stage settings for a play, etc.

## LIST 4. SOCIAL SERVICE

154 Worked actively in a student service group or organization

155 Worked actively in a charity drive
156 Worked as a volunteer aide in-a hospital. clinic, or home

157 Served as a big brother (sister) or advisor to one or more foreign students
158 Organized a student service group
159 Worked activelyitn an off-campus sèrvice groub or organization
160 Workea as a volunteer on a campus or civic improvement project

161 Participated in a program to assist children or adults who were handicapped mentally physically, ar economically

162 Voluntarlly tutored a fellow student
163 Received an award or recognition for any kind of campus or community service

## LIST 5. SCIENTIFIC

164 Built scientific equipment (laboratory apparatus, a computer, etc) on my own (not as a part of a course)
165. Was appointed a teaching or research assistant in a scientific field

166 Received a prize or award for a scientific paper or project

167 Gave an original saper at a corvention or meeting sponsored by a scientific society or assoriation

168 On my own (not as part of a course), carred out or repeated one or more scientific experiments, recorded scientific observations of things or events in the natural setting. or assembled and maintained a collection of scientific specimens
169 Authored or co-authored scientific or scholarly paper published (or in press) in a screntific journal

170 Invented à patentable device
171 Was a member of a student honorary scienufic society

172 Entered a scientific competition of ahy kind
173 Wrote an unpublished scientific paper (not a course assignment)

## LIST 6I HUMANISTIC-CULTURAL

174 Developed and followed a program of reading of poetry. novelt. biographies, etc on my own (not course assignment)

175 Was a member of a student honorary society in the humanifes (literature, philosophy. language. etc)

176 Buitt a personal library around a core collection of poetry novels. biographies, etc

177 Attended a convention or meeting of a scholarly society in the humanities (literature. philcsophy, language. etc)
178 Authored or co-authored an original paper published (or in press) in a scholarly journal in the humanities (literature. philosophy. language. etc )
179 Read scholarly journals in the humanities - on my own (not as a course assignment)

180 Read one or more 'classic" literary works. on my own (not as a course asşgnment)
181 Wrote on my own. (not a course assignmetht) an unpublished scholarly paper in the humanities .
182 Won a prize or award for work in the humanities

183 Gave an original paper at a convention or meeting sponsored by a scholarly, society in' the humanities

## LIST 7. RELIGIOUS SERVICE

184 Was an active member of a student reli gious groud
185 O'ganized or ieorgahized a student relıgious group
186 Was an active member of an off-campus religious group (not a church)

187 Held one or more offices in a religious or ganization
188 Led one or more rehgrous services
189 Taught in a church. synagogue, etc

190 Attended one or more religious retreats. conferences, etc.

191 Participated in a religious study groud.
-192. Worked to rase money fof a religious insti; tutiond or group
193. Did voluntary work for a religious institution or group.

## LIST 8. :MUSIC

194 Composed or arranged music which was publicly performed.

195 Publick performed on two or more musical instrumeñts (including voice) which do not belong to the same family of instruments.
196 Conducted music which was publicly performed.
197. Presented in public à solo recital which was not under the auspices of a coiiege or church.
198. Attained recognition in the form of an award or scholarship in a national or international music competition.

199 Received pay for performing as a profes-sional-music teacher on á contınuing basis.
200 Composed or arranged music which has been published.
201. Attained a first division rating in a state or regronal solo music contest.
202 Received pay for performing as a professıonal musician on a continuing basis.

203 Authored or co-authored a book. an article. or a criticism bearing on the general subject of music.

## LIST 9. WRITING

204. H . gems. stories, essays. or artıcles pubKined in a public (not college) newspaper. anthology. etc.
205 Wrote one or more plays (including radio or TV playsi which were given public performance.
206 Was feature writer. reporter, etc. for collegè paper. annual, magazıne. anthology. etc. UNIVERSITY OF CALIF. los angeles

207 Was editor for college paper. annual. magaane anthology. etc.
208. Did news or feature writing for public (not .college) newspaper.
$\mathrm{O}_{209}$ Had poems. stories essays. or articles published in a college publication.
210 Wrote an original but unpublished piece of creative writing on my own (not as part of a course).

211 Won a literary prize or award for creative writing.
212 Systematically recorded my observations and thoughts in a diary or journal as resource material for writing.
213. Was a member of a student honórary groul in creative writing or journalism.

## L/ST . 10. -SPEECH AND DRAMA

214. Participated in one or more contests in speech. debate, extemporaneous speaking, etc.
215. Placed second. third, or fourth in a çontest in speech. debate. extemporaneous speaking, etc.
216. Won one or more contests in speech. debate. extemporaneous speaking, etc.
217. Had one or more minor roles in plays produced by my college or university.
218 Had one or more leads in plasys produced by my college or university.
218. Had one or more leads or minor roles in plays not produced by my university
219. Gave dramatic performance on rądio or TV. program
220. Received an award for acting or other phase of drama
*. ' $2222_{i}^{*}$ Gave a recital in speech.
221. Participated in a poetry reading,play reading. dramatic production. etc (not a course 'assignment)

Items 22:.-247 on your answer shèet provide the opportunity to answer relevant questions designed by your cailege to meet special needs on your campus.


[^0]:    ' New Yofk. McGraw-Hill. Inc , 1973
    ${ }^{2}$ David S. Bushell and Ivars Zagers. Washington. AACJC, 1972
    'New York, McGraw-Hull, Inc:: 1973.

[^1]:    ${ }^{1}$ Some students transfer to communty colleges from 4-year institutions.
    *Percent greater than zero but less than 0.5 .
    NOTE.-Details may'not add to totals because of rounding.

[^2]:    ${ }^{1}$ Some students transfer to comimunity colleges from 4-year institutions.

[^3]:    *"Regional Differences in Jumor Colluges." The Two-Year College And Its Students An Empuncal Report Iowa City, Iowa American College Testung Program, Inc, November 1969. pp 27-40

[^4]:    *A. W Astin, R. J Panos, and J. A. Creager, "A Program of Longitudinal Research on the Higher Educatonal System," ACE Research Reports, 1966, 1(1). See also John A Creager, "Fortran Programs Providing Weights in Survey Designs Using Stratufied Samples," Educational and Psychological Measurement, 1969. pp. 709-12.

