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ABSTRACT

Evidence of Cuyahoga Community College's success in preparing its 1966-through-1969 career program graduates for their chosen occupations was sought in this study. One thousand one graduates were sent questionnaires and 350 responded with the requested employment data and course-of-study evaluations. After studying the responses, the researcher concluded that most graduates found their educational experiences satisfactory, with 73% feeling that their formal preparation was absolutely necessary, and 14% feeling that it was of some assistance in obtaining their current employment. (J0)

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FOLLOW-UP OF CAREER GRADUATES
CURRENTLY EMPLOYED

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Office of Institutional Research and Studies
Office of the Executive Vice-President

Cuyahoga Community College

Cleveland, Ohio

April 8, 1970

UNIVERSITY OF CALIF.
LOS ANGELES

MAY 14 1970

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The following additional studies have been published during the 1969-70 academic year and are available upon request from the Office of Institutional Research.

The Students - 1968

Part-Time Students - 1968

The Graduates - 1969

Survey of Student Attitudes - 1969

Transfer Students - 1968

Biology Students - A Study of Transfers

Comments concerning these studies or suggestions for additional studies are welcome at any time.

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It is hoped that many segments of this study will be valuable to the academic community of Cuyahoga Community College. Suggestions for improvements or expansion of this study will be greatly appreciated.

Donald E. Greive

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INTRODUCTION AND HIGHLIGHTS

What happens to students with an Associate in Science degree after graduation from Cuyahoga Community College? For the most part, what does happen depends on the student himself, the plans he's made, the goals he's set, and indeed the extent to which he's prepared himself for a highly competitive world. On the other hand, the question of what happens to Cuyahoga Community College graduates begs still another, more important question: how well is Cuyahoga Community College preparing the Associate in Science graduate for the career he has selected?

This study, conducted by the Office of Institutional Research in the fall of 1969, focuses on the career graduate of Cuyahoga Community College. To provide a general overview of career program graduates, the collected data is presented for Cuyahoga Community College as a whole, not for each campus. It was hoped that information provided by the career graduates themselves would help to ascertain what happens to career graduates of Cuyahoga Community College and to further determine, from the graduates' point of view, the relationship, if any, between formal preparation at Cuyahoga Community College and student employability. Questionnaires were mailed to 1,001 Associate in Science graduates for the academic years 1966, 1967, 1968, and 1969. The questionnaire was designed to determine the graduate's particular employment, job title, monthly salary, employer's identity, the graduate's opinion about the Cuyahoga Community College

course or courses that were most and least valuable in relation to his job, and his evaluation of the extent to which his training at Cuyahoga Community College helped to obtain his present job. Of the 1,001 graduates, 350 or 35 percent responded by returning completed questionnaires to the Office of Institutional Research.

The collected data and subsequent findings are assembled into four curriculum areas: business careers, health occupations, public service, and technical and related careers. Each curriculum area is divided into the related occupations which correspond to those reported by employed graduates. The career programs covered in the study are: the business careers in accounting, business management, data processing, retailing, secretarial science, and transportation; the health occupations of dental hygiene, medical assisting, and nursing; the public service careers of law enforcement, nursery school assistant, and transportation; and the technical and related careers in building construction technology, electronic technology, industrial supervision, and mechanical technology. Each section indicates the number of employed graduates, type of employment, salary information, the graduates' opinions about the relationship between their Cuyahoga Community College curriculum and their current job, and the graduates' suggestions for additions to or the modification of Cuyahoga Community College curricula.

Specific findings for each of the curriculum areas indicate that: (1) most graduates of business career programs average \$650 monthly, though secretarial science graduates average \$463 per month and transportation graduates average \$560 monthly; (2) in the health

occupations, dental hygiene graduates average \$674 monthly, nursing graduates average \$638 monthly, and medical assisting graduates average \$423 per month; (3) in the public service occupations, law enforcement graduates average \$600 monthly and nursery school assistant graduates average \$409 per month; and (4) in engineering technology, industrial supervision graduates average \$745 monthly, building construction graduates average \$631 monthly, electronic technology graduates average \$617 monthly, and mechanical technology graduates average \$530 per month.

The general findings of the study indicate that: (1) for the most part, the responding career graduates are satisfied with the educational experience they had at Cuyahoga Community College and believe that their formal preparation at Cuyahoga Community College was absolutely necessary for, or was at least of some assistance in, obtaining their current employment; (2) nearly 12 percent of all responding career graduates feel that "no courses" were of least value to them, an interesting finding in view of the general preference of career program graduates for field-related courses; (3) the mean salary for all responding career graduates is \$606 per month, or \$7,272 per year; and (4) 82 percent of all responding career graduates are employed by organizations in the Greater Cleveland Metropolitan Area.

I - PURPOSE

The purpose of this study in surveying students who graduated from career programs at Cuyahoga Community College is to evaluate the career program from the graduates' viewpoint as to its necessity and value in helping them obtain and retain their present employment. Subordinate motives included the determination of least and most valuable courses according to the respondents as well as graduates' average monthly salary in the various career programs. In addition, the graduates were asked to provide supplementary information to assist the academic community in curriculum planning. Specifically, this study intends to determine:

1. The number of graduates employed in each field surveyed and the relationship of their employment to their preparation for employment.
2. The kind of employment in which they are now involved.
3. The mean salary and salary range received by graduates of the Cuyahoga Community College career programs.
4. The courses completed at Cuyahoga Community College that, in the respondents' opinion, are of the greatest and least value to the respondents' employment.
5. The names and addresses of the respondents' employers so that follow-up on the graduates responding may be conducted in the future.

II - DATA COLLECTION

In the fall of 1969 questionnaires were sent to all 1966, 1967, 1968, and 1969 graduates of career programs. A follow-up mailing to those not responding to the first questionnaire was sent to increase the number of responses. A total of 350 responses or 35 percent was recorded from a population of 1,001 graduates. The graduates, in responding to the questions, were asked to identify themselves so that later research could be conducted comparing college records with employment opportunities. In addition, the graduates were asked to indicate the firm in or by which they are presently employed.

Findings of this study are presented in four sections: business careers, health occupations, public service, and technical and related careers. Within the sections of this study data regarding each curriculum area is presented. Open-ended questions were included in the questionnaire in which the respondents were asked to indicate the course that was of the greatest value to them as well as the course that was of the least value, and to make other comments if desired. The tabulation in this study shows percentage figures as well as summary data.

Thirty-five percent represents a satisfactory return.¹ It appears to be low if construed to represent the total number of employed graduates. There are, however, a number of speculative but acceptable ways to account

¹Frederick F. Stephan and Philip J. McCarthy, Sampling Opinions, An Analysis of Survey Procedure (New York: John Wiley & Sons, Inc., 1958), p. 49.

for the 65 percent who did not respond. Consider, for example, that according to a recent study 53 percent of surveyed graduates of Associate in Science programs indicated plans for transferring to a four-year college.² Although it cannot be assumed that this percentage actually do transfer, it is safe to conclude that a significant number of career graduates transfer and therefore do not enter the labor market subsequent to graduation. Career graduates who transferred to four-year institutions, then, no doubt account for part of the 65 percent who did not respond. Consider also, those career graduates who were unemployed at the time of the study and those male graduates who were in military service and either perhaps did not consider the questionnaire applicable to their current status or simply did not receive the questionnaire. It is also possible that the request for the student's name on the questionnaire---the lack of anonymity---deterred would-be respondents. And finally, it should be noted that for any questionnaire survey there is a percentage who simply do not respond in any event.

It cannot be determined how many of the 65 percent who did respond are actually employed. But it is not unsafe to assume that the 350 respondents represent more than 35 percent of all career graduates actually employed.

²Cuyahoga Community College, The Graduates, Cuyahoga Community College 1969, A Report Prepared by the Office of Institutional Research and Studies (Cleveland: Cuyahoga Community College, 1969), p. 4.

III - FINDINGS

Business Careers

This section shows the information reported by graduates who are employed in business careers. It includes graduates who completed accounting, business management, data processing, retailing, secretarial science, and transportation curricula. The total number of respondents for business careers was 73.

Accounting

1. Nine graduates responding to this study completed the accounting curriculum at Cuyahoga Community College. Of the nine graduates, eight respondents or 89 percent were employed full-time.
2. Of the nine graduates employed in accounting, six respondents or 67 percent felt their training was absolutely necessary or of some assistance in obtaining employment. The remaining 33 percent did not reply to this question.
3. The mean salary of the accounting graduates is \$624 per month with a range of \$428 to \$920.
4. Six respondents listed accounting and three listed data processing as most valuable courses. Other courses named by the respondents to be of greatest value were: psychology, marketing, business math, English, social science and business law.
5. Two graduates indicated sociology and social science, while two graduates indicated health as least valuable courses.

6. Some of the comments offered by the accounting graduates were:
 "Cuyahoga Community College was one of the greatest things that ever happened to me," "We need a course in practical tax accounting," "More management courses," and "Should make all freshman and sophomore courses transferrable."

7. The accounting graduates responding to this survey were employed part-time or full-time by the following organizations:

National City Bank
 East 6th & Euclid
 Cleveland, Ohio

Ford Motor Company
 Post Office Box 9898
 Cleveland, Ohio

Towmotor Corporation
 East 152nd Street
 East Cleveland, Ohio

William Meese Advertising Art Company
 #301 Bulkeley Building
 Cleveland, Ohio

General Electric Service Shop
 4477 East 49th Street
 Cleveland, Ohio

Automatic Sprinkler Corporation (ATO)
 1000 East Edgerton
 Cleveland, Ohio

Storer Meat Inc.
 3007 Clinton
 Cleveland, Ohio

General Electric Company
 1814 East 45th Street
 Cleveland, Ohio

Society National Bank
 127 Public Square
 Cleveland, Ohio

TABLE I
 PLACEMENT - CAREER PROGRAM GRADUATES
 ACCOUNTING

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Cost Analyst	1	\$920		x			
Plant Foreman	1	\$750			x		
Cost Analyst	1	\$700		x			
Accountant	1	\$604		x			
Cashier	1	\$568					x
Supervisor	1	\$525					x
Junior Accountant	1	\$500		x			
Bookkeeper-Receptionist	1	\$428		x			
Audit Clerk (Student)	1		PT				x
Totals	9	8	1	5	1	0	3
Percent of Total	100	89	11	56	11	0	33

*Mean Salary: \$624

Business Management

1. Nineteen graduates responding to the survey indicated that they had completed the business management curriculum. Of the respondents in this program, more than half were employed full-time.

2. Thirteen graduates or 68 percent of the respondents indicated that their training was absolutely necessary or of some assistance in helping them obtain their present employment whether it was full-time or part-time. Four students did not reply to this question.

3. The mean salary of graduates in the business management program who are employed full-time is \$712 per month with a range of \$350 to \$1800 per month.

4. Courses listed as most valuable were business courses, accounting, speech, and business math.

5. The courses most frequently listed as being of least value to the business management graduates were history, accounting, and political science.

6. Comments offered by the business management graduates included: "I found the satisfaction in completing the program at Cuyahoga Community College to be rewarding in obtaining a good job," "Could use more courses in principles of estimating in construction contracts," "I am grateful to be able to get a degree at a reasonable cost while working full-time," and "Cuyahoga Community College was a great help to me."

7. Graduates of the business management program are employed either part-time or full-time by the following organizations:

Lakewood Country Club
2613 Bradley
Lakewood, Ohio

Higbee Company
Public Square
Cleveland, Ohio

Cleveland Electric Illuminating Company
55 Public Square
Cleveland, Ohio

Warrensville Heights Fire Department
4301 Warrensville Center
Warrensville Heights, Ohio

Family Frozen Foods, Inc.
7120 Southfield Drive
Cleveland, Ohio

Republic Steel Corporation
3100 East 45th Street
Cleveland, Ohio

Pioneer Contracting Corporation
5444 Perkins Road
Bedford Heights, Ohio

Allied Color Industries, Inc.
4432 Warner Road
Cleveland, Ohio

Midland Electric Company
2125 Superior Avenue
Cleveland, Ohio

General Electric Corporation
20600 Sheldon Road
Cleveland, Ohio

Community National Bank
Northfield at Emery
Cleveland, Ohio

Retail Credit Company
20950 Center Ridge Road
Lakewood, Ohio

Remington Rand
1405 Lakeside Avenue
Cleveland, Ohio

Youngstown Sheet & Tube
Poland Avenue
Campbell, Ohio

TABLE 2
 PLACEMENT - CAREER PROGRAM GRADUATES
 BUSINESS MANAGEMENT

Job Title	No	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso- lutely Necessary	Some Assist- ance	No Relation- ship	No Reply
Assistant Vice President	1	\$1800			x		
Field Office Manager	1	763			x		
Fireman	1	730			x		
Accounting Clerk Senior	1	725			x		
Student Engineer	1	725			x		
Insurance Investigator	1	650			x		
Driving Instructor	1	600				x	
Residential Lighting Consultant	1	404		x			
Bank Teller	1	375			x		
Sales Representative	1	350			x		
Credit Specialist	1		NR		x		
Ledger Clerk	1		NR	x			
Managing (Owner)	1		NR	x			
**Medic - Vietnam	1		NR		x		
Student	2		2 - NR				2
Unemployed	3		3 - NR			x	2
Totals	19	10	9	3	10	2	4
Percent of Total	100	53	47	16	53	10	21

*Mean Salary: \$712

** In military service and not included in mean salary

Data Processing

1. Twenty-one graduates responding to the questionnaire had completed the data processing curriculum. Of the 21 respondents, 16 graduates or 76 percent were employed full-time.
2. Seventy-two percent of the respondents indicated that their training was absolutely necessary or of some assistance in helping them gain their employment.
3. The mean salary, which does not reflect the salaries of those in military service, of the 13 data processing graduates employed full-time is \$613 per month; salaries range from \$375 to \$825 per month.
4. Courses cited as most valuable by the data processing graduates were programming, systems analysis, and accounting.
5. Economics, music appreciation, world government, and physical education were regarded as least valuable.
6. Comments offered by data processing graduates were: "Need a co-op program," "Need a course in S-360 Cobol and operation," "More advanced computer courses," "More work in business communications, memos, letters and report writing would be helpful." Three graduates responded that they need more data processing and related courses.
7. The following organizations employed graduates of the data processing curriculum on a part-time or full-time basis:

General Electric - Euclid Lamp Plant
1814 East 45th Street
Cleveland, Ohio

B. F. Goodrich
3135 Euclid Avenue
Cleveland, Ohio

Empire Savings and Loan
California Street
Denver, Colorado

Glidden-Durkee
Union Commerce Building
Cleveland, Ohio

TRW
Clarkwood and Cedar
Cleveland, Ohio

U. S. Army Security Agency
Carl Reming
TUSLOG DET. 4 Box 749
APO New York 09133

Diamond Shamrock
Union Commerce Building
9th and Euclid Avenue
Cleveland, Ohio

Columbia University
New York City, New York

Cleveland Electronics, Inc.
1974 East 51st Street
Cleveland, Ohio

Navy Finance Center
New Federal Office Building
Cleveland, Ohio

Cleveland State University
East 24th and Euclid Avenue
Cleveland, Ohio

Cuyahoga Community College
2900 Community College Avenue
Cleveland, Ohio

Eaton Yale and Towne Telecomputer Center
35599 Curtis Boulevard
Cleveland, Ohio

Retail Clerks Union
Local 880 (Pension Office)
2828 Euclid Avenue
Cleveland, Ohio

White Trucks
East 79th and St. Clair
Cleveland, Ohio

United States Navy
Jacob Popek
USS Grand Canyon/AD-28
FPO New York

Central Data System
2800 Superior Avenue
Cleveland, Ohio

TABLE 3
 PLACEMENT - CAREER PROGRAM GRADUATES
 DATA PROCESSING

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Systems Programmer	1	\$825			x		
Systems Analyst	1	\$795		x			
Digital Computer Programmer	1	\$775			x		
Lead Programmer	1	\$758		x			
Senior Computer Operator	1	\$675		x			
Programmer	1	\$625		x			
Programmer	1	\$600		x			
Programmer Trainee	1	\$570		x			
Programmer	1	\$565		x			
Co-op Employee	1	\$500			x		
Assistant Office Manager	1	\$450		x			
Programmer	1	\$450		x			
Production Control	1	\$375		x			
**NCOIC Moorehead Maintenance	1	\$350				x	
**Electronic Technician - P02	1	\$290				x	
**Naval Recruit	1	\$125				x	
Assistant Application Programmer	1		PT		x		
Programmer Trainee	1		NR		x		
**SP4 - United States Army	1		NR				x
Student	1		NR				x
Unemployed	1		NR				x
Totals	21	16	5	10	5	3	3
Percent of Total	100	76	24	48	24	14	14

*Mean Salary: \$613

**In military service and not included in mean salary

Retailing

1. Five respondents indicated that retailing was their major field of study at Cuyahoga Community College. Of these five, 60 percent or three respondents were employed full-time.

2. Two of the retailing graduates felt that their training was absolutely necessary, and one felt that it was of some assistance in obtaining employment.

3. The mean salary of the retailing graduates is \$640 per month with a range of \$600 to \$700.

4. The course cited as most valuable by more than one graduate was accounting.

5. More than one graduate cited health as the least valuable course.

6. The only comment listed by the retailing graduates was that more information on transferrable courses was desired.

7. The following organizations employed graduates of the retailing program either on a part-time or full-time basis:

Spartan Atlantic
420 Northfield Road
Bedford, Ohio

Dyke College
1375 East 6th Street
Cleveland, Ohio

The East Ohio Gas Company
East 9th and Euclid Avenue
Cleveland, Ohio

Ohio Meats
7014 Clark Avenue
Cleveland, Ohio

TABLE 4
 PLACEMENT - CAREER PROGRAM GRADUATES
 RETAILING

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso- lutely Necessary	Some Assist- ance	No Relation ship	No Reply
Salesman	1	\$700		x			
Payroll Clerk	1	\$620				x	
Assistant Manager	1	\$600			x		
Student	2		2- NR	x			x
Totals	5	3	2	2	1	1	1
Percent of Total	100	60	40	40	20	20	20

*Mean Salary: \$640

Secretarial Science

1. Sixteen graduates indicated that they had completed the secretarial science program at Cuyahoga Community College. Of the 16 responses, 14 graduates or 88 percent, were employed full-time.
2. Forty-four percent or seven of the graduates felt their training was absolutely necessary for gaining employment. An additional 6 respondents or 38 percent felt that it was of some assistance. Thus, 82 percent of the secretarial science graduates felt that their training was absolutely necessary or of some assistance in obtaining their present employment.
3. The mean salary reported by secretarial science graduates is \$463 per month with a range of \$380 to \$553 per month.
4. Shorthand, filing, accounting, business courses, office methods, psychology and business math were listed as courses most valuable to the students.
5. Courses listed as least valuable to the secretarial science graduates were philosophy and history. Four graduates indicated that none of the courses were of least value.
6. "Need a course in business machines and a better course in human relations," and "Two years at Cuyahoga Community College helped prepare me for my job," were some of the comments offered by the secretarial science graduates. Two students indicated a need for additional course work in office procedures, and that tours of companies would have been helpful.
7. The following organizations employed graduates of the secretarial science program either part-time or full-time:

State of Ohio at Fairhill
12200 Fairhill Road
Cleveland, Ohio

U.S. Government c/o Oscar Meyer
Vernon Street
Los Angeles, California

American Airlines
La Guardia, New York

S - W Company
101 Prospect Avenue
Cleveland, Ohio

Veterans Administration, R.O.
1240 East 9th Street
Cleveland, Ohio

Service Bureau Corporation
IBM Subsidiary
777 Rockwell Avenue
Cleveland, Ohio

Glidden Durkee (2)*
Division SCM Corporation
900 Union Commerce Building
Cleveland, Ohio

Addressograph Multigraph Corporation
1200 Babbitt Road
Cleveland, Ohio

Federal Aviation Administration
ARTCC
Oberlin, Ohio

Disbro and Company, Inc.
1000 Terminal Tower
Cleveland, Ohio

Standard Oil Company
1073 Guildhall Building
Cleveland, Ohio

ESB, Inc.
2000 East Ohio Building
Cleveland, Ohio

*Figures listed after company name indicate number of graduates employed with the firm.

TABLE 5
PLACEMENT - CAREER PROGRAM GRADUATES
SECRETARIAL SCIENCE

Job Title	No	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Clerk	1	\$553		x			
Senior Steno Clerk	1	\$520		x			
Airline Stewardess	1	\$500				x	
Asst. to Marketing Personnel	1	\$500			x		
Secretary	1	\$500		x			
Secretary	1	\$490			x		
Secretary - Steno	1	\$490		x			
Secretary - Steno	1	\$475		x			
Clerk - Steno GS4	1	\$425			x		
Secretary for Vice President	1	\$425			x		
Control Clerk II	1	\$425			x		
Secretary	2	\$400		2			
Secretary	1	\$380			x		
Housewife	2		2- NR				2
Totals	16	14	2	7	6	1	2
Percent of Total	100	88	12	44	38	6	12

*Mean Salary: \$463

Transportation

1. Two respondents indicated that they had completed the transportation program at Cuyahoga Community College.

2. One was employed full-time and the other on a part-time basis. The full-time employee earned \$560 per month and felt that his training was of some assistance in obtaining his present employment. The other felt that there was no relationship between his training and his present job.

3. The courses listed as most valuable were business math, English, and business courses.

4. Courses listed as least valuable were typing and health.

5. The following organizations employed graduates of the transportation curriculum:

Ohio Bell Telephone Company
10656 Euclid Avenue
Cleveland, Ohio

Standard Oil Company
Midland Building
Cleveland, Ohio

TABLE 6
PLACEMENT - CAREER PROGRAM GRADUATES
TRANSPORTATION

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso-lutely Necessary	Some Assist-ance	No Relation-ship	No Reply
Junior Analyst	1	\$560			x		
Marketing Engineer	1		NR			x	
Totals	2	1	1	0	1	1	0
Percent of Total	100	50	50	0	50	50	0

*Mean Salary: \$560

Health Occupations

This section of the study contains findings related to graduates who completed health occupation programs such as dental hygiene, medical assisting, and nursing. The number of respondents in health occupations was 186.

Dental Hygiene

1. Twenty-five of the respondents completed the dental hygiene program at Cuyahoga Community College. Of the 25, 18 respondents or 72 percent, were employed full-time.
2. Twenty-four of the respondents (96 percent) indicated that their training was absolutely necessary for their employment.
3. The mean salary of dental hygiene graduates is \$674 per month with a range of \$467 to \$850 per month.
4. Courses cited most often by the hygiene graduates as the most valuable for employment were dental hygiene courses (16), clinical experience (7), and all courses (6).
5. The courses most frequently listed as least valuable to dental hygiene graduates were English literature (4), chemistry (3), and physical education (3).
6. "Good courses prepared me for my present occupation," "One of the finest programs Cuyahoga Community College has," and "An excellent dental hygiene department," are some of the comments made by dental hygiene graduates. Three graduates felt a need for more psychology courses.
7. The following organizations have employed either part-time or full-time graduates of the dental hygiene program:

Dr. R. C. Rice
Maywood Medical Arts Building
Cleveland, Ohio

Dr. James J. Patted
612 Equitable Building
Des Moines, Iowa

Dr. Don E. Douglas
Castel Building
Middletown, Ohio

Dr. Dan Butler
2245 Warrensville Center Road
University Heights, Ohio

Dr. James Langan
1499 Mentor Avenue
Painesville, Ohio

Cleveland Board of Education
1380 East 6th Street
Cleveland, Ohio

Dr. S. J. Ruzicka, D.D.S.
20911 Lorain Road
Fairview Park, Ohio

Dr. Robert Stearns
Rossford, Ohio

Dr. M. P. Lavigna
20500 Lakeshore Blvd.
Euclid, Ohio

Donald Kwait, D.D.S.
29176 Euclid Avenue
Wickliffe, Ohio

Dr. C. E. Witmer
767 East 185th Street
Cleveland, Ohio

Dr. A. E. Krane
15335 Waterloo Rd.
Cleveland, Ohio

Geauga County Schools
105 Water Street
Chardon, Ohio

Dr. J. Weldon Pryon
8444 Winton
Cincinnati, Ohio

Drs. Scaletta & Newcomer
4959 Monticello Blvd.
Richmond Heights, Ohio

Drs. Frumker & Arnold
1800 Williamson Building
Cleveland, Ohio

Dr. D. B. Wiesler
419 Columbus Avenue
Sandusky, Ohio

Dr. R. E. Koch
20997 Lorain Road
Fairview Park
Cleveland, Ohio

Dr. H. P. Betz
4611 Summit
Toledo, Ohio

TABLE 7
 PLACEMENT - CAREER PROGRAM GRADUATES
 DENTAL HYGIENE

Job Title	No.	Salary		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Dental Hygienist	1	\$850		x			
Dental Hygienist	1	\$800		x			
Registered Dental Hygienist	2	\$800		2			
Registered Dental Hygienist	1	\$750		x			
Dental Hygienist	1	\$750		x			
Dental Hygienist	3	\$700		3			
Dental Hygienist	1	\$670		x			
Dental Hygienist	1	\$660		x			
Dental Hygienist	1	\$650		x			
Registered Dental Hygienist	1	\$620		x			
Dental Hygienist	2	\$600		2			
Dental Hygienist	1	\$516		x			
Dental Hygienist	1	\$500		x			
Dental Hygienist	1	\$467		x			
Dental Hygienist	5		2-PT 3-NR	4	x		
Registered Dental Hygienist	1		PT	x			
Teacher of Dental Hygiene	1		NR	x			
Totals	25	18	7	24	1	0	0
Percent of Total	100	72	28	96	4	0	0

*Mean Salary: \$674

Medical Assisting

1. Twelve graduates responding to this survey indicated that they had completed the medical assisting program at Cuyahoga Community College. Nine of the graduates or 75 percent are employed full-time.

2. Four of the graduates (17 percent) felt their training to be absolutely necessary for employment while another 7 graduates (33 percent) felt that the training was of some assistance in helping them to obtain their present employment.

3. The mean salary for medical assisting graduates employed full-time is \$423 per month with a range of \$350 to \$550 per month.

4. Medical terminology, anatomy and physiology, medical assisting, lab procedures and psychology were the courses most frequently cited as most valuable to medical assisting graduates.

5. Courses suggested as least valuable to medical assisting graduates were human relations and history. Two graduates indicated that no courses were of least value.

6. Comments offered by medical assisting graduates included "More lab work" (3), and "More in dealing with people" (2). Additional comments offered were "Insurance policies should be stressed," and "More contact with doctors."

7. The following organizations employed graduates of the medical assisting program at Cuyahoga Community College either on a part-time or full-time basis:

Alliance Printing Company
13950 Broadway Avenue
Garfield Heights, Ohio

River West Medical Building
3878 Rocky River Drive
Cleveland, Ohio

Hawthorne Hills School
Post Office Box 305
Cleveland, Ohio

Doctor's Center
24700 Cedar
South Euclid, Ohio

University Hospitals (2)*
2065 Adelbert Road
Cleveland, Ohio

Norman W. Goldston, M.D.
5637 Mayfield Road
Lyndhurst, Ohio

Drs. Rome, Smith and Michaels
Severance Medical Center
Cleveland Heights, Ohio

St. Vincent Charity Hospital
2351 East 22nd Street
Cleveland, Ohio

University Cedar Medical Building
10900 Carnegie Avenue
Cleveland, Ohio

Cleveland Clinic Foundation
Euclid Avenue
Cleveland, Ohio

* Figures listed after company name indicate number of graduates employed with the firm.

TABLE 8
 PLACEMENT - CAREER PROGRAM GRADUATES
 MEDICAL ASSISTING

Job Title	No	Salary*		Training Necessity			No Reply
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	
Office Manager	1	\$550			x		
Lab Technician	1	\$450			x		
Medical Secretary	1	\$450			x		
Clerk - Steno III	1	\$433			x		
Medical Secretary	1	\$410			x		
Medical Assistant	1	\$400		x			
Medical Secretary	1	\$400			x		
Lab Technician	1	\$368		x			
Doctor's Assistant	1	\$350					x
Housewife	1		NR		x		
Medical Assistant	2		1-PT 1-NR	2			
Totals	12	9	3	4	7	0	1
Percent of Total	100	75	25	33	58	0	9

*Mean Salary: \$423

Nursing

1. One hundred forty-nine respondents indicated that they had completed the nursing program at Cuyahoga Community College. Of the 149, 128 graduates or 86 percent were employed full-time at the time they completed the questionnaire.

2. One hundred forty-six of the respondents or 98 percent indicated that their training was absolutely necessary for or of some assistance in obtaining their present employment. One nursing graduate indicated "no relationship." Possibly she misunderstood the question. Since she was out of the Cleveland area, no follow-up was done. However, a follow-up phone call was made to a Cleveland area nurse who at first had also indicated that there was "no relationship" between her training and present job; she stated that she had "made a mistake" and by phone changed her response to "some assistance."

3. The mean salary for graduates completing the nursing program was \$638 per month, with a range of \$324 to \$988 per month.

4. Courses cited as most valuable to the nursing graduates were nursing courses (80), anatomy and physiology (35), psychology (28), English (13), all courses (8), principles of medical science (5), science (5), math (5), and psychiatric nursing (5).

5. Courses listed by nursing graduates to be of least value in their employment were none (39), history (24), social science (23), and English (17).

6. Comments offered by graduates of nursing include: "Need more psychology" (20), "More clinical experience" (14), "More medical terminology" (9), and "More math" (6).

7. The following organizations have employed graduates of the nursing program at Cuyahoga Community College either part-time or full-time:

American Red Cross
1227 Prospect
Cleveland, Ohio

Euclid General Hospital
Lakeshore Blvd.
Cleveland, Ohio

Hamot Hospital
School of Anesthesiology
Erie, Pennsylvania

Geauga Community
Chardon, Ohio

Kurthwood Manor
Leesville, Louisiana

Mercy Memorial Hospital
Urbana, Ohio

Cleveland Metropolitan General Hospital (2)*
3395 Scranton
Cleveland, Ohio

O'Bleness Memorial Sheltering Arms Hospital
Athens, Ohio

Memorial Hospital
Colorado Springs, Colorado

Hillcrest Hospital (2)*
6780 Mayfield Road
Mayfield Heights, Ohio

Mansfield General Hospital
335 Glessner Avenue
Mansfield, Ohio

Brecksville Veterans Administration Hospital
10000 Brecksville
Brecksville, Ohio

St. Thomas Hospital
Akron, Ohio

Riverside Methodist Hospital
Olentangy River Road
Columbus, Ohio

Hough Norwood Family Center
1465 East 55th Street
Cleveland, Ohio

Green Cross Hospital
1900 23rd Street
Cuyahoga Falls, Ohio

Grace Hospital
2307 West 14th Street
Cleveland, Ohio

Visiting Nurse Association
1391 Marlowe Avenue
Cleveland, Ohio

Mt. Sinai Hospital (26)*
1800 East 105th Street
Cleveland, Ohio

Euclid General Hospital
East 185th Street
Cleveland, Ohio

Huron Road Hospital (8)*
Terrace Road
Cleveland, Ohio

St. Luke's Hospital (10)*
11311 Shaker Blvd.
Cleveland, Ohio

Brentwood Hospital (3)*
Warrensville Heights, Ohio

Cleveland Clinic Hospital (5)*
East 93rd & Euclid Avenue
Cleveland, Ohio

Hillcrest Hospital (5)*
Mayfield Road
Mayfield, Ohio

University Hospitals (6)*
Adelbert Road
Cleveland, Ohio

Fairview General Hospital (5)*
18101 Lorain Road
Cleveland, Ohio

Hawthornden State Hospital
Northfield, Ohio

Veterans Hospital (2)*
10701 East Blvd.
Cleveland, Ohio

General Hospital
Lake Shore & East 185th Street
Cleveland, Ohio

Bi-Weekly Cleveland Clinic Hospital
Cleveland, Ohio

General Motors
Earthmoving Equipment Division
Hudson, Ohio

Owens-Illinois, Inc.
Libbey Products
Post Office Box 919
Toledo, Ohio

Woman's Hospital
1940 East 101st Street
Cleveland, Ohio

Lutheran Hospital
Franklin Avenue
Cleveland, Ohio

Grace Hospital (5)*
West 14th Street
Cleveland, Ohio

Van Huffle Tube
Deitz Road
Warren, Ohio

Wright Nursing Center
13315 Detroit
Cleveland, Ohio

St. Vincent Charity Hospital (5)*
East 22nd & Central
Cleveland, Ohio

Aristocrat South Nursing Home
6455 Pearl Road
Cleveland, Ohio

Doctor's Hospital
Massillon, Ohio

Cleveland Metropolitan General Hospital (7)*
Scranton Road
Cleveland, Ohio

Lakewood Board of Education
1470 Warren Road
Lakewood, Ohio

Carle Foundation Hospital
602 University
Urbana, Illinois

Carnegie Community Health Center
4520 Carnegie
Cleveland, Ohio

Richmond Heights General Hospital
27100 Chardon Road
Cleveland, Ohio

Highland View Hospital
Cleveland, Ohio

Toledo Hospital
2142 North Cove Drive
Toledo, Ohio

Aristocrat West ECF
4387 W. 150th & Puritas
Cleveland, Ohio

Children's Hospital
San Francisco, California

Marymount Hospital
12300 McCracken Road
Garfield Heights, Ohio

The Polyclinic Hospital
6606 Carnegie Avenue
Cleveland, Ohio

Parma Community General Hospital (2)*
7007 Powers Avenue
Parma, Ohio

Booth Memorial Hospital
1881 Torbenson Drive
Cleveland, Ohio

Aultman Hospital
Canton, Ohio

Lake County Memorial West
36000 Euclid Avenue
Willoughby, Ohio

Kaiser Foundation Hospital
1697 Alamoana
Honolulu, Hawaii

St. John's Hospital
7911 Detroit Avenue
Cleveland, Ohio

John Randolph Hospital
Hopewell, Virginia

St. Alexis Hospital (2)*
5163 Broadway
Cleveland, Ohio

Lakewood Hospital (2)*
14915 Detroit Avenue
Lakewood, Ohio

*Figures listed after company name indicate number of graduates employed with the firm.

TABLE 9
 PLACEMENT - CAREER PROGRAM GRADUATES
 NURSING

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Registered Nurse	1	\$988		x			
Registered Nurse	2	\$800		x	x		
Registered Nurse	3	\$750		3			
Charge Nurse	1	\$740		x			
Assistant Head Nurse	1	\$730		x			
Registered Nurse	1	\$725		x			
Assistant Head Nurse	2	\$720		2			
Head Nurse	1	\$720		x			
Staff Nurse	1	\$720		x			
Registered Nurse	1	\$715		x			
Registered Nurse	1	\$705		x			
Staff Nurse	1	\$700		x			
Staff Nurse	1	\$695		x			
Registered Nurse	1	\$690		x			
Team Leader	1	\$690		x			
Registered Nurse	3	\$680		3			
Staff Nurse	1	\$680		x			
Staff Nurse	1	\$678		x			

TABLE 9 - Continued

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Registered Nurse	2	\$675		2			
Staff Nurse	1	\$674		x			
Staff Nurse	1	\$670		x			
Registered Nurse	1	\$669		x			
Supervisor	1	\$667		x			
Operating Room Nurse	1	\$666		x			
Registered Nurse	1	\$665		x			
Registered Nurse	1	\$660		x			
Staff Nurse	2	\$658		2			
Registered Nurse	1	\$656		x			
Staff Nurse	1	\$655		x			
Registered Nurse	1	\$652		x			
Staff Nurse	1	\$652		x			
Supervisor	1	\$652		x			
Graduate Nurse	1	\$650		x			
Nurse	1	\$650		x			
Registered Nurse	22	\$650		22			
Staff Nurse	13	\$650		13			
Registered Nurse	2	\$640		2			

TABLE 9 - CONTINUED

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso- lutely Necessary	Some Assist- ance	No Relation- ship	No Reply
Staff Nurse	1	\$640		x			
Staff Nurse	2	\$632		2			
Head Nurse	1	\$630		x			
Registered Nurse	1	\$630		x			
Screening Treatment Nurse	1	\$625		x			
Registered Nurse	1	\$612		x			
Staff Nurse	1	\$610		x			
Registered Nurse	1	\$609		x			
Assistant Head Nurse	1	\$608		x			
Registered Nurse	1	\$606		x			
Assistant Head Nurse	1	\$600		x			
Charge Nurse	1	\$600		x			
Registered Nurse	15	\$600		15			
School Nurse	1	\$600		x			
Staff Nurse	4	\$600		4			
Supervisor	1	\$600		x			
Registered Nurse	1	\$590		x			
Registered Nurse	1	\$575		x			
Staff Nurse	1	\$575		x			
Staff Nurse	1	\$570		x			
Visiting Nurse	1	\$560		x			

TABLE 9 - Continued

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso- lutely Necessary	Some Assist- ance	No Relation- ship	No Reply
Registered Nurse	1	\$555		x			
Registered Nurse	1	\$550		x			
Staff Nurse	1	\$550		x			
Registered Nurse	1	\$504				x	
Registered Nurse	1	\$500		x			
Staff Nurse	1	\$493		x			
Registered Nurse	1	\$450		x			
Nurse	1	\$400		x			
Registered Nurse	1	\$400		x			
Registered Nurse	1	\$324		x			
Graduate Nurse	2		1-NR 1-PT	2			
Registered Nurse	11		7-NR 4-PT	11			
Staff Nurse	4		2-NR 2-PT	4			
Student	1		NR				x
Student Anesthetist	1		PT	x			
Unemployed	2		2-NR	x			x
Totals	149	128	21	145	1	1	2
Percent of Total	100	86	14	97	1	1	1

*Mean Salary: \$638

Public Service³

This section contains findings related to the employment of graduates completing public service programs in law enforcement and nursery school assisting. The total number of respondents in public service technologies was 36.

Law Enforcement

1. Fifteen graduates responding to the questionnaire had completed Cuyahoga Community College's law enforcement curriculum. Of the 15 respondents, 13 graduates or 87 percent were employed full-time.

2. Two-thirds of the respondents indicated that their training was absolutely necessary for or of some assistance in obtaining their present employment.

3. The mean salary of the 13 full-time employees is \$600 per month; salaries range from \$230 to \$830 per month.

4. According to the respondents, the most valuable courses taken at Cuyahoga Community College were: all law enforcement courses (7), criminal law courses (4), law of evidence (2), patrol procedures (2), sociology (2), speech (2), typing (2), psychology (2), and political science.

5. Courses cited as least valuable were math and art.

6. Comments offered by the law enforcement graduates include: "More psychology courses," "A first aid course," "Foreign languages," "A police report-writing course," "A shorthand course," "More university

³Library technology has been omitted from the public service career since only one out of eight library technology graduates responded to the questionnaire.

parallel courses," and "More sociology courses in urban situations."

7. The following organizations employ either part-time or full-time graduates of the law enforcement curriculum:

Cleveland Police Department (3)*
2001 Payne
Cleveland, Ohio

East Cleveland Police Department
14340 Euclid
East Cleveland, Ohio

Police Department
207 North Main Street
Orrville, Ohio

John Carroll University
North Park & Miramar
Cleveland, Ohio

Kent State University
Kent, Ohio

Cleveland Public Library
325 Superior Avenue
Cleveland, Ohio

City of Brecksville
49 Public Square
Brecksville, Ohio

Policy Academy
City of Cleveland
2341 Carnegie
Cleveland, Ohio

Lakewood Police Department (3)*
12650 Detroit Avenue
Lakewood, Ohio

City of Cleveland
2001 Payne Avenue
Cleveland, Ohio

Parma Police Department
5750 West 54th Street
Parma, Ohio

*Figures listed after company name indicate number of graduates employed with the firm.

TABLE 10
 PLACEMENT - CAREER PROGRAM GRADUATES
 LAW ENFORCEMENT

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso- lutely Necessary	Some Assist- ance	No Relation- ship	No Reply
Captain	1	\$830			x		
Patrolman	1	\$784				x	
Patrolman	2	\$750			x	x	
Police Trainee	2	\$700			x	x	
Police Woman	1	\$610			x		
Patrolman	1	\$600		x			
Patrolman	1	\$560		x			
Police Cadet	1	\$480		x			
Police Cadet	2	\$400		2			
Clerical Aide	1	\$230				x	
Sergeant	1		NR	x			
Student Assistant	1		NR			x	
Totals	15	13	2	6	4	5	0
Percent of Total	100	87	13	40	27	33	0

*Mean Salary: \$600

Nursery School Assistant

1. Twenty-one respondents indicated that they had completed the nursery school assistant curriculum at Cuyahoga Community College. Of the 21 respondents, 17 graduates (81 percent) were employed full-time.

2. Eighteen graduates or 86 percent of those responding indicated that their training was absolutely necessary for obtaining their present employment. Only two graduates, or nine percent, indicated there was no relationship between their training and their present employment.

3. The mean salary of the 17 nursery school assistant graduates employed full-time is \$409 per month with a range of \$300 to \$500 per month.

4. A significant number (12) of the nursery school assistant graduates felt that all their nursery school courses were of the greatest value to them. Other courses of value listed by nursery school graduates were: psychology (4), student teaching (4), sociology (3), education courses (3), art (2), and science (2).

5. The courses felt to be of least value were biology (3) and history (2).

6. Five graduates cited a need for more psychology, while two indicated a need for more music appreciation courses. Other comments included, "Math for kindergarten children," "More courses like child management," "More nursery school observations," and "More nursery education courses."

7. The following organizations employed either part-time or full-time graduates of the nursery school curriculum:

Society for Crippled Children (2)*
10100 Buckeye
Cleveland, Ohio

True Sisters (3)*
Fairmount Blvd. & Lee Road
Cleveland, Ohio

West Side Community House
3000 Bridge Avenue
Cleveland, Ohio

Bingham Day Care Nursery
2909 Central
Cleveland, Ohio

Kingsley House Day Nursery
910 Richard
New Orleans, Louisiana

Taylor Road Synagogue Nursery School
Taylor Road
Cleveland, Ohio

Music School Settlement
Magnolia Drive
Cleveland, Ohio

Jewish Community Center of Cleveland
3505 Mayfield Road
Cleveland, Ohio

Harvard Community Services Day Care Center
18240 Harvard Avenue
Cleveland, Ohio

Cleveland Christian Home
11401 Lorain Avenue
Cleveland, Ohio

University Hospitals
2065 Adelbert Road
Cleveland, Ohio

Cleveland Metropolitan Hospital
3395 Scranton Road
Cleveland, Ohio

Cuyahoga Heights Elementary School
4880 East 71st Street
Cleveland, Ohio

Lakewood Day Nursery
2070 Dowd Avenue
Lakewood, Ohio

Cleveland Board of Education
Scranton Elementary School
Cleveland, Ohio

*Figures listed after company name indicate number of graduates employed with the firm.

TABLE 11
 PLACEMENT - CAREER PROGRAM GRADUATES
 NURSERY SCHOOL ASSISTANT

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso- lutely Necessary	Some Assist- ance	No Relation- ship	No Reply
Teacher	2	\$500		2			
Teacher - Child Development	1	\$500		x			
Child Life Worker	1	\$450		x			
Assistant Head Teacher	1	\$425		x			
Teacher	1	\$421		x			
Teacher	1	\$416		x			
Nursery School Teacher	1	\$412		x			
Nursery School Teacher	1	\$400		x			
Teacher	3	\$400		3			
Teacher Aide	1	\$400		x			
Nursery School Teacher	1	\$350		x			
Teacher	1	\$350				x	
Preschool Teacher	1	\$327		x			
Nursery School Teacher	1	\$300		x			
Homemaker	1		NR				x
Nursery School Teacher	2		1-NR 1-PT	2			
Nursery Assistant	1		NR			x	
	21	17	4	18	0	2	1
Percent of Total	100	81	19	86	0	9	5

*Mean Salary: \$409

Technical and Related Careers

Findings related to graduates who completed technical and related career programs are contained in this part of the study. There were 45 respondents who completed building construction technology and electronic technology programs.

Building Construction Technology

1. Nine respondents completed the building construction technology curriculum at Cuyahoga Community College. Two-thirds are employed full-time.

2. Five graduates or 56 percent of the respondents indicated that their training was absolutely necessary for obtaining their present employment.

3. Salaries range from \$450 to \$912 per month; the mean salary of the six full-time employees is \$631 per month.

4. Drafting and drawing, surveying, construction procedures, and math were courses listed as most valuable.

5. The courses cited as least valuable were economics and music appreciation.

6. Two respondents commented that any civil engineering course would have been helpful. Other comments included: "More calculus courses," "More extensive business technology courses," and "More design and rendering courses."

7. The following organizations employed these graduates either part-time or full-time:

Turner Construction Company
100 Erieview Plaza
Cleveland, Ohio

Sam W. Emerson Company
1836 Euclid Avenue
Cleveland, Ohio

Ward and Schneider
1720 Euclid Avenue
Cleveland, Ohio

Howard Needles, Tammen & Bergendoff (2)*
One Erieview Plaza
Cleveland, Ohio

Forest City Material Company
10800 Brookpark Road
Cleveland, Ohio

City of Akron
Department of Planning
Akron, Ohio

*Figures listed after company name indicate number of graduates employed with the firm.

TABLE 12
 PLACEMENT - CAREER PROGRAM GRADUATES
 BUILDING CONSTRUCTION TECHNOLOGY

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Abso- lutely Necessary	Some Assist- ance	No Relation- ship	No Reply
Architectural Designer	1	\$912		x			
Assistant Superintendent	1	\$775		x			
Civil Engineer	1	\$550		x			
Engineering Technician	2	\$550		x			x
Architectural Draftsman	1	\$450		x			
**SP-5, United States Army	1		NR				x
Warehouseman	1		PT			x	
Unemployed	1		NR				x
Totals	9	6	3	5	0	1	3
Percent of Total	100	67	33	56	0	11	33

*Mean Salary: \$631

**In military service and not included in mean salary

Electronic Technology

1. Twenty-five respondents completed the electronic technology curriculum at Cuyahoga Community College. Of the 25 respondents, 20 graduates or 80 percent were employed full-time.

2. Eighty-eight percent of the respondents indicated that their training was absolutely necessary for or of some assistance in helping them obtain their present employment.

3. The mean salary of the 20 electronic technology graduates employed full-time is \$617 per month. The salaries range from \$500 to \$800 per month.

4. Electronic technology graduates listed electronics, English, math, computer circuitry, basic electronics, physics, AC and DC circuits, semi-conductors and all technical or major courses as most valuable.

5. Courses suggested as being least valuable were English, health, government and history.

6. Comments offered by the electronic technology graduates include: "More transmission and electrical power courses," "More lab work," and "More math and courses in electronic integrated circuits."

7. The following organizations employed on a part-time or full-time basis graduates of the electronic technology curriculum:

Cleveland Electric Illuminating Company (7)*
55 Public Square
Cleveland, Ohio

Lear Siegler Inc.
17600 Broadway
Cleveland, Ohio

Reliance Electric
24703 Euclid Avenue
Cleveland, Ohio

Picker Instruments
1020 London Road
Cleveland, Ohio

General Electric
Nela Park
Cleveland, Ohio

Sound Signal Systems
14300 Madison Avenue
Lakewood, Ohio

Firestone Tire & Rubber Company
1200 Firestone Parkway
Akron, Ohio

Bunker-Ramco Corporation
Alpha Drive
Highland Heights, Ohio

United States Post Office
Main Division
West 3rd & Prospect
Cleveland, Ohio

IBM Corporation
777 Rockwell Avenue
Cleveland, Ohio

Bailey Meter Company
29801 Euclid
Wickliffe, Ohio

A.P.I. Instrument Company
11655 Chillicothe
Chesterland, Ohio

Co. C. 43rd Sig. Bn.
APO S.F. 96499
U.S. Army

U.S. Army - Signal Corp (2)*
(1) Graduate is enroute to
Korea or Vietnam - No address yet

*Figures listed after company name indicate the number of graduates employed with the firm.

TABLE 13
 PLACEMENT - CAREER PROGRAM GRADUATES
 ELECTRONIC TECHNOLOGY

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Mail Processing Equipment Mechanic	1	\$800				x	
Student Engineer	1	\$725			x		
Engineering Technician	1	\$676		x			
Engineering Technician	1	\$675		x			
Engineering Assistant	1	\$650		x			
Customer Engineer	1	\$630		x			
Engineering Aide	1	\$630		x			
Electronics Technician	1	\$622		x			
Engineering Aide	1	\$620		x			
Electronics Technician	2	\$600		2			
Electronic Tester	1	\$600		x			
Junior Electrical Tester	1	\$600		x			
Engineering Design Technician	1	\$575		x			
Systems Designer	1	\$575		x			
Electronics Technician	1	\$520			x		
Electronics Technician	1	\$510		x			

- Continued -

TABLE 13- Continued

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Installer	1	\$500		x			
**Electrical Technician	1	\$273				x	
**Sgt. in United States Army	1	\$260				x	
Communications Technician	1		NR		x		
Engineering Aide	1		NR		x		
Junior Engineering Aide	1		NR	x			
Senior Engineering Technician	1		NR		x		
Unemployed	1		NR	x			
Totals	25	20	5	17	5	3	0
Percent of Total	100	80	20	68	20	12	0

*Mean Salary: \$617

**Recruited into military service and thus not included in mean salary

Industrial Supervision

1. Two respondents completed the industrial supervision program at Cuyahoga Community College. Both were employed full-time.
2. Both graduates indicated that their training was absolutely necessary for or of some assistance in obtaining their present employment.
3. The mean salary of the two industrial supervision graduates is \$745.
4. Courses cited as most valuable to the two graduates were time study courses and all management courses.
5. Safety and transportation courses were cited as least valuable.
6. Both graduates commented that they would have appreciated courses in insurance, cost estimating, and industrial engineering.
7. The following organizations employed industrial supervision graduates on a part-time or full-time basis:

Warner & Swasey
East 55th & Carnegie Avenue
Cleveland, Ohio

University School
20701 Brantley
University Heights, Ohio

TABLE 14
 PLACEMENT - CAREER PROGRAM GRADUATES
 INDUSTRIAL SUPERVISION

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Director - Technical Services	1	\$850			x		
Rate Setter	1	\$640		x			
Totals	2	2	0	1	1	0	0
Percent of Total	100	100	0	50	50	0	0

*Mean Salary: \$745

Mechanical Technology

1. Nine graduates responding to the questionnaire had completed the mechanical technology curriculum. Of the nine respondents, six graduates or 67 percent were employed full-time.

2. Two-thirds of the respondents indicated that their training was absolutely necessary for or of some assistance in obtaining their present employment.

3. The mean salary of the six full-time employees is \$530 per month. The salaries range from \$400 to \$650 per month.

4. The most valuable courses taken at Cuyahoga Community College according to the mechanical technology graduates were all of their courses and all mechanical technology subjects.

5. The courses listed as least valuable were history and political science.

6. The following organizations employed graduates of the mechanical technology program either part-time or full-time:

Nas Olathe
Olathe, Kansas

Weldon Tool Company
3000 Woodland Road
Cleveland, Ohio

W. Vance Middough & Associates
1367 East 6th Street
Cleveland, Ohio

Bailey Meter Company
29801 Euclid Avenue
Wickliffe, Ohio

Cleveland Twist Drill (2)*
4700 Lakeside
Cleveland, Ohio

Kent State University
Kent, Ohio

Bethlehem Steel Corporation
11288 Alameda Drive
Strongsville, Ohio

* Figures listed after company name indicate number of graduates employed with the firm.

TABLE 15
 PLACEMENT - CAREER PROGRAM GRADUATES
 MECHANICAL TECHNOLOGY

Job Title	No.	Salary*		Training Necessity			
		Full Time	Part-Time or No Reply	Absolutely Necessary	Some Assistance	No Relationship	No Reply
Product Design Technician	1	\$650			x		
Detail Draftsman	1	\$550			x		
Lab Technician	1	\$550			x		
Apprentice	1	\$500				x	
Draftsman	1	\$400				x	
**Naval Recruit	1	\$151			x		
Computer Operator	1		NR	x			
Student	2		2-NR	x			x
Totals	9	6	3	2	4	2	1
Percent of Total	100	67	33	22	45	22	11

*Mean Salary: \$530

**In military service and not included in mean salary

IV - CONCLUSION

Hopefully, the data presented in this study will help to answer the question posed earlier: how well is Cuyahoga Community College preparing the Associate in Science graduate for the career he has selected? Data provided by the graduates themselves has indicated type of employment, salary information, and the graduates' opinions of Cuyahoga Community College curricula and its relationship to employability. The numbers of respondents to the survey, classified by career area, were the following: business careers (73), health occupations (186), public service (36), and technical and related careers (45). The greatest number of respondents by curriculum area was in health occupations, of which 149 were nursing graduates.

Salary comparisons indicate that in the business career area business management had the highest mean salary of \$712 per month. This \$712 figure is possibly skewed by one graduate in this field who is earning a monthly salary of \$1,800, where he is a vice-president of a local retailing firm. In most of the business career programs, that is accounting, business management, data processing and retailing, the graduates averaged about \$650 per month, with secretarial science averaging \$463 monthly and transportation averaging \$560 monthly being considerably lower.

In the health occupation area the highest mean salary was realized by those graduates of the dental hygiene program. Twenty-five dental

hygiene graduates responding to this survey indicated a mean salary of \$674 per month. This figure was followed closely, however, by the nursing graduates who revealed a mean salary of \$638 per month. The medical assisting graduates' mean salary of \$423 per month was very near to that of the secretarial science graduates.

The public service technologies showed a greater variation in mean salaries. The law enforcement graduates in this study had the highest mean salary of the public service technology graduates. Their average monthly salary of \$600 was considerably higher than that of the nursery school graduates who average \$409 monthly.

In the area of engineering technology there was a consistency of high monthly salaries. Graduates of the industrial supervision curriculum at Cuyahoga Community College experienced the highest mean salary per month in the engineering technology area. The average monthly salary for the two graduates in industrial supervision is \$745. Building construction technology graduates were next in earnings at an average of \$631 per month. This was followed by electronic technology (\$617 per month) and mechanical technology (\$530 per month).

it can be observed from the foregoing review of salaries that there is a significant variation between salaries of graduates depending upon the career program that was completed at Cuyahoga Community College. This difference, however, also appears within the categories of career areas, that is business careers, health occupations, public service and engineering technologies, and cannot be directly related to any group of these programs. For that reason no attempt is made to analyze the mean salaries by career program

categories. It was determined, however, that the overall mean salary for all graduates responding to this study is \$606 per month.

In terms of the graduates' opinions about most and least valuable courses, the study indicates a certain consistency in their responses that transcends differences in curricula. Usually responses to this question relate directly to the graduates' own area of preparation; in this case, however, there seemed to be a correlation between some of the courses and the graduates' belief about their value in all career areas. For example, 37 respondents listed psychology as one of their most valuable courses. An additional 16 respondents listed English to be of value to them. An interesting finding shows that 15 respondents indicated that all courses were most valuable to them.

For least valuable courses cited, a consistency again developed regardless of the curriculum in which the graduate was enrolled. The greatest number of graduates (41) indicated that "no courses" were of least value to them. However, an additional 31 respondents indicated that history and social science were least valuable, followed by 23 respondents who indicated that English was their least valuable course taken at Cuyahoga Community College.

In an open-ended question graduates were asked to indicate any suggestions for improving the career programs that they felt would be of value to the academic college community. Again, the largest number of comments concerned additional psychology courses. Many respondents commented that Cuyahoga Community College was one of the greatest things that had ever happened to them and that they were very happy to have received a degree. Several graduates indicated that

they were presently attending four-year colleges. Additional respondents indicated that they desired more transferrable courses and more information on what courses could be transferred. Specifically, several respondents indicated that they would have liked more work in data processing, that Cuyahoga Community College has a very good nursing program, and that more courses in sociology are needed. Four respondents indicated that Cuyahoga Community College was very helpful to them in their obtaining a good job. Four other respondents were listed as servicemen in Vietnam.

When asked to indicate the necessity of their training for their present job, 73 percent of the respondents to this questionnaire indicated that the training received was absolutely necessary in retaining their present job. An additional 14 percent said that the training was of some assistance. Summarily, 87 percent of the respondents in this study indicated that the training received at Cuyahoga Community College was absolutely necessary for or of some assistance in obtaining and retaining their present job.

An analysis of the graduates' employers indicates that a large majority of the respondents who graduated from career programs at Cuyahoga Community College are employed locally. The data shows that 82 percent of the respondents surveyed in this study are employed by organizations in the Cleveland area.

Thus, it can be concluded that the graduates of the career program at Cuyahoga Community College are successful in obtaining employment in the fields for which they received their training and are employed at a mean salary of \$600 per month or \$7,200 per year. The majority

feel that their training is absolutely necessary for their employment and most of the graduates are employed by Cleveland area organizations. Although there is a wide diversity of needs and interests, most of the respondents feel that their course work was relevant to their training; however, they also feel that modifications and additions to present curricula should be considered.

APPENDIX

Office of Institutional Research and Studies
Cuyahoga Community College
2123 East Ninth Street
Cleveland, Ohio 44115

Postage Permit

CUYAHOGA COMMUNITY COLLEGE
Office of Institutional Research and Studies
2123 East Ninth Street
Cleveland, Ohio 44115

Dear Former Student:

We at CCC are extremely interested in the success of our students after leaving our college. Our records show that you attended CCC in one of our career preparation programs. In order that we may assist other students in similar programs, we are asking that you provide us the information requested on the attached postcard. Your cooperation on this matter will greatly benefit CCC and future students. You may return the attached postcard after completion by depositing in any mailbox. Thank you for your time and efforts in completing this form.

Cuyahoga Community College
2123 East Ninth Street
Cleveland, Ohio 44115

To the Former Student: Please complete the following questions to the best of your knowledge.

1. In which career program were you enrolled at CCC? _____
2. What is your present job title? _____
3. What course or courses in your career program are of least value to you in your job? _____
4. What course or courses in your career program are of greatest value to you in your job? _____
5. To what extent did your career program at CCC assist you in obtaining your present job?
 1. _____ Absolutely necessary
 2. _____ Of some assistance
 3. _____ No relationship
6. What is your present monthly salary? _____
7. What is the name and address of the company for which you work?

8. List any additional courses which would have been beneficial to you or any additional comments you care to make. _____

Career Questionnaire
7-30-69

Name _____
Last (Maiden) First
Address _____
