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Position: Student

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Title of Study: A Study of the Distribution and Frequency of Industrial Arts Courses Taken by the Industrial Arts Graduates at Langston

University, 1939-1954

Number of Pages in Study: 40

Under Direction of What Department: Industrial Arts Education

Scope of Study: A brief survey of the beginnings of the industrial arts program at the Colored Agricultural and Normal University is presented in the second chapter of this study. This survey covers quite a span of history. The developments of that period provides a foundation for the industrial arts program of 1927-1954. The third chapter considers the present program in Industrial arts and the directors of the division for this period. Chapter IV depicts by its tables the courses taken by the graduates and the frequency of the courses taken.

A Summary of Findings: The summary tables of Chapter V indicate the distribution of the courses taken by the graduates. Mechanical Drawing, Bench Work and Productive Basis show the highest frequency of the required courses. Of the elective courses, Tailoring, Automobile Mechanics and Shoe Repair are the most popular. Generalization of the required courses is not possible as the need is reflected by surveys made by the department directors. In the instance of elective courses it is felt that the graduate elected those courses which would prove most significant financially during his post-college life.

ADVISER'S APPROVAL

Dew ite Hunt

A STUDY OF THE DISTRIBUTION AND FREQUENCY OF INDUSTRIAL
ARTS COURSES TAKEN BY THE INDUSTRIAL ARTS GRADUATES
AT LANGSTON UNIVERSITY, 1939-1954

# A STUDY OF THE DISTRIBUTION AND FREQUENCY OF INDUSTRIAL ARTS COURSES TAKEN BY THE INDUSTRIAL ARTS GRADUATES AT LANGSTON UNIVERSITY, 1939-1954

By

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Bachelor of Science

Hampton Institute

Hampton, Virginia

1939

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the Oklahoma Agricultural and Mechanical College
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For the Degree of
MASTER OF SCIENCE IN INDUSTRIAL ARTS EDUCATION

1954

#### A STUDY OF THE DISTRIBUTION AND PREQUENCY OF INDUSTRIAL

ARTS COURSES TAXLED BY THE INDUSTRIAL ARTS GRADULTES

AT LANGSTON UNIVERSITY, 1939-1954

MANUTURAL & MEMBRICAL COLLEGE LIBRARY

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MASTER OF SCHENCE IN INDUSTRIAL ARTS EDUCATION
1954

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Special appreciation is herein expressed to my wife, Bernice W. Thompson, for her patience, inspiration, and encouragement throughout the preparation of this report.

A. M. T.

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#### CHAPTER I

#### DITHODICTION

From its establishment, the Agricultural and Normal University had a mechanical curriculum. The first catalogue of the institution for the year 1898-1899 validates this fact. The mechanical curriculum was divided into three areas: engineering courses leading to a degree, industrial arts courses leading to a degree, and a trade course which offered a diplom. There is no available evidence of early graduates from ongineering or industrial erts; however, it may be assumed that diplomas were granted in the trade courses. The materials, equipment, housing, and faculty, from a research point of view, were adoquate for the conduct of a mechanical curriculum and were expanded yearly. By 1927 E. A. Miller (1) was called in to organize an industrial arts course that would meet the need of the varying students demands or requests. The new curriculum was also to lead to the degree of Bachelor of Science. Miller, a graduate of Pennsylvania State College, had proven himself capable end worthy of filling the task through his previous experiences of six years of practical industrial work at the Jones and Laughlin Steel Corporation, Pittsburgh, Pennsylvania, teaching in secondary schools in North Carolina and at Virginia State College, and Tuskegee Institute.

The new position proved to be a challenge and opportunity to organize and administer a needed program. A roview of the courses taken by the graduates of the Agricultural and Hornal University, later named Lengston University, will show justification and diversification. It is worthy to note in this connection that many students accumulated sufficient theory and practice in a single shop subject as would provide an adequate background for earning a livelihood. The creation of this opportunity is a credit to Miller's farsightedness in keeping with preparing an offering to meet the need of the varying students demands or requests. The director of the Mechanic Arts Department for the years 1931-1936 was L. Gude. During this period, criteria, educational standards and the recording and keeping of records as were pertinent to the department were neglected.

<u>Purpose of the Study</u>. The purpose of this study is to show the distribution and frequency of industrial arts courses, both required and elective as taken by the industrial arts graduates at Langston University from 1939-1954.

<u>Delimitations</u>. Materials for this study obtained through personal interviews with E. A. Miller, (1) Director of the Department of Mechanic Arts at Langston University, C. D. Batchlor, (2) Registrar at Langston University, and from information contained in catalogues and transcripts.

Presentation. Chapter II depicts the beginnings of the industrial arts program at the Colored Agricultural and Normal University. Chapter III describes industrial arts from 1927-1954. The main body of this report is Chapter IV. The tables in this chapter show course distribution and frequency of industrial arts courses taken by the industrial arts graduates at Langston University. A summary of the course distribution and frequency, and a summary of frequency of elective courses indicating the popularity of courses, based on the number of times a course was taken by a certain number of students, is presented in Chapter V.

#### CHAPTER II

# THE BEGINNINGS OF THE INDUSTRIAL ARTS PROGRAM AT THE COLORED AGRICULTURAL AND NORMAL UNIVERSITY

The obligation of any institution of learning is to serve the needs of the people. Individual requirements follow numerous channels, and Mechanical and Industrial Arts represent a segment of the services offered to meet the needs. In the instance of the Colored Agricultural and Normal University, so named by an Act of the Territorial Council and House, March 12, 1897, the choices of services offered to meet these needs were governed by the types of work done by various groups of people of the state. There is evidence that a mechanical curriculum was needed.

Mechanical Department Established. Through the farsightedness of the Council in formulating plans for the University, the Mechanical Department was included in the Act which is evidence that this phase of education was regarded as essential to the well being of the people which the institution was to serve. It is also evidence of the cognizance of members of the Council for their educational responsibility to a people and their attempt to do something about the situation.

In Section One of House Bill No. 151, the Council designated the purposes and defined the objectives of the institution as follows:

. . . shall be the instruction of both male and female colored persons in the art of teaching and various branches which pertain to a common school education; and in such higher education as may be deemed advisable by such board, and in the fundamental law of the United States, in the rights and duties of citizens, and in the agricultural, mechanical and industrial arts. (3, page 19)

In recognition of the implications of the Act, the following depart-

#### ments were established:

- 1. Mechanical Department-Electrical and Mechanical Engineering.
- 2. Mechanical Department-Civil Architecture. (3, page 19)

Department of Mechanic Arts. The leaders of the University realized that divisions of the department, courses of study and objectives were the next tasks after establishment of the Mechanical Department. To this end the Department of Mechanic Arts was formulated. Its three divisions were Trade, Manual Training and Engineering. The trade division offered courses in carpentry and joinery, machine work, blacksmithing, steam engineering and foundry practice. (4, page 103) The manual training division offered to all academic students weodworking, forging, machine shop practice, foundry practice and mechanical drawing. (4, page 20-21)

The objectives of the courses offered were also included in the curriculum planning. The objectives expressed the expected outcomes of instruction, the subject matter being the vehicle through which these outcomes are sought. The purposes of the trade and manual training courses were similar in that each, ". . . . is to prepare young men to become skilled workmen of the highest type, and to give them preparation which will enable them to reach the more advanced position of foremen, contractors and builders." (4, page 104) Engineering was: ". . . offering a general education and of preparing young men for the profession of mechanical and architectural engineering." (4, page 20-21)

<u>Diplomas and Degrees.</u> As a result of satisfactory work done in the Mechanical Department, "graduates from the mechanical course received a diploma and the degree of mechanical engineering." (5, page 32) The significance of this information no doubt supplied an additional incentive

to the students of this department.

It appears that a functioning expenization in the Mechanical Department was in effect shortly efter the opening of the Colored Agricultural end Normal University. The writer feels this to be true in view of the well planned curriculum. The Territorial Council and House of the Oklahoms Territory also appears to have shown a great interest in discharging its educational responsibility to a people as revealed by its stated purpose and by the objectives of the University. The beginning program of Mechanic Arts was an adequate response to the need of the people.

#### CHAPTER III

#### THE STREET AND FRANK 1927-1954

The Legislature of the State of Chlahoma, the community served by the school, and the leaders of the institution were all instrumental in contributing to the rapid growth of the Colored Agricultural and Hornal University, which, on May 1, 1941, became Longston University. The Mechanical Department of the Colored Agricultural and Hornal University grew rapidly through its beginning years.

Directors of the Department. In 1927, the President of the University, deciding to initiate a four year program leading to a degree, engaged E. A. Miller (1) to formulate such a program and to chair the department. Miller, holding a Bachelor of Science degree in Englishering from Pennsylvenia State College and Master of Science in Industrial Education from Ioua State College, was, in point of educational proficiency, eminently qualified for the position. This was further reinforced by six years of practical experience as a worker and supervisor at Jones and Laughlin, Pittsburgh, Peumsylvenia, and several years of teaching experience at both the secondary and college levels. Miller, except for a period between 1931 and 1936, has served as head of the department since

<u>Present Program in Industrial Arts.</u> In keeping with the best practices of educational systems and with a sympathetic understanding of the problems facing the areas of service, the Division of Mechanic Arts has been operated under the following objectives:

(1) To satisfy the needs of the prospective teacher of Industrial Arts.

(2) To satisfy the needs of the individual who desires information or trades experience in a particular field. (6, page 98)

To implement these objectives, the work of the division has been organized into the following curricula.

Curriculum 1. To offer adequate education and training for teachers of and skilled workers in Industrial Arts and Vocational Education in Electricity, Plumbing, Tailoring, Shoemaking, Steam Power Plant Operation. (6, page 98)

Curriculum 1 is a four year program that leads to the degree of Bachelor of Science.

A second curriculum program is offered for those students who do not attempt to satisfy the requirements of the State Board of Education in regards to requirements in education, and therefore no certification for teaching in Oklahoma is offered. Further, this is not a degree granting program. A certificate is issued by the University to the student who completes this course.

The Curricula in technical training are designed to give the student actual practice in the selected trade under the direct supervision of an expert in the trade. (6, page 106)

Although no effort is made to trace in detail the development of the program of the division under the directorship of E. A. Miller, the progress that has been made during the years since 1927 can readily be recognized. The present program of the division, while not an end in the evolution of the curricula of the department, indicates a marked advance from the disorganized program of the era of the late twenties, both in the area of the objectives of the department and in the specific matter of courses offered to prospective graduates.

#### CHAPTER TV

# COURSE DISTRIBUTION AND PRESENCE TREADS FOR THE YEARS 1939-1954

An index to the growth and development of the efferings of the division can be seen in a representation of the courses pursued by the graduetes. The information presented in the following tables represents the frequency with which the various courses were taken by students who received degrees from the department. These charts do not represent the total list of graduates, but are based on the number of graduates from 1939 to 1954.

Table I shows individual number one of the graduating class of May 23, 1954 as having personal five courses in Automobile Mechanics, Individual number two with four courses in Tailoring, and individual number three with five courses in Shoc Repair. Required courses are indicated with asterisks. In the class of July 24, 1953, individual number two elected six courses in Tailoring while the remaining numbers searcht a general industrial arts curriculum. Of the two graduates of the May 24, 1953 class, individual number one completed five courses of Automobile Mechanics with the second individual following a general industrial arts program. Class of July 20, 1952 shows individuals number one and four as having taken seven courses in Automobile Mechanics and seven courses in Tailoring respectively. Table I (Continued) on page 11 indicates former students number two, four and five as having accomplated eight courses in Tailoring, seven courses in Tailoring and six courses in Sec. Repairing.

These former graduates accrued sufficient theory and practice as to

equip them with an adequate background as would be necessary for them to become employed in an automobile repair shop, tailoring establishment, or shoe repair shop. These graduates then, enriched themselves by adding abother tool by which to earn a living.

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73	03	75	86	93		80	86	8	00	88	77	93		Total Gen. Ed. Sem. Hrs.
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TABLE 1 (Continued)

## COURSE DISTRIBUTION AND FREQUENCY

Individual	Total Sem. Hrs.	Total Ind. Arts	Total Gen. Ed. Sem. Hrs.	Mech. Drawing	Ind, Safety	Bench Work	Auto Mech.	T. & I. Ed.	Metal Work	Wood Turning		Frobs, Ind. Arts	Cab, Making	Ind. Arts. Ed.	Finish		Tailoring	Upholstering	Shoe Repair	Adv. Fur. Making	Fract. Blec.	Orientation Shop	Photography	Carpentry	Plumbing	Welding	Pernting
											Clas	s of	P Ma	y 26	, 19	50											
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2	139	58	81	7		2		3	1	1	1		2	1		1			7		2						
3	173	69	104	7	1	2	7	3	1	1	1		2	1	1	2		1			2				1	1	
4	143	51	92	7	1	2		2	1	1	1		2	2	1.	2		1.			1						
5	149	53	96	7		2		1	1	1	1		2	2	2.	2		1	1	1	2.						1
6	175	65	110	7		2		3	1	1	1		2	1	1	2		1			1						4
7	140	63	77	7	2	2		2	2	1	1		2	1	2		9	1			1						1
8	144	49	95	7		2		2	1	1	1		2	1	1	2		1			1						
9			115	7		3		1	1	1	1		2	3	1	2	8	1		1	1		1				
*10	137	56	81	7	1	2		2	1		1		2	1	1		8	1									
11	142	63	79	7	1	2		2	1	1	1		2	1	1	2		1	10		1						
12	136	45	91	7	1	2		1	1	1	1		2	1	1	2		1		1							
	135			7	1	2		1	1	1	1		2	1	1	2		1		1							

\*Cum Laude

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\$		ය	8	8	\$	රා	3	23	35	\$		Total Ind. Arts Sem. Hrs.
9		3	8	2	3	23	83	8	2	22		Total Gen. Ed. Sem. Hrs.
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			فسز	jud.	jd	14	14			<u></u>		Ind. Safety
N		N	22	N	N	N	N	73	N	N		Bench Work
					N	03			43	70		Auto Mech.
<del> </del>		N	فيبؤ	ارورا	N	<b>1</b>	203	1/3		<i>N</i> 3		
<del>                                     </del>	-				+						+  -	T. & I. Ed.
-		1-0	1/3	H	N	<b> </b>	<b>F-9</b>	j-uj	-	<del>   </del>		Metal Work
 -		N	<b>j-a</b>	144	1-4	سر	j <sub>ee</sub> j	<b>[</b> -2	-	-		Wood Turning
<u> </u>	Class	1-4	11	100	1-3	1-1	1-4	<b>1</b>	1-0	14	Chage	Care of Tools
	0 0						1-4		1-1		0	Probs. Ind. Arts
N	r July	N	พ	N	N	-	N	N	83	10	<b>3</b>	Cab. Making
-		N	N	14	-	w	<b>}</b>	10		N	26	Ind. Arts. Ed.
-	3	فيو	سا	سر	-	1-4	قسو	فبو	مر	1-10	T 11	Wood Finishing
N	1949	10	20	1-4	נמ	M	N	N	1-4	N	1950	Prod. Basis
-	<del>                                    </del>		<b> </b>	CO2			1				8	Tailoring
-		1-4	-	jud .	<b> </b>	14	j-d	1-4	juil 1	-	8	
<del> </del>			-	-			15.00	-			<b>8.</b>	Upholstering
-	-	<del>                                     </del>	<del> </del>	<del> </del>		-	-	- la - a		<del> </del>		Shoe Repair
ļ	<u> </u>	1-4	1-4	ļ	-		83	اسر		ļ		Adv. Fur. Making
1-0		144	3-4	9-4	j <sub>red</sub>	1-4	hull	jus	h.e	1-0		Pract. Elec.
								ļ				Orientation Shop
		<b>Ji</b>	1-4		1-4				1-0			Photography
<b>jd</b>								فبز				Carpentry
14												Plumbing
						N	1-4		فنوا	pus.	1 1	Welding
				1			<del> </del>	1		1		
 	<u> </u>		<u></u>	1		<u> </u>	<u> </u>					<u>Printing</u>

w	N	j-d		N	\$mil.		6	UR	1	w	N	-		Individual
70	135	139		144	140		143	138	139	137	131	137		Total Sem. Hrs.
244	5 46	59		49	15		8	63	55	56	45	50		Total Ind. Arts Sem. Hrs.
8	87	80		95	68		23	75	48	13	86	87		Total Gen. Ed. Sem. Hrs.
09	03	00.	-	00	03		00	00	00	00	00	00		Mech. Drawing
		3-4								)-d				Ind. Safety
N	N	N		N	N		N	N	w	N	N	N		Bench Work
	1-4	00						00				74		Auto Mech.
-	jud						(mile	N	- Book	feel		1		T. & I. Ed.
N	pul	[red		hed	put		jud.	pull.	1-4	[ml	jud	pud .		Metal Work
N							pud		N	[mil		[md		Wood Turning
N	ы	<b>Jud</b>	Class	<b>Jud</b>	pul.	Class	1	N	10	- Jud	[ml	1	Class	Care of Tools
			30 80			30 8					-4		S Of	Probs. Ind. Arts
N	N	N	r May	N	N	f July	pul.	[ml	N	N	N	N	May .	Cab. Making
		N	y 26	just .	jud .		Jud	N	N	N	N	100	31	Ind. Arts. Ed.
jud jud					pud.	23	1	<b>Jud</b>		(had)	- Just	pud .	, 1949	Wood Finishing
м	14		1948	pud.		876	g-d	- Jud	[md	N	N	N	49	Prod. Basis
		[mil			(mall					<b>bud</b>				Tailoring
	pull.										Im	put.		Upholstering
				4	-3		00.					181		Shoe Repair
									put.					Adv. Fur. Making
ы				N			N	put.	[m]	- Band	jul	Jud		Pract. Elec.
	_													Orientation Shop
							[m]	gud.	h	\$md		\$nd		Photography
		14			-		Jud		[w]					Carpentry
					fed									Plumbing
														Welding
														Printing

w	N	9-0		ţ-d		10	9	63	7	0	UR	4		Individual
171	145	7.77		150		137	1/1	147	136	1/1	136	1/2		Total Sem. Hrs.
4	49	43		8		12	12	8	Lug W	00	60	67		Total Ind. Arts Sem. Hrs.
97	8	TOT		711		95	99	9	103	93	000	93		Total Gen. Ed. Sem. Hrs.
00.	00	00-		00		00	09.	00	00	03	03	00		Mech. Drawing
							Jud.							Ind. Safety
N	N	full		N		N	w	N	N	N	N	N		Bench Work
7								9			02			Auto Mech.
N	N	N							- Barri			Sed		T. & I. Ed.
-	)-d	ţ-d		jud .		jud .	Bud	pu)	pu)	g-ud	[mb	Bead		Metal Work
	[md						- Barel		pod .	1				
м	1-0		2	pus	CI	pul.	feel	jud.	140	put .	[md	[mil	Class	Wood Turning
			Class		Class									Care of Tools
1	**	[mil	9	N	0	N	N	20	N	N	N	N	2	Probs. Ind. Arts
Per Per	N	l-m	Ash	10	July	10		-	2.0	-	C.G		No.	Cab. Making
			21,		130			-		Şud		ped   ped	26	Ind. Arts. Ed.
	1	H	1947	þ	South		jud.	_		Prof.	Jud		1948	Wood Finishing
	N	N	-3	(bud)	7.76	bul	N			-		[will		Prod. Basis
					-	w					[md	0	Continu	Tailoring
	1			3-0				Şud					inu	Upholstering
		Jud				N				-2		1	2	Shoe Repair
	Jud													Adv. Fur. Making
1	[md	- Book		1-0		jus	Jud	jul	1			- June		Pract. Elec.
														Orientation Shop
							4	TT.		1	put	12		Photography
	[ml	N					4 1		-30					Carpentry
					2.5						,			Plumbing
														Welding
														Printing

N	-		Н	-	11	10	9	00.	7	0	Ur	4		Individual
141	111		142		156	137	145	162	146	142	140	137		Total Sem. Hrs.
49	40		38		36	44	45	30	48	4	55	46		Total Ind. Arts Sem. Hrs.
8	100		104		120	93	100	132	88	98	85	91		Total Gen. Ed. Sem. Hrs.
00	00		004		00.	00	00	004	00	00	02	00		Mech. Drawing
														Ind. Safety
N	N		N		N	N	N	N	N	<b>Just</b>	-	N		Bench Work
			ш						0	1		0		Auto Mech.
۳						N	М		N	N	N	N		T. & I. Ed.
			ы		<b>  </b>	j-d		1-4	1	1-1	j-d	H		Metal Work
			-			-d				(md				Wood Turning
۳	- 1	Class	-	Clas		Н	1-0	-	1	1	1-0	pi	Class	Care of Tools
		30		0									0	Probs. Ind. Arts
N	N	May	N	July	N	N	N	N	N	ad	N	jud.	May	Cab. Making
		124,		-									21	Ind. Arts. Ed.
-	[mil	, 1946	7.3	19, 1	1	М	1-4	pul.	_	(ma)	hul		1947	Wood Finishing
	_	46	N	946	٢	سر		_		-	faul			Prod. Basis
	7					put.				w			Cont	Tailoring
H													Continued	Upholstering
7							7		1-0		00	) P2	od.	Shoe Repair
					hod						_			Adv. Fur. Making
ы			ш		jud .	101			_		ш			Pract. Elec.
				<u> </u>	ļ						_			Orientation Shop
					ы				_	-				Photography
				-	-					_	-			Carpentry
	_										-			Plumbing
				-										Welding
														Printing

	T		T		**	No. V	Т	N	p-d	T	200	w		
pul		-	-	w	N	[m]				-				Individual
67T				145	776	151		139	1/2		OM	145		Total Sem. Hrs.
34				34	88	12		40	40		37	40		Total Ind. Arts Sem. Hrs.
115				111	103	109		8	201		103	105		Total Gen. Ed. Sem. Hrs.
00.				03	03	00		00	63		63	03		Mech. Drawing
						-								Ind. Safety
N				N	N	N		N	N		N	N		Bench Work
						1-4			7					Auto Mech.
÷											M	N		T. & I. Ed.
<b>just</b>				- Jud	<b>Jud</b>	feel		f-ull	) ad		- just	- Band		Metal Work
				Sud							<b>Jud</b>			Wood Turning
put the	Class		Clas	- Bart	feeli	340	Class	[md	pul	Clas	Bud .	pud .	Clas	Care of Tools
	95 01	No	30 02				10 8			30 8			S Of	Probs. Ind. Arts
N	Ney 3	6.3	July	20		М	May		N	July	N	20	May	Cab. Making
	7 24,	Graduates					23			y 20,			24	Ind. Arts. Ed.
	, 1944	80	27, 1	put.	[md	hed	1945				(md	field	1946	Wood Finishing
	77		776				6			1945				Prod. Basis
N				p=0	0	6		03.			bed	<b>Jud</b>	Continued	Tailoring
													much	Upholstering
				1								<b>J</b> 0	Ď,	Shoe Repair
	_			1	_					_				Adv. Fur. Making
				-				_						Pract. Elec.
				1		_		-	_					Orientation Shop
	_		_			_			_					Photography
	-							-		_				Carpentry
	-		-		-				-					Plumbing
1000	_		-					-				-		Welding
pus.														Printing

Ut	2	w	N	pud.		) and		gua.				Indîvîdual
148	14,5	137	142	139		150		159				Total Sem. Hrs.
49	50	4	64	16		6		4				Total Ind. Arts Sem. Hrs.
3	20	8	93	93		OLL		115				Total Gen. Ed. Sem. Hrs.
004	00	90	03	90		03		03				Mech. Drawing
												Ind. Safety
w	w	N	N	N		N		N				Bench Work
7	S			1-0		UR						Auto Mech.
j-A	jud.	1	اسو	<b>Jud</b>				N				T. & I. Ed.
)-d	w	1-1	1	j-d		Jed		[md				Metal Work
		<b>Prod</b>		1-0				[ml				Wood Turning
j-d	jud .		- feed	- Fault	Class	1-d	Class	1-0	Class		Class	Care of Tools
					00		30 8		8 0	No	30	Probs. Ind. Arts
		N	N	N	May	N	July	N	M	Graduates	Vint	Cab. Making
					27		S	ş.d	26	uate	¥ 23,	Ind. Arts. Ed.
1-0	N	had	led	- Band	1942	27		348	1943	20	to di	Wood Finishing
	ļ	N		27	K		19/2	344	w		9/3	Prod. Basis
								<b>jud</b>				Tailoring
1-0	[md	jud.		[md		[wi		\$ sed		_		Upholstering
												Shoe Repair
												Adv. Fur. Making
	[md]	[md	3-0	1-4								Pract. Elec.
												Orientation Shop
												Photography
		_								_		Carpentry
									-	_		Plumbing
										-	-	Welding
 - José			6									Printing

7	0	UR.	4	w	N	<b>j</b> 0		N	5-4		N	po.		Individual
116	139	140	146	1/1	114	140		M	IN		1/2	717		Total Sem. Hrs.
7		41	43	44	45	46		53	15		1.9	43		Total Ind. Arts Sem. Hrs.
7	CO	8	10	9	38	94		97	8		3	TOL		Total Gen. Ed. Sem. Hrs.
00.	09	03	09	09	03	00		004	03		09	09		Mech. Drawing
				_										Ind. Safety
N	N	N	N	N	N	N		N	20	_	3-4	N		Bench Work
fuel	4				1-0									Auto Mech.
bud	pull.	_	put.	jud.		-	-	N	-	-	N	p-d		T. & I. Ed.
jud.	N	had	М	pull.	-		-	1-4	1-4	_	w	pull .		Metal Work
		_		pul.	\$-a8	<u> </u>		-			- Judi	\$-all	_	Wood Turning
14	pud.	346	(md	- Beed	ind	- Band	Class	jud	N	Class	-	[md	Class	Care of Tools
	_	_		-	-		202			S OF		-	0	Probs. Ind. Arts
N				N	N	N	July	20	1-0	May	N	N	Toly	Cab. Making
- Jud	w			þd	- June	-	y 17,	-	1-4	21	-	-	A 53	Ind. Arts. Ed.
[md	feed	1	1-0	lod	Н	jud .		1-4	- Band	19/1	-	Ş-all	1	Wood Finishing
		-	_	+	N	-	1940	-	-	jul	-	N	1941	Prod. Basis
	-	7	*	-		7	-	-	7	-	-			Tailoring
			_	+	1-0	j.ed	+	+	1-4	-	-	14		Upholstering
~	-	-	_	+	-	-	+	7	[md	-	-			Shoe Repair
	-		_	+	-			+	-	-	-	-		Adv. Fur. Making
bud	N		- Feed	- Band	- Just	ы	-	-	- June		1	- Band	_	Pract. Elec.
-	5.9			-		-	-	+	-		-			Orientation Shop
-	Jud		Şud	1-0	- Seed		+	+	-					Photography
		<u> </u>		1	$\vdash$	-		+						Carpentry
										-				Plumbing
		N						jud			*	-		Welding
		10						-	-		*			Printing

Ut	*	w	N	3		<b>3</b> ~	w	N	)-d		9	00.		Individual
7/7	143	139	151	152		118	14,5	139	143		137	1/2		Total Sem. Hrs.
11	84	45	49	57		25	46	44	52		42	23		Total Ind. Arts Sem. Hrs.
103	95	94	102	95		103	38	95	91		8	99		Total Gen. Ed. Sem. Hrs.
00	004	00.	00.	034		00.	00.	00.	03-		03	60		Mech. Drawing
														Ind. Safety
N	N	N	N	N	_	N	N	N	N	_	N	N		Bench Work
														Auto Mech.
<b>Jud</b>	}-d	100	2-0	N			_	-	N		had	(put		T. & I. Ed.
jud jud	g-d		jul .	1		N	j-d	[mil	1-0		3-4			Metal Work
100	ы							1-4			1-0	lod		Wood Turning
М	<b>[-4</b>	jud .	[ml	jud	Clas	- Band	þd	[wd	g-ui	Clas	jul .	Ind	Class	Care of Tools
					No se					30 08		_	9	Probs. Ind. Arts
N	N		N	20	July		N	N		Megy	N	N	July	Cab. Making
			N			1-0			fuel	15,		344	y 17,	Ind. Arts. Ed.
put	[mil	- Band	(m)	gud .	19, 1	j-d	1-0	1-0	1-0	1940	[md	feet		Wood Finishing
N	N	_	N	-	1939	-		_	-	00	N	N	1940	Frod. Basis
		7		4			0	w					Contin	Tailoring
1-0	1	feed	Seed	[m]	_	_				_	jud	[md	time	Upholstering
	1		_			UR		_	7			71	90	Shoe Repair
-	_			_	_	-		_		_		-		Adv. Fur. Making
jud .	-	jus	ы	-d	_	[md	feel	] md	Şuşt.	_	_	-		Pract. Elec.
		-	_	-				-	-	-		-	-	Orientation Shop
	Jud	-	[md	feel	_	-	j-s		-	_	_	-	-	Photography
	_	_	_	-	-	-	-	_	-	-	-	-		Carpentry
	_		_	_	-	-			-	-	-	-		Plumbing
	_					-			-	-		-	-	Welding
-														Printing

	6	S	*	w	N	1-0		0		Individual
	1/1	1/8	139	77	149	1/2		145		Total Sem. Hrs.
	41	43	46	40	45	43		8		Total Ind. Arts Sem. Hrs.
	100	105	93	101	104	8		107		Total Gen. Ed. Sem. Hrs.
	00.	00.	00	00	004	00		00		Mech. Drawing
						2				Ind. Safety
	N	N	N	N	N	N		N		Bench Work
										Auto Mech.
										T. & I. Ed.
	1		fred			pu)		1		Metal Work
		put.	- June			1-0		1-4		Wood Turning
	- Jul	<u></u>	jul		jul	1	Clas	14	Clas	Care of Tools
							30		30	Probs, Ind. Arts
	10	N	N			N	Mey	N	July	Cab. Making
	3-4	1			jud	3-40	14,		J 19	Ind, Arts. Ed.
	p-d	ы	g-all			-	, 1939	full		Wood Finishing
1 60	N	N	jud .			-	3	pul.	1939	Prod. Basis
					~				Co	Tailoring
	þal	[ml	ы		[mil	pull .			Contin	Upholstering
			w	9	g-at				led.	Shoe Repair
										Adv. Fur. Making
		<b>Jud</b>	jud	jul	1	jd		g-ad		Pract. Elec.
				-		_	-			Orientation Shop
		post.	put			<b>Jud</b>				Photography
	H									Carpentry
		-			-			jud.		Plumbing
					_					Welding
										Printing

#### CHAPTER V

#### A SUMMARY OF FINDINGS

The sixteen commencement periods covered by this study show 142 graduates from the Division of Industrial Arts. The tables in the foregoing chapter and the summary tables to follow indicate the distribution of the courses taken by these graduates. It will be noted that courses in 24 subject matter divisions have been or are being offered by the department during this period. Of these, work is required in 12 divisions, and work in the other 12 divisions is elective. An attempt is made to generalize on the relative popularity of the elective courses based on the frequency with which they have been taken by students. In the area of required courses, no such generalizations are possible, because it must be assumed that the selection of such courses is based on the evidenced needs as reflected by surveys made by department directors during the period of curriculum planning.

It will be seen that the courses offered in Mechanical Drawing (required), Bench Work (required), Productive Basis (required) are those having the highest frequency. It is understood that these are basic courses in any program dealing with the industrial arts program and would be essential to the prospective teacher of industrial arts subjects regardless of his specialization. On the other hand, Advanced Furniture Making (elective), Carpentry (elective), Welding (elective), have drawn the fewest number of students. It can be assumed that the prospective teacher would find such specialized courses undesirable in the preparation for the type of general shop program likely to be encountered in

the typical modern secondary industrial arts program. Of course, in the larger and better equipped high school shop, courses in welding and carpentry would be offered.

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In the area of elective courses, Tailoring, Auto Mechanics, and Shoe Repairing, in that order, were revealed as the most popular courses. the surveyed period, 48 students elected 220 courses in Tailoring, 34 students elected 162 courses in Auto Mechanics, and 34 students elected 150 courses in Shoe Repairing. These courses would be the most popular for one of two reasons, or possibly both: These courses are generally offered in the secondary school program, and in the case of Tailoring, at least, the commercial possibilities might possibly influence the popularity. It would, of course, be a general truth that the student would elect those courses that would offer to him the highest probability of financial return in his post-college employment opportunities. It should also be noted that a number of elective courses-Printing, Welding, Plumbing, Carpentry-show a decreasing frequency of election. This could be explained by the fact that the majority of graduates realize the probability that these areas will not be offered in the situations in which they will teach. A further reason may be advanced in that the average student is not preparing for industrial employment but is readying himself for teaching.

In view of the course offerings and in view of the frequency with which these courses are elected, the program of the Mechanic Arts Department at Langston University is adequate in that it meets the needs of its graduates.

TABLE 2

					19%					1953			1954	Year
0	w	9	03	N	TO	w	20	S	pul.	0	[md	N	w	No. of Graduates
					8					43			8	Mech. Drawing
				N					1-0				w	Ind. Safety
					8			TO					0	Bench Work
				9			6				1-0			Auto Mech.
			10							7			UR	T. & I. Ed.
		11					-		1	CO			w	Metal Work
			00							7			w	Wood Turning
					10					~			w	Care of Tools
				la l		w						N		Probs. Ind. Arts
		17								12			0	Ceb. Making
					27					15			-3	Ind. Arts. Ed.
		0								0			w	Wood Finishing
					20					12			6	Prob. Basis
	N								0			UR		Tailoring
			02			w						N		Upholstering
				~			w				S			Shoe Repair
	w				-				Beef		[md			Adv. Fur. Making
0								VI						Pract. Elec.
						w								Orientation Shop
				N		w							-	Photography
							*							Carpentry
		þ												Plumbing
														Welding
														Printing

	1950									1951			1952	Year
3	26	[md	11	00	0	100	H	4	13	19	[ed	UR	Continued	No. of Graduates
	211									134			fau	Mech. Drawing
36				1					u				2	Ind. Safety
	53									38				Bench Work
								17						Auto Mech.
	46									37				T. & I. Ed.
	29									23				Metal Work
							T							Wood Turning
	26					00						1		Care of Tools
					0									Probs. Ind. Arts
	52									37				Cab. Making
	37					25								Ind. Arts. Ed.
										19				Wood Finishing
						37								Prob. Basis
				41										Tailoring
			11											Upholstering
				31										Shoe Repair
														Adv. Fur. Making
. 4									G					Pract. Elec.
												S		Orientation Shop
					9									Photography
											N			Carpentry
		had												Plumbing
														Welding
		pul.											1	Printing

		1949								1			1950	Year
JR.	- Bert	~	2	<b>Jud</b>	23	9	UR	7	23	w	24	0	1	No. of Graduates
	Z	55				-							Continued	Mech. Drawing
	1												Dec	Ind. Safety
		な												Bench Work
	00											12		Auto Mech.
0														T. & I. Ed.
		-3												Metal Work
6														Wood Turning
		9									23			Care of Tools
	- Jud													Probs. Ind. Arts
		K								w				Cab. Making
		K												Ind. Arts. Ed.
									3					Wood Finishing
		11									43			Prob. Basis
								43			L			Tailoring
				_					_		24			Upholstering
	00						N							Shoe Repair
	1-4					10			_					Adv. Fur. Making
		03			N									Pract. Elec.
														Orientation Shop
UR								7						Photography
				-							_	_	-	Carpentry
	М			14		_			_					Plumbing
				_				00						Welding
			~3											Printing

		1947							1948				1949	Year
5		12	jud	0	un	w	-	N	12	w	20	0	-	No. of Graduates
	4	96							8				Continued	Mech. Drawing
								N					ued	Ind. Safety
		22							25					Bench Work
	20						26							Auto Mech.
17							*							T. & I. Ed.
									13					Metal Work
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TABLE 3 (Continued)

SUMMARY OF FREGUENCY OF BLECTIVE COURSES

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TABLE 3 (Continued)

SUMMARY OF FREQUENCY OF ELECTIVE COURSES

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## Appendix A

## A SELECTED BIBLIOGRAPHY

- 1. Miller, B. A., personal interview, June 23, 1954.
- 2. Batchlor, C. D., personal interview, June 25, 1954.
- 3. Catalogue of the Colored Agricultural and Normal University, 1899-1900, 34 pp.
- 4. Annual Catalogue of the Agricultural and Normal University, 1912-1913, 172 pp.
- 5. Catalogue of the Colored Agricultural and Normal University, 1900-1901, 35 pp.
- 6. The Langston University Bulletin, Catalogue Edition, 1953-1954-1955, 131 pp.
- 7. Franklin, Marion E., A <u>History of Industrial Education in Oklahoma</u>, (Unpublished Ed. D. Dissertation, The University of Oklahoma, Norman, 1952) 373 pp.

REPORT TITLE: A SAUDY OF THE DISTRIBUTION AND FREQUENCY OF INDUSTRIAL ARTS COURSES TAKEN BY THE GRADU-ATES AT LANGSTON UNIVERSITY, 1939-1954

WALE OF AUTHOR: Albert M. Thompson, Sr.

REPORT ADVISOR: DeWitt Hunt

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