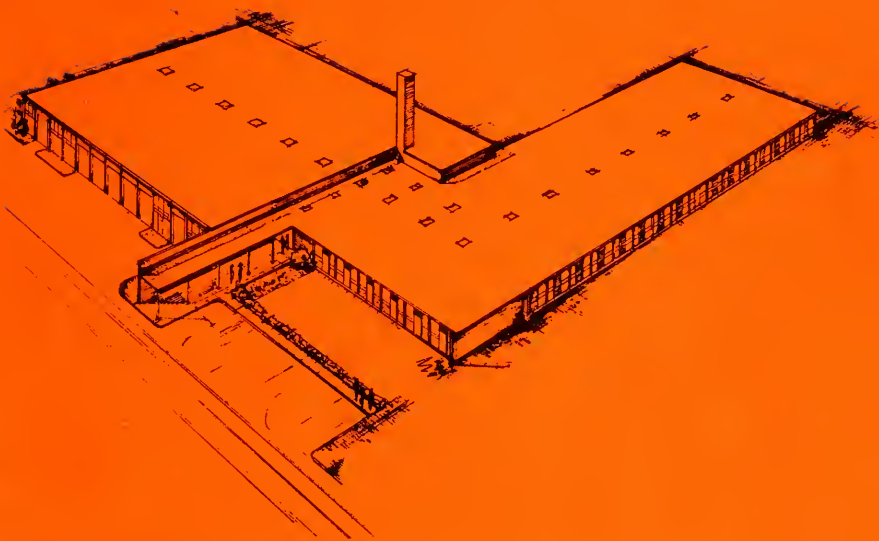


RANDOLPH
INDUSTRIAL
EDUCATION
CENTER



CATALOG 1964 - 1965

629 INDUSTRIAL PARK

ASHEBORO, NORTH CAROLINA

R A N D O L P H I N D U S T R I A L
E D U C A T I O N C E N T E R

6 2 9 I N D U S T R I A L P A R K
A S H E B O R O , N O R T H C A R O L I N A
H I G H W A Y 2 2 0 S O U T H

C A T A L O G U E O F C O U R S E S
D A Y - E V E N I N G
A N D E X T E N S I O N S C H O O L
1 9 6 4 - 1 9 6 5

TELEPHONE 629-1471

AREA CODE 704

A D M I N I S T R A T I O N

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Evening Programs

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Sue Moore-----Secretary

Sandra Williams-----Secretary

* * *

F O R E W O R D

LOOKING AHEAD TO EDUCATION FOR ALL

Randolph Industrial Education Center is an area vocational-technical school which accepts men and women for enrollment in a wide variety of subjects for the development of human resources. Each student is offered the type of education that will best provide for professional competence in his major field of study.

Training of highly skilled craftsmen and technicians is more important today than ever before because of the rapid industrialization of the South. New developments and higher standards of service go hand-in-hand with progress and change. In such a world, professional competence is of prime importance. If students are to take their places as fully contributing members of society, knowledge must be available at all levels.

Randolph Industrial Education Center recognizes this concept as one element of education, and programs offered by the I. E. C. will enable qualified youths and adults to successfully meet the challenges of our ever changing society. Demand for adequately trained students should far exceed the supply for many years to come.

The Randolph Industrial Education Center will continue to meet this situation by its growth and expansion. Courses and programs will be added as demands become apparent and trends are determined.

We hope this publication will be of value to you. Please study the various programs, and when you visit the Center, feel free to call on us for additional information.

Finally, in serving as President of this institution, I would be remiss if I did not praise the work of our staff in their preparation of this material.

M. H. Branson, President

F A C U L T Y

Full Time

Clay B. Bollinger, Agricultural Technology

Bonnie Britt, Practical Nurse Education

Vernon Felton, Learning Laboratory

C. M. Frazier, Machine Shop

Henry Groome, Jr., Learning Laboratory

Adam Hunt, Mathematics

Paul Newby, Welding

E. P. Stacy, Electronics

Lowell Whatley, Automotive Mechanics

Part Time

Joe Anderson, Mechanical Drafting

Ronald Biddle, Architectural Drafting

Calvin Brower, Drafting and Metallurgy

Roger Byers, Welding - Auto Mechanics

Jack Lail, Electrical Technology and Electronics

John Rentz, Electrical Technology

Frances Taylor, Communicative Skills

RANDOLPH INDUSTRIAL EDUCATION CENTER
ASHEBORO, NORTH CAROLINA
STUDENT CALENDAR
1964-1965

FALL QUARTER

Registration	September 3-4
Classes Begin	September 8
Last Day For Registration	September 15
End of Fall Quarter	November 23

WINTER QUARTER

Registration	November 24-25
Thanksgiving Holidays	November 26-27
Classes Begin	November 30
Christmas Holidays	December 22
Classes Resume	January 4
End of Winter Quarter	February 24

SPRING QUARTER

Registration	March 1-2
Classes Begin	March 3
Easter Holidays	April 15
Classes Resume	April 20
End of Spring Quarter	May 20

SUMMER QUARTER

Registration	May 24-25
Classes Begin	May 26
Independence Holidays	July 2
Classes Resume	July 12
End of Summer Quarter	August 20

TECHNICAL

Much of the technical education is semiprofessional in nature, having more emphasis given to technical knowledge than is given in specialized vocational programs and with more emphasis placed on laboratories and development of skills than is given in advanced engineering education.

Technical training is especially planned for those wishing to qualify as engineering aids and technicians, such as laboratory supervisors, inspectors, junior draftsmen and designers, control instrument experts, foremen, chief maintenance men, and persons charged with responsibilities and skills of a semi-engineering nature. The technical curricula requires two years for completion.

Students desiring to enter a technical course must meet educational and aptitude requirements applicable to the individual course of their choosing. Students must have a well founded background in mathematics and science.

Students successfully completing the technical curricula will be prepared to offer prospective employers skills and education necessary to perform duties as a technician. In order to get full benefit of technical courses, it is recommended the student enroll full-time.

TRADE

Complexity in the trades increases each year due to scientific discovery and new engineering. We must not lose sight therefore of the ever growing need for skilled craftsmen. The Randolph Industrial Education Center offers training in the skilled trades with special emphasis on manual skills and proficiency in actual construction, operation, and maintenance jobs in the respective vocations. Trade courses require one full year of participation for students attending full-time. Applicants are urged to enroll in the craft areas on a full-time basis.

EVENING PROGRAM

An extended Evening Program provides an opportunity for working men and women to pursue technical or trade courses of their choice during the hours of 4:30 until 10:00 p.m.

Included in this evening program are short extension courses from 10 to 72 hours in length designed to meet the needs of those individuals desiring special training and upgrading of present skills and occupations. Also included in this program are Supervisory and Plant Management courses designed to meet the needs of individuals who desire to advance in the field of supervision. The I. E. C. is interested in working with industry in order that a suitable schedule may be offered to accommodate such students.

GENERAL ADULT EDUCATION

Those persons applying for entrance to the Randolph Industrial Education Center who do not meet the requirements for admission to the Trade and Technical programs, due to educational deficiencies, are urged to enroll in THE FUNDAMENTALS LEARNING LABORATORY. An individual has an opportunity to complete his high school education, prepare to enter our specialized programs, or study subjects of special interest. This program is open to any adult who wants to learn, regardless of previous education. Through the use of programmed materials, under the supervision of the counselor, the individual may progress at his own rate of study. This program is available at a nominal cost and offers courses in the following areas: English, Math, Science, History, Reading, Languages, and Psychology.

GENERAL ENTRANCE REQUIREMENTS

Randolph Industrial Education Center is a co-educational institution open to any citizen provided he or she meets educational requirements and has the ability to enter into and progress in a course or program. All applicants must be eighteen years or older, in reasonably good health with no physical defects that would effect his ability to achieve in a certain field of work.

All applicants desiring to pursue a technical program must be high school graduates or equivalent. Technical applicants must have completed one year of Algebra and one year of Geometry. One unit of science is a desired prerequisite for entrance into the technical program. Deficiencies may be removed through the Learning Laboratory.

ADMISSION PROCEDURE

Persons wishing to enroll in courses or programs at the Randolph Industrial Education Center must secure an application for admission. Application forms may be obtained in person or by writing or calling the Industrial Education Center located just off Highway 220 South, Asheboro, North Carolina. The telephone number is 629-1471.

Application for a given course may be made at any time preceding the enrollment date of courses. It is strongly recommended that this be done at least thirty days prior to the beginning of each quarter. Such time is required for the necessary testing, counseling and the proper evaluation of results.

All applicants desiring to pursue a technical or trade course will be required to take the General Aptitude Test Battery administered by the Employment Security Commission. Under special conditions, equivalent examinations may be given by the Industrial Education Center at the discretion of the administrative staff.

Applicants will be required to complete the following steps:

1. Make application
2. Deposit a \$2.00 registration fee
3. Submit a transcript of school records
4. Complete GATB test
5. Arrange for an interview with Industrial Education Center Personnel

Upon completion of the preceding steps, each application will be evaluated. Notification of acceptance will be made within two weeks after the above requirements have been completed. No application will be considered complete until all required information has been submitted to the Registrar.

GRADES AND REPORTS

Grades will be issued to all students at the end of each quarter. Students enrolled in either the technical or trade program will be graded by the following numerical system:

A - 93-100	Excellent
B - 85-92	Above Average
C - 77-84	Average
D - 70-76	Passing
E - Below 70	Failing
I -	Incomplete

ATTENDANCE

All students will be expected to attend classes according to their arranged schedule. Unexcused absences will be marked as "0" for daily work. Three consecutive unexcused absences will subject a student to dismissal. An accumulation of unexcused absences will also subject a student to dismissal.

STUDENT CONDUCT

Students will be expected to conduct themselves at all times as mature adults. Students who do not respect the rights and privileges of other students and fail to demonstrate a high regard for school facilities, property, and personal effects of others will be subject to dismissal.

STUDENT SERVICES

Counseling and Testing

The Center conducts a service of counseling and guidance for the benefit of students enrolled at the Center and for applicants desiring professional assistance in the selection of a program of learning. Students who are having difficulties with grades or personal problems should seek counsel with the Director of Student Services.

The Director of Student Services is especially trained to assist in personal counseling, study habits, and interpreting rules and regulations pertaining to the Center. He will be your friend while attending the Center.

Library

As an educational institution the I. E. C. constantly stresses the use of its library and attempts to put forth an unflinching effort in the development of its library facilities. A modern technical library is maintained by the Randolph Industrial Education Center for use by students and faculty. The library contains trade and technical periodicals in all the fields offered by the Center and has reference material on engineering, technical, and trade levels of education. The library is open to all students participating in the various programs of the Center.

Placement

Randolph Industrial Education Center operates a placement service in cooperation with local industry and the North Carolina Employment Security Commission to secure jobs for graduates of trade and technical programs.

GRADUATION REQUIREMENTS

Diplomas

Students completing a prescribed course in either the technical or trade division will be granted an institutional diploma upon the successful completion of all prescribed courses within a curriculum. Successful completion means all grades must be passing or better. Students who fail individual courses will be required to make up such deficiencies before a diploma will be granted.

Certificates

Certificates of completion will be granted for all students successfully completing short term classes.

RANDOLPH INDUSTRIAL EDUCATION CENTER
TECHNICAL PROGRAMS

AGRICULTURAL BUSINESS TECHNOLOGY

The Agricultural Business Technology Curriculum is designed to help students acquire knowledge, understanding, and abilities in the broad field of agricultural business. Many responsible positions in agricultural businesses and industries require technical training not available in high schools or four-year colleges. Upon completion of this curriculum, a person will be able to acquire a responsible position in an agricultural firm and advance within such a business.

Agricultural Business Technology is a full-time, 18 month course of study. In this curriculum, a student can major in Agricultural Business Technology and minor in one of three options: Chemicals, Poultry and Livestock, or Farm Business Management.

CURRICULUM BY QUARTERS

SIX QUARTERS EIGHTEEN MONTHS

C - Class hours per week
L - Lab hours per week
Q - Quarter hours of credit

<u>FIRST QUARTER</u>	<u>C</u>	<u>L</u>	<u>Q</u>
BUS 311 Business Mathematics	3	0	3
ENG 301 Reading Improvement	2	0	2
AG 370 Animal Science	5	2	6
AG 310 Introduction to Agricultural Economics	5	2	6
	15	4	17

SECOND QUARTER

			<u>C</u>	<u>L</u>	<u>Q</u>
BUS	320	Accounting	5	2	6
ENG	302	English	3	0	3
AG	312	Agricultural Marketing	5	2	6
AG	420	Plant Science	5	2	6
			<u>18</u>	<u>6</u>	<u>21</u>

THIRD QUARTER

BUS	321	Accounting	5	2	6
AG	314	Farm Business Management	5	4	7
ENG	303	Technical Writing	3	0	3
AG	492	Fertilizers and Lime	3	2	4
			<u>16</u>	<u>8</u>	<u>20</u>

FOURTH QUARTER

AG	316	Agricultural Finance	5	2	6
BUS	317	Sales Development	3	2	4
BUS	326	Business Organization & Operation	3	0	3
ENG	304	Communicative Skills: Speech	-	-	5
		Agriculture or Business: Elective			
			<u>13</u>	<u>4</u>	<u>20</u>

FIFTH QUARTER

AG	306	Farm Chemicals	5	2	6
BUS	318	Business Law	5	0	5
AG	336	Farm Electrification	3	2	4
BUS	310	Written Sales Communications	3	2	4
			<u>16</u>	<u>6</u>	<u>19</u>

SIXTH QUARTER

SOC	301	Human Relations	2	0	2
AG	326	Agricultural Program and Agencies	3	2	4
BUS	335	Business Management	3	0	3
BUS	309	Business Machines	0	4	2
AG	502	Agricultural Business Practicum			
		198 Minimum Hours	-	-	6
		Agriculture or Business: Elective	-	-	5
			<u>8</u>	<u>6</u>	<u>22</u>

ELECTRICAL TECHNOLOGY

The objective of the Electrical Technology program is to prepare young men and adults to advantageously enter employment in the various electrical fields such as the electrical power (generators, motors, lighting, and controls) industry.

This curriculum is 18 months in length and is divided into six quarters of 11 weeks each. Emphasis will be placed on the developmental growth of the individual in the hope that the training offered in this program will lead to future growth and study.

CURRICULUM BY QUARTERS

SIX QUARTERS EIGHTEEN MONTHS

C - Class hours per week

L - Lab hours per week

Q - Quarter hours credit

FIRST QUARTER

			<u>C</u>	<u>L</u>	<u>Q</u>
MA	301	Technical Math	5	0	5
PHY	301	Properties of Matter	3	2	4
ENG	301	Reading Improvement	2	0	2
DD	307	General Drafting	2	3	3
ELEC	310	Direct Current Theory & Lab	5	6	8
			17	11	22

SECOND QUARTER

MA	302	Technical Math	5	0	5
PHY	302	Physics: Work, Energy, Power	3	2	4
ENG	302	Communicative Skills: English	3	0	3
ELEC	311	Alternating Current Theory & Lab	5	6	8
			16	8	20

THIRD QUARTER

			<u>C</u>	<u>L</u>	<u>Q</u>
MA	303	Technical Math	5	0	5
ENG	303	Technical Writing	3	0	3
SOC	301	Human Relations	2	0	2
DD	308	General Drafting	2	3	3
ELEC	312	Electrical Machines	<u>5</u>	<u>4</u>	<u>7</u>
			17	7	20

FOURTH QUARTER

MA	304	Technical Math	3	0	3
PHY	304	Physics: Light and Sound	3	2	4
ENG	304	Speech	2	0	2
ELN	306	Basic Electronics	3	4	5
ELEC	313	Electrical Controls & Circuits	<u>3</u>	<u>4</u>	<u>5</u>
			14	10	19

FIFTH QUARTER

ISc	301	Industrial Organization & Management	3	0	3
ELN	307	Industrial Electronics	4	4	6
ELEC	314	Planning Electrical Installations	3	4	5
ELEC	315	Electrical Instrumentation	<u>3</u>	<u>4</u>	<u>5</u>
			13	12	19

SIXTH QUARTER

SOC	302	Economics	3	0	3
ELN	308	Industrial Electronics	3	6	6
ELEC	316	Electrical Power Systems	3	4	5
ELEC	317	Electrical Analysis & Maintenance	<u>3</u>	<u>2</u>	<u>4</u>
			12	12	18

ELECTRONICS TECHNOLOGY

At the turn of the century, electricity had progressed little beyond the experimental stage, and electronics was only a dream in the minds of some of the more far sighted men and women of the day. Yet today, little more than 60 years later, electronics cooks our food, helps us communicate, and makes our leisure hours more enjoyable. During the past half century electronics has been one of the nations fastest growing industries and all indications are that it will continue to grow.

With the tremendous electronics industry that already exists plus new ones appearing there is an ever present need for highly skilled, well-trained men or women. This course of study was set up to meet that need. The graduate of this curriculum will be able to take his or her place in the field of research, development, production, installation, operation, maintenance, or sales of electronic equipment.

CURRICULUM BY QUARTERS

SIX QUARTERS EIGHTEEN MONTHS

C - Class hours per week
L - Lab hours per week
Q - Quarter hours credit

FIRST QUARTER

			<u>C</u>	<u>L</u>	<u>Q</u>
MA	301	Technical Math	5	0	5
PHY	301	Properties of Matter	3	2	4
ENG	301	Reading Improvement	2	0	2
DD	307	General Drafting	2	3	3
ELEC	310	Direct Current Theory & Lab	5	6	8
			17	11	22

SECOND QUARTER

MA	302	Technical Math	5	0	5
PHY	302	Physics: Work, Energy Power	3	2	4
ENG	302	Communicative Skills: English	3	0	3
ELEC	311	Alternating Current Electricity	5	6	8
			16	8	20

THIRD QUARTER

			<u>C</u>	<u>L</u>	<u>Q</u>
MA	303	Technical Math	5	0	5
ENG	303	Technical Writing	3	0	3
SOC	301	Human Relations	2	0	2
ELN	312	Electronics I	<u>5</u>	<u>8</u>	<u>9</u>
			15	8	19

FOURTH QUARTER

MA	304	Technical Math	3	0	3
PHY	304	Physics: Light and Sound	3	2	4
ENG	304	Communicative Skills: Speech	2	0	2
ELN	313	Electronics II	<u>8</u>	<u>8</u>	<u>12</u>
			16	10	21

FIFTH QUARTER

ISc	301	Industrial Organization & Management	3	0	3
ELN	316	Transistor Applications	5	4	7
ELN	317	Communications & Ultra High Frequency	2	4	4
ELN	318	Special Circuitry	<u>5</u>	<u>4</u>	<u>7</u>
			15	12	21

SIXTH QUARTER

SOC	302	Economics	3	0	3
ELN	319	Instrumentation	5	6	8
ELN	320	Circuit Analysis & Maintenance	<u>5</u>	<u>6</u>	<u>8</u>
			13	12	19

TRADE PROGRAMS

AUTOMOTIVE MECHANICS

Purpose of Curriculum

This curriculum provides a training program for developing the basic knowledge and skills needed to inspect, diagnose, repair or adjust automotive vehicles. Manual skills are developed in practical shop work. Thorough understanding of the operating principles involved in the modern automobile come in class assignments, discussion, and shop practice.

Complexity in automotive vehicles increases each year because of scientific discovery and new engineering. These changes are reflected not only in passenger vehicles, but also in trucks, buses and a variety of gasoline-powered equipment. This curriculum provides a basis for the student to compare and adapt to new techniques for servicing and repair as vehicles are changed year by year.

CURRICULUM BY QUARTERS

FOUR QUARTERS TWELVE MONTHS

C - Class hours per week

L - Lab hours per week

S - Shop hours per week

Q - Quarter hours credit

FIRST QUARTER

	<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
AUTO 121 Automotive Engines	3	0	12	7
MA 120 Fundamentals of Mathematics	5	0	0	5
ENG 101 Reading Improvement	2	0	0	2
PHY 104 Applied Physics I	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
	11	2	12	16

SECOND QUARTER

		<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
AUTO 122	Automotive Electrical & Fuel Systems	3	0	12	7
PHY 105	Applied Physics II	1	2	0	2
ENG 102	Communication Skills	2	0	0	2
DD 121	Blueprint Reading	3	0	0	3
		<u>9</u>	<u>2</u>	<u>12</u>	<u>14</u>

THIRD QUARTER

AUTO 123	Automotive Chassis & Suspensions	3	0	12	7
AHR 101	Automotive Air Conditioning	3	0	0	3
SOC 101	Human Relations	2	0	0	2
MECH 112	Welding	0	0	3	1
PHY 106	Applied Physics III	1	2	0	2
		<u>9</u>	<u>2</u>	<u>15</u>	<u>15</u>

FOURTH QUARTER

AUTO 129	Automotive Power Train Systems	3	0	9	6
SOC 103	Management Procedures	3	0	0	3
AUTO 125	Automotive Servicing	3	0	9	6
		<u>9</u>	<u>0</u>	<u>18</u>	<u>15</u>

DRAFTING (ARCHITECTURAL AND MECHANICAL)

Draftsmen and designers are "white collar" workers in more than fifty-two different types of drafting occupations. Both men and women earn better than average wages as draftsmen and/or designers. Since they make drawings of the ideas of an architect or engineer, they become very familiar with a company's product. This is why it is common practice to advance people from the drafting department into supervisory or management positions. Women in particular can earn more in drafting and design than they can in most of the other occupations. This is a field of unlimited opportunity for people who like to draw and create new ideas.

CURRICULUM BY QUARTERS

FOUR QUARTERS TWELVE MONTHS

- C - Class hours per week
- L - Lab hours per week
- S - Shop hours per week
- Q - Quarter hours credit

FIRST QUARTER

				<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>		
DD	131	Drafting		3	0	12	7		
MA	121	Geometry		3	0	0	3		
ENG	101	Reading Improvement		2	0	0	2		
PHY	104	Applied Physics I		1	2	0	2		
DD	105	Drafting Analysis		<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>		
				11	2	12	16		

SECOND QUARTER

DD	132	Drafting		3	0	12	7		
MA	124	Algebra		5	0	0	5		
ENG	102	Communication Skills		2	0	0	2		
PHY	105	Applied Physics		1	2	0	2		
DD	135	Descriptive Geometry		<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>		
				12	6	12	19		

(ARCHITECTURAL OPTION)

THIRD QUARTER

		C	L	S	Q
DD	131 Drafting	3	0	12	7
MA	126 Trigonometry	3	0	0	3
PHY	106 Applied Physics III	1	2	0	2
DD	144 Architectural Materials & Methods	4	0	0	4
DD	143 Architectural Mechanical Equipment	3	0	0	3
		14	2	12	19

FOURTH QUARTER

DD	142 Architectural Drafting	3	0	12	7
DD	145 Specifications and Contracts	3	0	0	3
CIV	101 Surveying	2	0	3	3
SOC	101 Human Relations	2	0	0	2
ISc	102 Industrial Organizations	3	0	0	3
		13	0	15	18

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(MECHANICAL OPTION)

THIRD QUARTER

DD	171 Mechanical Drafting	3	0	12	7
MA	126 Trigonometry	3	0	0	3
PHY	106 Applied Physics III	1	2	0	2
MECH	113 Shop Processes	2	2	0	3
MECH	115 Metallurgy	2	2	0	3
		11	6	12	18

FOURTH QUARTER

DD	172 Mechanical Drafting	3	0	12	7
SOC	101 Human Relations	2	0	0	2
ISc	102 Industrial Organization	3	0	0	3
MECH	114 Shop Processes	2	2	0	3
MECH	116 Metallurgy	2	2	0	3
		12	4	12	18

ELECTRICAL INSTALLATION AND MAINTENANCE

The rapid expansion of the national economy and the increasing development of new electrical products is providing a growing need for qualified people to install and maintain electrical equipment. It is expected that the total requirements for electrical tradesmen will reach 500,000 by 1965 and 700,000 by 1970.

This curriculum will provide a training program in the basic knowledge, fundamentals, and practices involved in the electrical trades. A large portion of which is designed to give the student practical knowledge, application and experience in the fundamentals taught.

CURRICULUM BY QUARTERS

FOUR QUARTERS TWELVE MONTHS

C - Class hours per week
 L - Lab hours per week
 S - Shop hours per week
 Q - Quarter hours credit

<u>FIRST QUARTER</u>	<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
MA 125 Electrical Math	5	0	0	5
ELEC 212 Direct & Alternating Current	7	8	3	12
ENG 101 Reading Improvement	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
	14	8	3	19

SECOND QUARTER

			<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
ELEC 123	Alternating & Direct Current: Machines and Controls		5	10	0	10
DD 120	Building Trades Blueprint Reading and Sketching		5	0	0	5
ENG 102	Communication Skills		2	0	0	2
SOC 101	Human Relations		<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
			14	10	0	19

THIRD QUARTER

ELEC 124	Residential Wiring		5	0	9	8
ELN 118	Industrial Electronics I		4	4	0	6
SOC 103	Management Procedures or					
ISc 102	Industrial Organizations		<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			12	4	9	17

FOURTH QUARTER

ELEC 125	Commercial & Industrial Wiring		5	0	9	8
ELN 119	Industrial Electronics II		<u>5</u>	<u>6</u>	<u>0</u>	<u>8</u>
			10	6	9	16

FARM MACHINERY MECHANICS

Due to the complexity of servicing and repairing today's farm machinery, there is a great demand for Farm Machinery Mechanics. The farm equipment dealers and service shops have expressed a need for skilled persons in this field. Advancement is good, and graduates of this program can adapt themselves for employment in the areas of sales, service, distribution, installation and maintenance of farm machinery.

Farm Machinery Mechanics is a full-time course of study. All systems of diesel and gasoline tractors will be covered in this curriculum.

CURRICULUM BY QUARTERS

FOUR QUARTERS TWELVE MONTHS

C - Class hours per week

L - Lab hours per week

S - Shop hours per week

Q - Quarter hours credit

FIRST QUARTER

			<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
AG	110	Farm Machinery Engines	3	0	12	7
MA	120	Shop Math	5	0	0	5
ENG	101	Reading Improvement	2	0	0	2
PHY	104	Shop Science I	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
			11	2	12	16

THIRD QUARTER

			<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
AG	112	Farm Machinery Fuels & Fuel Systems	2	0	9	5
AG	113	Farm Machinery Hydraulics	3	0	12	7
PHY	106	Shop Science III	$\frac{1}{6}$	$\frac{2}{2}$	$\frac{0}{21}$	$\frac{2}{14}$

FOURTH QUARTER

AG	115	Farm Machinery Suspensions & Implements	2	0	3	3
SOC	101	Human Relations	2	0	0	2
SOC	103	Management Procedures	3	0	0	3
AG	116	Farm Machinery Service & Repair	2	0	6	4
AG	114	Farm Machinery Power Train Systems	$\frac{2}{11}$	$\frac{0}{0}$	$\frac{6}{15}$	$\frac{4}{16}$

MACHINIST

This curriculum was prepared to meet a definite need for training of machinists. Surveys recently completed in North Carolina show that many of the existing industries lack time and facilities for training enough machinist to meet present and planned needs. Expanding industries already located in our State and new industries under development invariably express the need for skilled tradesmen who have the background knowledge and potential to advance.

This guide is designed to give learners the opportunity to acquire basic skills and the related technical information necessary to gain employment and build a profitable career in the machine shop industry.

CURRICULUM BY QUARTERS

FOUR QUARTERS TWELVE MONTHS

C - Class hours per week
L - Lab hours per week
S - Shop hours per week
Q - Quarter hours credit

FIRST QUARTER

			<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
MECH	121	Machine Shop Theory & Practice	3	0	12	7
MA	120	Fundamentals of Mathematics	5	0	0	5
DD	122	Blueprint Reading	5	0	0	5
ENG	101	Reading Improvement	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
			15	0	12	19

SECOND QUARTER

MECH	122	Machine Shop Theory & Practice	3	0	12	7
MA	123	Machinist Mathematics	5	0	0	5
DD	123	Blueprint Reading	3	0	0	3
PHY	104	Applied Physics I	1	2	0	2
ENG	102	Communication Skills	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
			14	2	12	19

<u>THIRD QUARTER</u>		<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
MECH 123	Machine Shop Theory & Practice	3	0	12	7
MECH 124	Structure of Metals	3	2	0	4
PHY 105	Applied Physics II	1	2	0	2
SOC 101	Human Relations	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		9	4	12	15

FOURTH QUARTER

MECH 125	Machine Shop Theory & Practice	3	0	12	7
ISc 101	Industrial Specifications	2	0	0	2
MECH 111	Oxyacetylene Welding	2	0	3	3
MECH 126	Heat Treating Practice	0	0	3	1
ISc 102	Industrial Organization	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		10	0	18	16

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PRACTICAL NURSE EDUCATION

CURRICULUM BY QUARTERS

C - Class hours per week

L - Lab hours per week

CL- Clinical hours per week

Q - Quarter hours credit

<u>FIRST QUARTER</u>	<u>C</u>	<u>L</u>	<u>CL</u>	<u>Q</u>
Practical Nursing I	18	2	3	20

SECOND QUARTER

Practical Nursing II	12	2	21	20
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THIRD QUARTER

Practical Nursing III	10	2	24	19
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FOURTH QUARTER

Practical Nursing IV	10	2	24	<u>19</u>
				78

WELDING

This curriculum was developed to fill the tremendous need for weldors in North Carolina. The recently completed Manpower Survey shows quite clearly that many weldors will be needed annually to fill the present and projected vacancies in the State.

The content of this curriculum is designed to give students sound understanding of the principles, methods, techniques and skills essential for successful employment in the welding field and metals industry

CURRICULUM BY QUARTERS

NINE MONTHS THREE QUARTERS

C - Class hours per week
L - Lab hours per week
S - Shop hours per week
Q - Quarter hours credit

<u>FIRST QUARTER</u>	<u>C</u>	<u>L</u>	<u>S</u>	<u>Q</u>
MA 120 Fundamentals of Mathematics	5	0	0	5
MECH 124 Structure of Metals	3	2	0	4
WELD 110 Hand and Power Tools	0	0	3	1
DD 122 Blueprint Reading	5	0	0	5
WELD 120 Oxacetylene Welding & Cutting	3	0	9	6
	16	2	12	21

SECOND QUARTER

ENG 101 Reading Improvement	2	0	0	2
MA 121 Geometry	3	0	0	3
DD 127 Blueprint Reading	3	0	0	3
ELEC 117 Basic Electricity	3	0	0	3
WELD 111 Arc Welding	3	0	12	7
	14	0	12	18

THIRD QUARTER

WELD 112 Mechanical Testing and Inspection	0	0	6	3
SOC 101 Human Relations	2	0	0	2
WELD 113 Inert Gas Welding	1	0	3	2
WELD 114 Introduction to Pipe Welding	3	0	12	7
	9	0	21	17

EXTENSION COURSES

1. Small Gasoline Engine Repair
2. Electrical Code
3. Practical Electrical Wiring
4. Basic Oxyacetylene Welding
5. Basic Arc Welding
6. Advanced Oxyacetylene Welding
7. Advanced Arc Welding
8. Automatic Transmissions
9. Automotive Electrical Systems
10. Small Appliance Servicing and Repair
11. Commercial Art & Design
12. Practical Electronics
13. Electrical Controls & Circuits
14. Radio & TV Repair & Servicing
15. Family Budgeting
16. Income Tax
17. Small Business Income Tax
18. Fire Service Training
19. Supervisory Developmental Training
20. Slide Rule
21. Rapid Writing
22. Note Taking
23. Interior Design & Decorations
24. Dressmaking and Design
25. Speed Reading

The above is a partial listing of courses to be

offered during 1964-65. Time and dates will be arranged

prior to the beginning of the Fall Quarter. Interested per-

sons should make applications to the Center.

THE FUNDAMENTAL LEARNING LABORATORY

The Fundamental Learning Laboratory is your automated way to higher pay. Interest accelerates when more money for the American worker is brought to the forefront. Too many of our average American workers have spent many hours concentrating on ways and means of "fattening" their "take home pay". The answers to many of their questions are found in the Fundamental Learning Laboratory where they are afforded many opportunities to further their intellectual background. This improvement of the mind of every American is a paramount prerequisite toward promotions resulting from greater efficiency in their jobs. Therefore, "idle dreams" and "wishing for the stars" can now be cast from the mind. The American citizen may take a more positive step toward realizing greater success by individualized training. Individualized training is a fundamental and realistic approach toward maintaining the pace set by automation and space adventures. At the Randolph Industrial Education Center each citizen within this area has this new opportunity to learn, to study, to improve himself in any field in which he chooses. This is our invitation to you to accept the new great adventure to a better way of life for you and your family.

AVAILABLE COURSES

Reading	Arithmetic
Spelling	Algebra
Grammar	Geometry
Composition	Trigonometry
Business Letter Writing	Business Arithmetic
United States History	General Science
United States Geography	Biology
The Constitution	Physics
The Bill of Rights	Chemistry
How a Bill Becomes a Law	Vectors

REQUEST FOR INFORMATION

Registrar
Randolph Industrial Education Center
P.O. Box 939
Asheboro, North Carolina 27203

Telephone 629-1471

Gentlemen: _____ Date _____

Please send me additional information on the courses checked below:

(Cut Here)

- Agricultural Business Auto Mechanics
- Electrical Technology Machine Shop
- Electronics Technology Electrical Maintenance
- Farm Machinery Mechanics Practical Nursing
- Welding Learning Lab
- Drafting Others _____

(Please Indicate)

Please send me an application, as I wish to apply for entrance to the Fall ___ Winter ___ Spring ___ Summer ___ Quarter.

I would like to visit the Center on _____
(Day) (Date)
at _____ a.m., p.m. Please let me know if this
(Time)
time is convenient.

Name _____ Phone _____

Address _____

