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ABSTRACT

As part of a continuing series of studies conducted at Delaware County Community College since 1974, this Information Exchange Procedures study presents direct and full costs per full-time equivalent (FTE) enrollment in broad instructional areas. unit costs per credit hour by discipline and by program, program full costs per student credit hour, as well as comparisons of direct costs for instructional, administrative, and support areas for 1974/75-1976/77. Study results indicated occupational programs had significantly higher direct and full costs per FIE; disciplines with the lowest average section size, such as French, Spanish, and respiratory therapy generally had higher direct cósts per credit hour; and more accurate allocation of full costs produced significantly lower full costs per credit hour for fire science technology, liberal arts, and engineering and higher costs for clerical studies, nursing, and respiratory therapy. Significant increases in direct costs for occupational and general programs could have resulted from allocating student wages and carital costs, itemized separately in 1974/75 and 1975/76, to other categories in 1976/77. Total regular/instruction direct cost per credit hour increased from 18.51 in 1975/76 to 22.42 in 1976/77. (Author/TR)

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DELAWARE COUNTY COMMUNITY COLLEGE



INFORMATION EXCHANGE PROCEDURES FOR FISCAL 1976-77

AND

COMPARISONS OF IEP DATA FOR 1974-77

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S. Dock H. Morris

June 1978

OFFICE OF MANAGEMENT SYSTEMS, PLANNING AND RESEARCH



TABLE, OF CONTENTS

Introduction	·i
IEP Terminology.	ii
Highlights	ii
PART I - 1976-77 Information Exchange Procedures	•
Direct and Full Cost Summary	. 1
· Direct and Full Cost Per FTE	3
Unit Cost by Discipline	4
Unit Cost by Program	5
Rank Order of Disciplines by Direct Cost	6
Program_Full Cost Per Student Credit Hour	7
PART II - Comparisons of IEP Data for 1974 to 1977	. RF
Comparison of Direct Cost by PCS Activity	. 8
Comparison of Direct Unit Costs for DCCC Disciplines	10
Comparison of Direct Unit Costs for DGCC Programs	11

INTRODUCTION

The <u>Information Exchange Procedures</u> (IEP) are a set of cost-study techniques which enable a college to examine its expenditures for instructional and support services, disciplines, and curriculums in an objective manner which provides comparable information from one year to the next.

The cost information developed through IEP is intended to be used as a "management tool" for monitoring and improving efficient use of resources.

Delaware County Community College (DCCC) has conducted an IEP study for the past three years. Each year we have improved the methodology used to allocate full costs. This year's IEP study was able to allocate full costs on more of an actual usage basis.

Office personnel will continue to refine the cost study process and will work with College managerial personnel to analyze and use the results of the study.

The following pages present DCCC's IEP data for the 1976-77 fiscal year as well as comparisons of the past three years'

IEP data.

IEP TERMINOLOGY

Primary Cost Centers - areas that provide services directly related to the primary mission of the College.

Support Cost Centers - areas that provide supporting services.
of primary cost centers (e.g., Library, Business
Office, Admissions/Records, etc.).

Direct Cost - Cost directly related to providing services through departments (e.g., salaries, supplies, fringe benefits, duplicating, postage, and telephone costs).

Indirect Cost - the direct cost of operating the support cost centers. In cost accounting, these costs are allocated or prorated across primary cost centers based upon actual usage parameters (e.g., square footage assigned to biology labs, number of purchase orders processed for drama). This year's study prorated the following actual usage parameters:

Capital \$ # Telephones
Purchase Orders # Full-time Employees
Vouchers # part-time Employees
* Coadjutant Salaries
* Copies * Contracted Printing Average Class Size

Full Cost - the sum of direct cost and allocated indirect cost. of support services.

Unit Cost - a computed figuré showing the average cost to produce a credit hour taught.

Funding Sources - an IEP cost study includes all funds expended by the College including federal and state grants and independent operations.

HIGHLIGHTS

- 1. Direct and full cost per FTE support the hypothesis that occupational programs have a significantly higher cost than any other College programs (page 3).
- 2. This year's IEP includes separate direct and full cost figures for Continuing Education, Avocational, Volunteer, and the Police and Security Academies (page 3).
- In general, those disciplines with the lowest average section size have the higher direct costs per credit hour (page 4).
- 4. Some disciplines which have a relatively low direct cost per credit hour have a high full cost per credit hour due to dedicated space, number of items purchased, etc. (e.g., drama, biology) (page 4).
- 5. The more accurate allocation of full cost for 1976-77 has produced some significantly lower full costs per credit hour for Fire Science Technology, Liberal Arts, and Engineering and a significantly higher full cost per credit hour for Clerical Studies, Nursing, and Respiratory Therapy (page 7)
- 6. The 1976-77 direct expenditures for Academic Administration and Executive Management are significantly higher due to inclusion of AIDP funded activities (pages 9, 10).
- 7. The direct expenditure for Public Relations is much lower for 1976-77 since the costs for Contracted Printing were allocated back to the actual users.
- 8. For 1976-77 Student Wages and Capital Costs were allocated back to other activity centers as part of direct cost.

 This may account for the significant increase in the direct cost for the occupational and general programs (pages 9, 10):
- 9. The total regular instruction direct cost per credit hour; has increased from 18.51 in 1975-76 to 22.42 in 1976-77.

PART I

<u>INFORMATION EXCHANGE PROCEDURES</u>
FOR 1976-77

DIRECT AND FULL COST SUMMARY

Activity Center	•	Direct Cost	, ,	Full Cost
1.0 INSTRUCTION	*		•	•
1.1 College & University Parallel 1.2 Occupational & General 1.3 Community Education SUBTOTAL 3.0 PUBLIC SERVICE		1,262,807 1,031,121 182,619 2,476,547		2,953,459 2,424,659 400,149, 5,778,267
3.2 Cultural Program		32,623	<i>)</i> :	84,818 84,818
4.0 ACADEMIC SUPPORT	•	•	۴ ,	P
4.1 Library 4:31 Media Services 4.32 Learning Center 4.6 Academic Administration 4.61 Educational Services Administration 4.62 Continuing Education Administration 4.4 Computer Support SUBTOTAL		165,612 183,506 30,010 224,683 88,421 118,830 46,955		
5.0 STUDENT SERVICE	•	···		
5.1 Student Personnel 5.2 Student Activities 5.31 Counseling 5.32 Career Center 5.5 Student Support 5.6 Intercollegiate Athletics SUBTOTAL		52,520 111,682 199,109 96,171 115,818 3,548	•	344,415 38,107 382,522

6.0 INSTITUTIONAL SUPPORT

6.1	Executive Management	4	
6.13	Institutional Research		
6.2	Fiscal Operations 🖫 😁	,	•
6.3*	General Administrative Servi	ices	
6.4	Logistical Services		
6.5		٠	
6.7		•	
6.8	Admissions & Records	4	
SUBT	OTAL ,		
,	• • • • • • • • • • • • • • • • • • •	•	

444,123 49,574 221,863 362,658 208,136 787,171 21,918 204,129 2,299,572

TOTAL ·

6,245,607

6,245,607

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12/78

DIRECT AND FULL COST PER FTE 1976-77 FOR 1.0 SUBPROGRAMS

SUBPROGRAM	<u> F74</u>	DIRECT COST/ FTE	FTE.
1.1 College & University Parallel	2528	499.52	1168, 29
1.2 Occupational .	1280	805.56) 1894:26
1.31 Volunteer		156.83	375.76
1.32 Continuing Education	96	672.33	1701.11
Police & Security Academies	, • 95	557,71	1230.61
1.33 Avocational		495.98	957.22
TOTAL College Average	4208.	586.58	1368.00

UNIT COST BY DISCIPLINE 1976-77

		• • • • • • • • • • • • • • • • • • •	AVERAGE		• ,			-	•		
	HEGIS	,	<pre> > SECTION</pre>	DIRECT	•	CREDIT	· 🔊 ,	TRECT' COST/	* *	FULL COST/	
ď	CODE	DISCIPLINE NAME	SIZE	COST	•	HOURS		REDIT HOUR		CREDIT HOUR	
	•					10010	> <u>=</u>	REDIT HOUR		CKEDLI HOUR	
	0401	Biology '	22.4	131, 648	-	5,420		24.28	,	60.12	
4	0502 •	Accounting	29.3	, 131,688		6,204		21.22		47.73	
	`05Ω6	Business	31.9	146,831		5,679	•	25,85.	.•	54.59	•
	0801	Education	38.8	3,776		· 585	- ,	6.45	_	18.32	
	0835	Physical Education		2,606	à,	• 136	,	19.16		43.32	, (
	1001 . \	Art	· 23.7 ·	42,492	. (130	•	22.06	•	* 85.62	•
	1006	Music	30.0 °	23,2565		960	, ;	24.22		68.13	
	1007	Drama	`28.5	20,481	~	437	•	46.86		132.39	
	1102	French	17.4	11,441		261	'	43.83	* ,	8 % 39	٠
	1105	Spanish _ \square	18.8	20,629		450		45.84	, -	91.68	
	1501-	English	23.9	443,463		18,426	•	24.06		52.87	
	1509 ,	Philosophy	33.5	19,293		1,710	•	11.28		27.81	
	1701	Mathematics	24.9	220,105		12,409	2	17.73		39.66.	
	1901	Physical Science	22.0	54,171.	*	2,602	٠,	20.81		52.18	
	1905	Chemistry .	26.1 .	78,037		3,220		24.23		61.34	•
į	2001	Psychology.	33.7	111,665		8,508	•	13.12		31.10	•
	2204	Economics	33.4	26,188		1,704	•	15.36		35.41	•
'	2205 •	History *	34.6	120,256	,	7,308.		16.45	•,	37 × 38 .	,
	. 2 2 07.√	Political Science	31.5	·59,012		2,562	, •	23.03		49.49	
	2208	Sociology	28.9	87,430		5,148	:	16.98		38.29	
	4903	Humanities.	30.4	9,122		822	•	11.09		. 26.81	
-	5005	Secretarial	20, 2	85,962		2;210	•	38.89	•	114.69	
`,	5010,	Hotel/Restaurant	20.7	, 28, 881	. 🛶	865	•	22.28	, ,	70.64	
•	5101	Data Processing	-31.2	⁻ 53,028	7	2,990		17.73	•	49.33	
	5208	Nursing	26.14	169,357	•	2,419		70.01		151.03	
	5215	Respiratory Therapy	7.5	17,670	• .	258	4 .,	68.48		148.09	
,	′5399 ·	Applied Technology	<u>-18.1</u>	71,390		1,979	" · "	36.07	•	97.29	
	5503	Early Childhood Education	30.3	26,224		1,423		18.42		41.28	
	• <u>5</u> 505 -	Administration of Justice	30.2	74,239		2,838		26.15		56.15	
	3507	Fire Science Technology	31.5	3,574		378	,	9.45	•	24.70	
-		Volunteer,	4	.24,309		3,720		6.53	. 1	15.65	,
	•	Continuing Education -		131,527	•	4, 920	•	26.73		58.98	_
	•	Avocational		26,7834		1,298	•	20,63		39.82	
	•		🦸	,	,	•	,	,			
	TOTAL .	- · · · · · · · · · · · · · · · · · · ·	•	2,476,547	, Y .	117,775)	21.02		49.06	
חי	,		•	7	-,			;	•	-12 + 00	1

14

UNIT COST BY PROGRAM 1976-77

- CÓDE	PROGRAM NAME		CREDIT HOURS	DIRECT		DIRECT COST		FULL COST		FULL COST/ CREDIT HOUR
			,,			CKEDII MOQI	<u>`</u>	TOBE COST		CKEDII HOOK
000	Undecided		741	15,566		20.98		36,463		49.11
010	Business Administration		19,039	389,479	•	20.45	`e.	891,991		46.85
015	· Liberal Arts		30,327	620,061		`20.44		1,462,150		48.21
018	Engineering		2,752	60,445		21:96	, •	147,399		5-3.56
. 024	Natural Science		7,825	165,016		21, 08	~	393,078	•	50.23
125	General Education		7,156	148,095		20.69		352,191		49.21
- 150 ~	Business Management	*	2,667	58,348	•	21.87		134,417		50.40
152	Clerical Studies		209	6,080		29.09		16,266		77.83
153	Data Processing		3,900	82,497	•	21.15		198,845		50.98
156	Administration of Justice		5,832	132,702		22.75		299,180	•	51.29
157	Fire Science Technology	÷	` 450	6,725	•	14.94	•	16,292		36.20
159 .	.Early Childhood Education	, ·	3,501	62,765	. 🖊	17.92		152,870	• `	43.66
160	Nursing.		4,069	197,930		48.64		433,895		106.63
161	. Retail Management .	•	1,691	38,771		22.92		88,108		52.10
162	Executive Secretarial		1,901	52,366		27.54		139,959		73.62
164	Respiratory Therapy .	• ,	458	. 20,232	_	.44.17		44,888		98.00
165	Hotel/Restaurant Management	•	2,309	57,992	ζ,	25.11		130,301		56.43
166	Applied Technology		2,755	66,426	·	24.11	•	173,369		62.92
167	Accounting		2,800	60,132	-	21.47	-	138,326		49.40
· 168	Legal Secretarial .		1,452	39,986		27.53		105,598		72:72
			, ~,	• ,				,		
7	· (`~		•		,				,
TOTAL	and the second s	***	101,834	2,281,625		- 22.40		5,355,597		52.52
	•	č	•	. ,				. , ,		

· · · · ·

10

12/7

RANK ORDER OF DISCIPLINGS BY DIRECT COST FOR 1976-77

RANK DISCIPLINE	<i>.</i>	DIRECT	COST/CREDIT	HOUR
		£ , , , , , , , , , , , , , , , , , , ,	^	
1 Nursing			70.01	
Respiratory Therapy 3 Drama			6 8 . 48	
		•	46.86	
\$4 Spanish			`45.84	
5 French	•	b	43.83 🔪	
5 French 6 Secretarial 7 Applied Technology 8 Hotel/Restaurant 9 Continuing Education	•		38.89	
7 Applied Technology	•		36.07 🚶	
<pre>8 Hotel/Restaurant</pre>	,		33.38	*
- 1			26. <i>7</i> 3	•
10 Administration of Jus	sticé ,	•	26.16	
11 Business		•	25.85	
12 Biology			24.28	
13 Chemistry	_	•	24.23	
14 Music	•	.,	24.22	
15 English		•	24.06 * ·	
16 Political Science		•	23.03	
17 Art	•		22.06	
18 · Accounting ·		****	21.22	
19 Physical Science			20.81	*
' 20 Avocational	•		. 20.63	
21 Physical Education			19.16	
22 . Early Childhood Educa	ition .	•	18.42	,
23 Mathematics			1773 .	
№23 Data Processing	,		17.73	•
24 Sociology		,	16.98	
25 History	•	٠ -	16.45	.,
26 Economics .			15.36	
27 Psychology	•		13.12	•
28 Philosophy			11.28.	
29 Humanities ,	•		11.09,	
<pre></pre>	. "	•	6.53	
31 Education			6.45	•
			•	

PROGRAM FULL COST PER STUDENT CREDIT HOUR

· / * .	•	74-75	75-76	76-77-
74-75		FULL	' FULL	FULL
RANK	PROGRAM	COST	COST	COST
Idillik	TROCIALI	,	- ' 2001 ',	
1 .	Administration of Justice	41.75	48.62	. 51.29
$\overline{2}$	Accounting	47.46	\ .48.62	49.40
3	Business Administration 5	48.39	47.38	48.21
. 4	Business Management	48.01	51 x 27 ′	50.40
; 5	Fire Science Technology	48.19	53.51	36.20
6 · ·	Undecided	48.39	49.68	49.11
7 ~	Early Childhood Education	48.62	46.73	43.66
8 ,	Data Processing	49.09	49.47	50198
9 `	Retail Management	50.44	50.01	52.10°
10 ′	Liberal Arts * '	50.89	49.4,8	46.85
* 11 · .	Clerical Studies	52.49	49.48	`77.83 <i>°</i>
12	General Education	53.43	51.27	49.21
13	Natural Science	55.99	· 52.40	50.23
14	Hotel/Restaurant Management	56.33	63.14	56.43
15	Applied Technology,	56.87	61.64	62:92
16		59.37	60.73	73.62
17	Executive Secretarial	·59.48	61.32	72.72
18	Engineering ,	61.40	52.86	53.56
. 19	Respiratory Therapy	89.38	82.01	98.01
20	Nursing	93, 29	91.74	106.63



PART II

COMPARISONS OF I.E.P. DATA

FOR 1974 to 1977

COMPARISON OF DIRECT COSTS BY PCS ACTIVITY CENTERS 1974-1976

Activity Center	•	Direct Cost 74-75	Direct Cost 75-76	Direct Cost
1.0 INSTRUCTION				
1.1 College & University Parallel 1.2 Occupational & General 1.3 Community Education SUBTOTAL		899,132 438,370 86,829 1,424,331	1,182,989 628,248 109,933 1,921,170	1,262,807 1,031,121 182,619 2,476,547
3.0 PUBLIC SERVICE	1	•		
-3.2 Cultural Program 4.0 ACADEMIC SUPPORT				32,623
4.1 Library 4.3 Instructional Media 4.32 Learning Center 4.4 Computing Support 4.6 Academic Administration 4.7 Course & Curriculum Development SUBTOTAL		108,526 113,723 13,125 - 202,594 27,953 465,921	149,266 176,174 39,803 359,062 100,515 824,821	165,612 183,506 30,010 46,955 431,934
5.0 STUDENT SERVICE 5.1 Student Personnel 5.2 Student Activities 5.3 Counseling & Career Center 5.5 Student Support Services 5.6 Intercollegiate Athletics SUBTOTAL	, -	57,855 30,235 122,090 7,918 19,991 238,089	45,052 133,128 305,174 57,087 25,671	\$2,520 111,682 295,280 115,818 3,548
in the second se		,		

6.0 INSTITUTIONAL SUPPORT

6.1	Executiv	e Management
-----	----------	--------------

- 6.2 Fiscal Operations
- 6.3. General Administrative Services
- 6.4 Logistical Services
- 6.5 Physical Plant Operations
- 6.7 Public Relations
- 6.8 Admissions & Records

SUBTOTAL

9.0 IEP SPECIAL ACCOUNTS

- 9.1 Student Wages .
- 9.3 Capital Cost Building & Grounds
- 9.4 Capital Cost Equipment
- 6.9 General Institutional
- 6.91 Staff Benefits SUBTOTAL

TATOT

	308,453	′. `¬	327,838 / -	493,697	-
	107,892	¥ \	153,464	221,863	
	205,871		2019,002	208,136	6
	280,117	~ ·	320,548 🗽 🚶	362,658	
	552,809		661,674	787,171	•
	39,284		92,390	21,918	
•	108,042		159,028	204,129	
	1,602	, 468	1,915,947	2, 299,	572
	~ (· -		

83,283	8/,	,895	` -
· -	47',	,448	
	183	,296	
158,134	· · · · · ·	- •	
219,843	e	- '	_
. 461,	260	•	318,642

,192,069 5,546,69

6,245,607

JUNIVERSITY OF CALIF. LOS ANGELES

· AUG 11 1978

COMPARISON OF DIRECT UNIT COSTS FOR DCCC DISCIPLINES 1974-75, 1975-76, 1976-77

CLEARINGHOUSE FOR JUNIOR COLLEGES

٠.	ñ	UNIOR COLLEGES				RECT COST	•	DIRECT COST PER SEMESTER	(DIRECT CO PER SEMEST	
HEGIS				COURSE		ÉDIT HOUR	•	CREDIT HOUR		CREDIT HO	
CODE		DISCIPLINE NAME		LEVEL		74-75		75-76		76-77	
		•	•				٠.			·	— , <i>'</i>
0502		Accounting	_	LD		14.13	`	15.07	ر سسه	21.22	
、5505		Administration of Justice	~	LD		11.21	•	16.09	,	26.15	
0506		Business	À	LD	٥	1 3.91		16.79	7	25.85	*
,5101	• ^	Data Processing		LD -	d;	16.29		16.35	·	17,73	
. 55 03		Early Childhood Education		.LD		17.23	•	17.08	•	. 18.42	1 .
2204		Economics	^	LD	,	13.53		14.31		. 15.36	
·08Ò1		Education		LD		16.67	i	, 8.86	•	16.45	
5507		Fire Science Technology	• •	. LD		13.68 \	•	: 20.32		9.46	
2205	-	History	-	LP		12.08	<i>\</i>	13.98		16:45	^
0835	,	Health/Physical Education	: 1	· rp		9.01	\ '	16.79 .	•	19.16	-
· 5010		Hotel/Restaurant Månagement	Ξ `	LD ,	•	24.60		35.62		33.38	
(2207	_	Political Science		LD	_	.17,86	•	13.41	· .	23.03	` .
2001		Psychology		LD	•	11.64		12.50	•	. 13.12	٠,
5005.		Secretarial Science	•	LD	•	31.25	•	30\ 95		38.89	,
2208		Sociology		LD		17.08	9	15.70	•	16.98	
				•	همر ،	,	, ,	•		- ` À	
1001		Art .		LD		19.77	•	21.26	> •	`22.Q6	
1007		Drama		LD	, ,	21.84		37.53		46.86	*
1501	.•	English		LD		´19.71 ´	,	19.06		24.06	
1102		French	,	LD		35.89	•	32.42 .	٠.	43.83	
4903	١,	Humanities .		LD·		11.53	4	<u>*</u> 10.82·		11.09	
1006		Music		LD -	``	24.15	^	77.16	•	.24.22	
1509		Philosophy	(L/D ,		15.77		· 10.82 ·		≟ 1:28	
1105		Spanish -	•	· rb		/18.88		32.42	•	, 🔧 3.84	
•	•	•		١.	,	,		٠.,			
0401	-	Biology	-	LD	· · · ·	20.61		18.26		24.28	
190 <u>5</u>	•	Chemistry	•	LD	(24.85		25.56	t	-24.23	
·1701		Mathematics .	•	LD		19.73		16.74	~	· 17.73	
5208		Nursing		· LD		46.92	•	47.88		70.01	-
1901	•	Physical Science		, LD		20.79		17.55		20.81	
5215,		Respiratory Therapy		LD 1		46.18		42.46		68.48	
5399		Technology		LD		14.51		28.88 7	1	36.07	٠,
3	•					<i>y</i>	<i>t</i> '	/ ·	. 1	30.07	•
led by ERIC		TOTAL COLLEGE AVERAGE		, L	4 .	17.20		, 17.50	7	22.4-2	

COMPARISON OF DIRECT UNIT COSTS FOR DCCC PROGRAMS 1974-75, 1975-76, 1976-77

	76-77	75-76	74-75	,	•	• •
	Direct	Diræt	. Direct	76-77	7,5-76	74-75
Program Name	Cost	Cost	Cost	SCH	SCH	SCH
Undecided	20.98	17:44	16.99	784	3036	10807
Bus. Admin.	3 0.45	16,50	16.65	19048	15058	9751
Lib. Arts.	20'.44	17.536	17.82	30348	≥ 29834 ·	f 23743
Engineering	21.93	18.73	22.62	2755	1986	1209
Nat. Science	21.08	. 18,.54	20.05 .	7825	6302	4173
Gen. Education -	20.69	18.08	19.01	7183	7751.	- 9,73
Bus. Management	21.87	17.36	16.73	2733	æ 2375	2031
Cler. Studies	29.09	20.45	18.83	4 09	272	. 112
Data Proc. ·	21.15	17.35	1,7.32	4035	3140	1568
Admin. Justice	22.75	17.01	14.30	5838	6373	4082
Fire Science	14.94	18.99	18.35	450	350 🏖	198
Early Child Edu.	17.92	16.24	17.11	3501 •	3234	['] 2223
Nursing	48.64	34.50	34.10	• 4069	3828	3181
Retail Mgt.	22.92	17.57	17.76	1796 ·	1457	1042
Exec. Secretary	27.54	22.16	21.34 -	. 1910	2117	1952
Resp. Therapy	44,17	. 20.55	32.59	450	. 552 	. 459!
Hotel/Restaurant	→ 25.11.	22.90	20.14	2402	1840	1578
Applied Tech.	24.11	22:29	'20.68	2773 .	2696	1877
Accounting	21.47	17.01	16.80	2848	2555	· 805
Legal Secretary	27.53	c 21.92	21.83	1455	1408	328
TOTAL	22.42	18.51	19.73	102383	96177	72175