CURRICULUM OUTLINE FOR AN AREA

VOCATIONAL-TECHNICAL FOOD

SERVICE PROGRAM

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CHAPTER I

PURPOSE .

The remarkable changes which the Food Service Industry has undergone in recent years have caused a continued growth in the demand for skilled food service personnel. Such changes as advances in food technology, improved processing methods, new trends in public eating habits, and higher standards of living have created new and different types of food service establishments. Each change demands more highly skilled employees than ever before.

Where can these skilled food service workers be found? There are several sources; among these is the area vocational-technical center. Such centers offer high school students the chance for training in a skill. As a part of the high school curriculum this free training may be acquired and keep the student in school at the same time. The programs of these centers may include several areas, among them food service. Formal written guidelines for these new Area Vocational-Technical Food Service Programs are hard to obtain and have been written, apparently, on a local basis only.

It is hoped that the curriculum outline developed in this research may be adapted, with minor local adjustments, to any of the vocationaltechnical food service programs in the State of Oklahoma. It will be written with the overall objective of developing in high school students

an employable skill that may tend to insure career opportunities immediately upon graduation.

CHAPTER II

REVIEW OF LITERATURE

Introduction

The millions of people who eat meals away from home each day appreciate the work of a good cook--or chef, as an expert in this occupation is often called. A restaurant's success as a business enterprise depends in large part on the skill of the workers who prepare the dishes served. It is estimated that restaurants provide one out of six meals eaten in the United States (10). Large increases in population, coupled with greater per capita income, have brought about an accelerated rate of growth in the demand for persons in food service.

The food industry is big business. At the present time the Food Service Industry is ranked the nation's fourth largest (38). Food sales by commercial establishments in 1963 total \$18.5 billion; an increase of 20% over 1958. Projections for the next ten years indicate that the food market will be about \$25 billion per year (10). The 1963 Census of Business published by the United States Bureau of Census (48) indicated that there were approximately 500,000 establishments serving food in 1963. Of the 3,000,000 persons employed in the Food Service Industry, over 50% are employed in commercial establishments (38).

If the nation's population continues to expand at the present rate, the Food Service Industry will experience a similar growth rate (38). Industry expansion must stimulate the development of more

efficient food preparation techniques. Improved equipment and techniques will simplify production processes and make possible greater productivity. As a consequence, the demand for well-trained food workers also will continue to grow.

Commercial food establishments basically can count on 50,000 new jobs per year, provided the following circumstances prevail:

- that the American consumers will continue to spend an additional \$750 million every year for food and beverage eaten away from home,
- that business investors can be found who will spend \$2,500 for each new job created, and
- 3. that the fine balance between wages paid and productivity are not altered disproportionately with price increases which are beyond those obtainable from the consumer (35).

Persons who have completed commercial food service programs, offered by technical and vocational high schools and other post high school educational institutions, may constitute one of the major supply sources for these 50,000 new positions each year.

A History of Vocational Education

Until modern times the need for vocational education was satisfied by apprenticeship. The original apprenticeship concept was practiced from father to son, as it was the custom for the son to carry on his father's trade. In early America, the orphans and poor children were enlisted in apprenticeship training, because learning a trade was the only way they could become self-supporting. Apprenticeship as they knew it involved the trade and related instruction, provision of food, shelter and clothing, drill in the basic three R's, and religious instruction (11). Although this early vocational instruction did produce some skilled workers, most of the nation's skilled manpower was met by the immigration of European workers.

In the 19th Century some schools were established to provide the workers that the increased population demanded. The father-to-son apprenticeship began to decline as did other apprenticeship methods. A few manual labor schools, mechanics institutes, tech institutes and private trade schools were established.

Public education, however, still failed to include any training for employment. In 1876 American manufacturers were introduced to the Russian school shop training idea at the Centennial Exposition. The success of this type of training was evident by the superior craftsmanship of the Europeans (21). An interest in vocational education was aroused by this plan.

The need for training in agriculture, business and homemaking resulted in increasing attention to these areas in public education. Toward the end of the 19th Century some progress was made in offering agricultural education in public secondary school. However, positive action in the development of vocational education came in 1906 when the National Society for the Promotion of Industrial Education was established (21). Society efforts made way for the first federal aid for vocational education.

When the need for vocational education was brought to the attention of Congress, the Commission on National Aid to Vocational Education was created on January 20, 1914. This authorized the President of the United States to appoint a commission of nine members to "consider the subject of national aid for vocational education and report their findings and recommendations" (11).

The Commission sought answers to such questions as

- 1. To what extent is there a need for vocational education in the United States?
- 2. Is there a need for national grants stimulating the states to give vocational education?
- 3. What kinds or forms of vocational education should be stimulated by national grants?
- 4. To what extent should the federal government aid the states through national grants for vocational education (11)?

On June 1, 1914, the Commission reported that there was a great need for providing vocational education in every part of the United States. The report indicated that vocational education could conserve and develop resources; promote a more productive and prosperous agriculture, prevent the waste of human labor, supplement apprenticeship, increase wage-earning power of productive workers and meet the demand for trained workmen. In conclusion it stated,

> Vocational education is therefore needed as a wise business investment for this Nation, because our national prosperity and happiness are at stake and our position in the markets of the world cannot otherwise be maintained (11).

Two and one-half years later, as a result of the commission's report, President Woodrow Wilson signed the Smith-Hughes Act (48) on February 23, 1917. This act provided approximately \$7 million annually to be distributed to the states to promote and develop vocational education as related to agriculture, trade and industrial education and homemaking.

The implimentation of this act was the first big step toward vocational education in the United States. The home economics training provided for by the Smith-Hughes Act primarily included training for women as homemakers. At that time (1917) there was no special need for public training of food service employees. Such an idea probably would have been rejected by the hotel and restaurant operators. Chefs, cooks and bakers trained under the European apprenticeship system were, the main supply source with many unskilled laborers always available. During the 1920's, however, trained workers were beginning to be in short supply. The influx of Europeans began to decrease sharply afer World War I and meanwhile the demand for more skilled workers increased.

Neither food service operators nor educators gave much thought to the problem of training food service workers. However, there was concern about the growing shortage of European-trained workers. A few farsighted leaders in the hospitality industry advocated establishing organized vocational education to public schools. This was done in some local areas. Herman A.Breithaupt established a foods training program at Chadsey High School in Detroit, Michigan in 1939. August Forester set up one of the first food programs at Washburne Trade School in Chicago, Illinois. Paul Muellett organized a program at Edison Tech School in Seattle, Washington (38). In 1946 the Culinary Institute of America, Inc. was established at New Haven, Commecticut.

The men who initiated and successfully carried out these early food service training programs made way for a growing acceptance of the idea of training for the foods industry in the public education system.

Congress recognized the need for additional Federal funds for vocational education, and in 1929 the George-Reed Act (29) authorized from \$500,000 to \$2.5 million to increase the amounts available for agriculture and home economics. The George-Dean Act in 1939 (50) authorized more funds for the further development of vocational education in agriculture, trade and industrial education, home economics and distributive occupations. The George-Dean Act was amended in 1946 to

increase the permanent annual authorization to \$28,850,000. This act, as amended, became known as the George-Barden Act, and it is still a source of Federal funds for vocational education (51).

Meanwhile, at the close of the 1940's the Food Service Industry began to exercise an interest in vocational and trade schools as possible means for providing workers for the industry. In 1955 the Statler Foundation strongly recommended a long-range plan for establishing training programs to meet existing needs and the increased future demand for food services personnel (41).

In more recent years the National Restaurant Association, Council on Hotel, Restaurant and Institutional Education and the Education Institute of the American Hotel and Motel Association have actively advocated the establishment of vocational training programs to meet the skilled needs of the hospitality industry (38).

After decades of offering vocational education in the public school system, it became apparent that vocational education was not meeting its potential. Some drastic changes in direction were needed. A great boon to vocational education in general and the Food Services Industry in particular came about when Public Law 88-210, the Vocational Education Act of 1963, was passed. This act authorized a new permanent program with appropriations for state vocational education programs amounting to \$60 million the first year and up to \$225 million after 1966. The new funds could be expended for state and local vocational education programs without limitation under a broadened definition of vocational education--"fit individuals for gainful employment, embracing all occupations, including business and office occupations not previously covered by existing law" (53).

/ This Vocational Education Act of 1963 authorized vocational education programs for persons in high school, for those out of high school available for full-time study, for persons unemployed or underemployed, and for persons with academic or socio-economic handicaps which prevented success in the regular vocational education programs (53).

Further, the 1963 Act permitted the use of George-Barden and Smith-Hughes money in home economics for home economics training not directed to home activity, but involving homemaking skills for which there were employment opportunities (53).

One of the most significant provisions of the 1963 Act is the provision for establishing area vocational schools. The area technical education program previously authorized by Title VIII of the National Defense Education Act was made permanent by the 1963 Vocational Education Act. In addition to extending this authority, the act permitted the States to expend new funds for the construction of area school facilities (53).

Subsequent to the enactment of the Vocational Education Act of 1963 came Oklahoma's State Question 434, which amended the Oklahoma Constitution to provide for the formation of Area Vocational-Technical School Districts. This amendment allowed several school districts to band together and form a larger area school district with all districts sharing in the cost of the area school expense (44).

Four area schools are now in operation in Oklahoma at Tulsa, Oklahoma City, Ardmore and Duncan. Another school is under construction at Enid and will be ready for the 1967-68 school year. These schools are modern and up-to-date and are keyed to industry requirements after surveying industry's needs.

Five additional districts have been formed in Oklahoma that eventually will have Area Vocational-Technical Schools. It is hoped to have an area vocational-technical school within 50 miles commuting distance of everyone in the State. This would mean at least 11 schools in Oklahoma (44).

Tulsa and Ardmore Area Vocational Schools had food service programs in operation in 1966-67. The new school at Enid will have a food service program next year. The student who graduates from one of these programs will have a basic knowledge of the Food Service Industry and will be prepared to enter the labor market.

> Groundwork for Development of a Curriculum for an Area Vocational-Technical Food Service Program

Hugh B. Wood states that the first procedure in establishing any program is to formulate the educational philosophy (57). The philosophy, whether complicated or simple, must be established in order that common goals may be attained. Wood further states that the fundamentals should provide the core of the curriculum, the frills, the enrichment, and the fads are the basis of continuous experimentation (57).

The real fundamentals of a curriculum are listed as:

- Civic competence the ability to participate in civic affairs and to assume civic responsibilities.
- Vocational competence the ability to get and hold a job (involves personality and character factors as well as vocational skills).
- Family competence the selection of a mate, child care, home management, home mechanics, household mathematics, personal adjustment.
- Personal competence integrity, status, respect for and of others, self control, self guidance, a moral philosophy, and so on (57).

Two publications of the Department of Health, Education and Welfare, Office of Education, were reviewed in a search for information which would be helpful in laying the groundwork for the curriculum outline. Even though the two publications, <u>Organizing a Food-Trade Training</u> <u>Program</u> (38) and its companion publication <u>Quantity Food Preparation</u> (41), were not prepared specifically for vocational-technical education, they were very helpful in preparing this outline.

In <u>Organizing a Food-Trade Training Program</u> (38) the authors have prepared guidelines for a food services program for high school students, post high school students, and adults. This manual deals with such areas as laying the groundwork for program development, planning the program, and operating the program for high school youths.

Actual preparation of foods and the sciences related to food preparation were the objectives of the manual or guide, <u>Quantity Food</u> <u>Preparation</u>. Areas covered in this guide are basic principles of food preparation, science related to food preparation, mathematics related to food preparation, and English related to food preparation. The manual was developed for use in secondary schools.

Literature from many commercial sources and formal textbooks is available for reference providing materials for curriculum aids. Practically no published materials have been specifically developed with the Area Vocational-Technical Food Service Program in mind.

CHAPTER III

PROCEDURE

Past experience in commercial food service and the realization of the impact that Area Vocational-Technical Schools could produce in training employees, led the author to choose to investigate the status of such in Oklahoma.

Interviews with Dr. Francis Tuttle, Oklahoma State Coordinator for Area Vocational-Technical Education, and Miss Blanche Portwood, Oklahoma State Supervisor for Vocational Home Economics Education, ascertained that no curriculum guidelines were in use in the existing area vocational food service programs at Tulsa and Ardmore. It was also learned that none had been prepared for the next program which will open in Enid, Oklahoma. The staffing, housing and equipping of the programs had come first.

Records from the State Office for Area Vocational-Technical Education revealed the Tulsa Area Vocational-Technical Education Center Food Services Program enrollment last year was 18, divided into two classes. At the Southern Oklahoma Area Vocational-Technical Center at Ardmore, there were 25 students divided into two classes. Both these schools and the new center at Enid expect to have a similar number of students during the next school year. These programs include high school students exclusively. In addition to the five existing Area Vocational-Technical Genters, five more area school districts have been formed

through recent local bond issues. This makes a total of ten area schools that are planned so far. It is hoped that 11-15 area schools can be provided in the State of Oklahoma.

On Dr. Tuttle's recommendation a questionnaire (Appendix I) was sent known existing Area Vocational-Technical Centers in other states (Appendix II) seeking information about food service programs in these centers. Guidance in making the questionnaire was given by Miss Mary Leidigh of the FNIA Department of Oklahoma State University.

Replies were received from 28 technical centers showing 11 of these centers offered food service programs. Of these 11 food service programs, only four had any type of written curriculum guidelines. These guidelines had been prepared to meet local conditions and provided no means for adaptation for use in other programs. Information gained by the questionnaire was not complete, but did substantiate the need for written guidelines for area vocational food service programs.

Visits were made to existing food service programs at Tulsa and Ardmore to benefit from the experiences of programs which had been in operation. Although there were no written curriculum guidelines at either of these schools, the problems and experiences which had been encountered at each school were useful in formulating the curriculum outline.

A review of the literature (Chapter II) which is available about food service programs was then made. Since the area vocational-technical concept is relatively new, literature from all resources was checked including: The Department of Health, Education and Welfare, the United States Department of Labor, and the Oklahoma State Board for Vocational Education. As Hugh B. Wood suggests in his Foundations of Curriculum

<u>Planning and Development</u>, the educational philosophy was established first (Appendix III).

With the educational philosophy decided, information was compiled concerning the needs of the students and the guidelines for the course. Next came the establishment of the objectives of the proposed curriculum outline (Appendix IV). Both general and specific objectives were decided upon.

Through a process of satisfying the objectives set forth, the information compiled from the review of literature was arranged to assist in forming the curriculum outline.

CHAPTER IV

RESULTS - CURRICULUM

Introduction

Since the educational system in the State of Oklahoma is based on 180 days or 36 weeks of instruction, this outline was developed on a 36 week basis. The daily class periods last for three hours, including one hour in theory and two hours in the kitchen or laboratory.

The proposed course content includes technical information and necessary manipulative skills needed to seek employment in restaurants, hospitals, or institutional food service facilities. The outline is divided into five units of work to include orientation, sanitation, equipment, food management, and career placement.

The curriculum is planned to include lectures, demonstrations, guest speakers, movies, filmstrips, field trips, written assignments, laboratory experiences, and on-the-job training.

SUGGESTED CURRICULUM SCHEDULE AND OBJECTIVES

Unit I	Orientation
	To become oriented to the course in supervised food service To develop an understanding of the nature of the work of a food service worker To recognize the personal qualities desired for the food service employee
Unit II	Sanitation
	To develop knowledge and understanding of food handling and essential health practices To develop an appreciation for good housekeeping practices and an understanding of its relation- ship to sanitation
Unit III	Equipment
	To develop knowledge and understanding in selection of appropriate equipment for specific tasks To recognize safety hazards and ways of preventing accidents
Unit IV .	Food Management (Storage, Nutrition, Salads & Dressings, Baked Flour Products, Protein Foods, Sauces & Gravies, Soups & Vegetables, Desserts, Miscellaneous, and Conclusion)
	To develop understanding of adequate facilities for food storage To develop an understanding of the importance of
	human nutrition To recognize factors which contribute to palat- ability and appearance of foods which exemplify "standard products"
	To develop desirable health and sanitary housekeep- ing practices in relation to food handling
	To develop knowledge and skills in quantity food preparation
	To develop the ability to use and care for equip- ment efficiently and safely
	To develop the ability to store food properly
	To gain knowledge and skills in various ways of serving quantity food

- To understand how to make a successful job application
- To understand various employment policies
- To understand how to succeed in a food service career
- To develop an appreciation of the completed food service worker course

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATIO
Unit I. Orientation			
1. To become oriented to course in super-	Teacher explains:		
vised food service	A. Why and how this course was initiated	"The Work That Play Built" Reader's	
	 B. Class organization and procedures 1. Resources to be used 	Digest May, 1965	
	 a. Materials b. Experienced people c. Field trips 1. Group 2. Individual study 	Teacher Lecture	Students wr own ideas o what the fo service ind is
	(Arrange in advance with the Advisory Committee for identification cards to insure entry into commer- cial food establishments)	Advisory Commit- tee of: Hospital Dietitian Restaurant owners(3) Employment office Health department	
стана.	 d. Audiovisual aids e. Reading material 2. Methods of evaluation 3. On-job training 4. Length of periods 5. Laboratory and non-laboratory 	Newspaper	
2. To develop an understanding of the nature of the work of Food Service Workers	C. Acquaint students with classroom lay- out. Invite members of Advisory Com- mittee to visit class and explain job opportunities, and the competencies needed in their particular occupa- tion		

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
UNIT I. con't.			
	Provide opportunity for student questions		
3. To recognize the personal qualities de- sired for Food Service	Students develop score card of desirable qualities for Food Service Employee		n
Employee	Individuals plan a program of self- improvement based on their interest in the Food Service Industry.		Have each studen prepare a self- analysis showing
			their own strengths and weaknesses
		54. -	

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit II. Sanitation			
<pre>1. To develop know- ledge and understanding of food handling and health practices</pre>		Contact County Health Dept. to see if a sanitarian is available for class instruction, if not, ask to use their	
	Define bacteria and explain how they cause food contamination.	course outline and visual aids.	
	Demonstrate the growth and development of bacteria through an experiment using a petri-dish.		
	Illustrate food contamination through the use of opaque or overhead projectors; slides, films and filmstrips.		
	Have students identify common agents causing food spoilage such as rodents, insects, humans.		
	Distribute Health Department literature illustrating bacterial and chemical food poisoning.	Instructor's Guide, Sanitary Food Serv- ce, NAVMED P-1333	
	Students prepare a list of health practices essential for food protection.	Food Service in Institutions, pp. 419-420	
	Use role-playing technique to emphasize unsanitary food handling.	Instructor's Guide, Sanitary Food Serv- ice, pp. 35-38.	

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit III. Equipment			
 To develop know- ledge and understand- ing in selection of appropriate equipment for specific tasks. 		Food S ervice in Institutions	
	Have teacher explain the importance of having the right piece of equipment for a specific task.		
	Give pupils a list of equipment commonly used in quantity food preparation and service.	Hand out sheets of equipment lists which may be ob- tained from equip- ment houses and from the U. S. Printing Office.	
	Assign each student one or more pieces of equipment on which to acquaint the class with the following:	Equipment company representative talk on new innovations.	
	 A. Names of parts B. Uses C. Safety precautions D. Procedure for operating E. Material of which it is made F. Care 	prepared check list for judging reports.	

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit III. con ¹ t.			
2. To recognize safety hazards and ways of preventing accidents.	Discuss in buzz sessions safety hazards which may occur in the food service area.	Prevents Accidents (see examples of handout sheets given)	
	Prepare a list of safety rules to be observed by the class.		

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. Food Manage- ment (Storage)			
1. To develop under- standing of adequate facilities for food	Invite resource person to speak on the impor- tance of adequate food storage.		
storage	Read and discuss the requirements for adequate food storage.	Supervisor of local school lunch pro- gram	Analyze and identify good ar poor facilities observed on fiel trip.
	Class visit local food processing plant.	Teacher lecture	
	<pre>Set up series of experiments demonstrating the effect of improper storage on food. Such as: Food left uncovered in the refrigerator Stalk of celery Butter Cheese Eggs left unrefrigerated Open boxes of spices Meal and flour left in warm places Milk left unrefrigerated Mold on bread Freezing mayonnaise</pre>		Formulate con- clusions on the effects of im- proper storage.

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. Food Service (Nutrition)			
1. To develop an understanding of the importance of human nutrition as related to selection and prepara- tion of foods	nutrition related terms as an introduction. (i.e., food, calorie, balanced diet, nutrient, nutrition, energy food, cellulose, and soluability)		
	Have students read these definitions, discuss and look up food and nutrition terms to in- clude in note book.	FoodsTheir Eco- nomic and Social Values	
	<pre>Have students keep a record of all food (amount and way prepared) eaten during three day period. Teacher explains food needs of individuals using charts, pass-out sheets, deficiency pictures and filmstrips.</pre>	Prepare Meals, p. 45	Have students e uate their indi vidual food rec on the basis of (1) the recomme number of servi daily from the essential four groups, (2) and recommended dai caloric intake, (3) relate to f service industr
2. To recognize factors which contribute to palatability and appearance of food which exemplify "standard products"	topic, "Nutrition is not the entire answer" or basis of meal planning.	Preserving Food Nutrients" from food chartGeneral Foods Kitchen. General Foods Corp., White	

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Nutrition)			
	Use filmstrip to introduce the other palata- bility and appearance factors such as tex- tures, shapes, temperatures, and so on.	"Menu Magic" film- strip	
	Read and discuss desirability of variety in meal planning.		
	Give students opportunity to plan a week's menu applying above learnings.	Meal Management	Have students use check sheet for evaluating week's menu plan.
	Teacher leads discussion and lists on board common food practices which offend the senses, such as over-cooking, excessive liquid, and flaccidity.	How you Plan and Prepare Meals, pp. 65 and 75	Test student's knowledge of menu planning rules using food models
	Show pictures of common standard and sub- standard food products.		
3. To develop desirable health and sanitary housekeeping practices	Teacher review health practices previously studied in Unit II.	Food Service in Institutions	Post class check list of personal practices in an
in relation to food handling	Interpret teacher-prepared check list of Required Personal Practices to be followed in all food handling.		accessible loca- tion for individual and teacher evalu- ation during each
	Review list of housekeeping duties prepared		laboratory period

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. Food Service (Basic Principles)			
<pre>l. To develop know- ledge and skills in quantity food prepara- tion</pre>	Use hand-out sheets and do appropriate exercises on abbreviations, weights, measures, equivalents, recipes, and spice charts.	Food for Fifty. Food Preparation for Quality Type-A Lunches.	
	Demonstrate different methods of weighing or measuring foods, controlling temperature, and combining ingredients.	Food Service in Institutions.	
• • •	Introduce and illustrate each classification of Quantity Food Preparation by using the following outline of learning experiences:		
	 A. Introduce basic knowledge by filmstrips, readings, examples of actual food, and hand-out sheets. Include: Information about ingredients Unique characteristics Nutritive value Principles of cooking Recipes Appropriate food combinations 	Teacher lectures and laboratory demonstrations	At the completion of study of each food class, use one of the follow- ing evaluation devices:
	 B. Demonstrate techniques acceptable for preparing typical food products. Show appropriate filmstrips. Cover the following: 1. Selecting and storing ingredients 2. Readying ingredients for use 	Teacher lectures and laboratory demonstrations	 Objective test Practical examination of preparation: by giving stu- dent the name of dish, num- ber of servings

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Basic Principles)			
	 3. Measuring ingredients 4. Combining ingredients 5. Cooking methods C. Point out equipment and supplies needed for each product. Use filmstrips as needed. D. Set up with students a scorecard for acceptable finished food product. Use filmstrips as needed. E. Demonstrate suitable ways of serving and storing food products from each group. Use previously assigned student reports. Include use of left-overs. 	Teacher lectures and laboratory demonstrations Teacher lectures and laboratory demonstrations	<pre>list of ingredients and time to be servedBUT NO DIRECTIONS. 3. If preferred, give problem the same as number 2 and use for a written test only.</pre>
2. To develop the ability to use and care for equipment effi- ciently and safely	Teacher prepares and presents demonstrations which will acquaint students with each piece of equipment as specific food preparations are introduced.		
3. To develop the ability to store food properly	Assign one or more students the responsibil- ity of setting up each demonstration or laboratory by getting ingredients and equip- ment ready and storing same at the end of the lesson. Make assignments on rotation basis.		Use check sheet for evaluating student's effect- iveness

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Basic Principles)			
4. To gain knowledge and skills in various ways of serving quantity food	Formulate a list of various ways that commercially prepared foods can be served to the public.		
	Assign individual observation visits and class reports for each type of service listed (give students outline of details to include in making their reports).	1. Drive-in	Give oral reports
	Guide students' laboratory practice in serv- ing food by the following methods: A. Cafeteria B. Individual plates C. Buffet D. Hospital tray service E. Receptions		
	Schedule students for actual on-the-job experience in commercial food establishments.		Employer check sheet
(Salads and Dressings)			
	Follow the preceding outline and add experiences for the following at appropriate times:	"Song of the Salad" filmstrip	Teacher and stu- dents judge fin- ished products

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. conit. (Salads and Dressings)			
	Green salads Vegetable salad Fruit salads Meat, fish, poultry and egg salads Frozen salads Gelatin salads Starch based salads Hot salads	"What Makes a Good Salad Good" film⊷ strip	
	French type dressings Mayonnaise dressings Cooked base dressings	Foods for Better Living, pp. 102-131 Food Preparation for Quality Type-A Lunches, pp. 86-103	
			Give objective test covering salads and salad dressings
(Baked Flour Products)	A. Breads 1. Quick breads 2. Yeast breads	Guide to Modern Meals, pp. 308-345 Food for Better Living, pp. 65-82 and 89-101	Teacher and stu- dents judge fin- ished products
		Better Homes and Gardens Cookbook	

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Baked Flour Products)			
		"Muffin Making" filmstrip	
		"Breads you Bake with Yeast" film- strip	
	 B. Pastries 1. Pie crusts a. Regular b. Crumb 2. French pastries 	Pie" filmstrip	Teacher and stu- dents judge fin- ished products
		Guide to Modern Meals, pp. 349-356	
	C. Cookies 1. Dropped 2. Rolled 3. Pressed (Spritz) 4. Bar 5. Molded 6. Refrigerator	Food for Better Living, pp. 196-204 Guide to Modern	dents judge fin- ished products
	D. Cakes 1. With fat 2. Without fat	Living, pp. 206-212	Teacher and stu- dents judge fin- ished products
		filmstrip	Portion control check

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Baked Flour Products)			
		Better Homes and Gardens New Cookbook	
Unit IV. Food Service (Protein Foods)			
	 A. Milk 1. Forms and grades 2. Uses 3. Principles of preparing foods with milk 	Guide to Modern Meals, pp. 225-233 Food for Better Living, pp. 132-159	Teacher and stu dents judge fin ished products
	 B. Eggs Uses in food as a. Egg dishes b. Binders c. Thickeners d. Emulsifiers e. Leaveners f. Additional flavor and color Have guest speaker and/or demonstrator for egg preparation 	Guide to Modern Meals, pp. 225-233 Food for Better Living, pp. 132-159 Guide to Modern Meals, pp. 234-246 Food for Better	Teacher and stu dents judge fin ished products
		Living, pp. 268-277 How you Plan and Prepare Meals, pp. 251-262	

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Jnit IV. con't.			
(Protein Foods)			
	C. Cheese	Meal Management, pp.	
	Kind and uses		dents judge fin-
	1. Very hard 2. Hard		ished products
	3. Semi-soft	Guide to Modern	
	4. Soft	Meals, pp. 247-252	
		How you Plan and	
		Prepare Meals, pp.	
		238-249	
	D. Meat	Guide to Modern	Teacher and stu-
	a. Tender cuts		dents judge fin-
	b. Less tender cuts		ished products
		Food for Better	
		Living, pp. 278-313	
		Food for Fifty, pp. 155-183	
		155-165	
		"Cooking Meat by	
		Moist Heat" film-	
		strip	
		Meat Manual,	
		National Livestock	
		and Meat Board	
		Cooking Meat in	
		Quantity, National Livestock and Meat	
		Board	

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Protein Foods)			
		Meats for Quantity Cookery, Armour and Company	
		"Know Your Lamb" filmstrip	
		Proper Frying, Proctor and Gamble pamphlet	
		Lamb Cookery, American Lamb Coun- cil pamphlet	
		Food Preparation for Quality Type-A Lunches, pp. 39-42	
		Better Homes and Gardens New Cook- book	
	Field trip to wholesale meat department to observe grades of meat and wholesale cuts.		Students give or reports
	Demonstrate retail cuts of meat. Have guest meat cutter.		Have discussion groups

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Protein Foods)			
	 E. Poultry Field trip to local "fried chicken take-out" establishment to see procedures for prepara- tion and frying of chicken. Demonstration by Poultry Department, O. S. U.; techniques of preparing and cooking poultry. Conduct class laboratory preparation of meals based on poultry dishes. 	Foods for Better Living, pp. 323-328	Teacher and stu- dents judge fin- ished products
	 F. Fish and Sea Food 1. Fresh 2. Frozen 3. Shell 	Guide to Modern Meals, pp. 289-297 Food for Better Living, pp. 313-322 Food for Fifty, pp.	ished products
		201-210 How you Plan and Prepare Meals, pp. 292-299 Fish Cookery for One-Hundred	

aboratory class preparation of mea sea food. Sauce Gravy al Sauces gg arbecue ollandaise int ruit	al Basic and Creative Cooking with a Can of Salmon How you Plan and Prepare Meals, pp. 216-222 Food for Fifty, pp. 275-290	Teacher and St dents judge fi ished products
sea food. Sauce Gravy al Sauces gg arbecue ollandaise int	Cooking with a Can of Salmon How you Plan and Prepare Meals, pp. 216-222 Food for Fifty, pp.	dents judge fi
Gravy al Sauces gg arbecue ollandaise int	Prepare Meals, pp. 216-222 Food for Fifty, pp.	dents judge fi
gg arbecue ollandaise int	Food for Fifty, pp. 275-290	
L ULC		
ables resh rozen anned egumes trip to local produce market.	Guide to Modern Meals Food for Fifty, p. 55 How you Plan and	Teacher and st dents judge fi ished products
r a e	esh ozen nned gumes	esh Meals ozen nned Food for Fifty, p. gumes 55

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't.			
(Soups and Vegetables)			
		Foods for Better Living, pp. 169-191	
		Living, pp. 109-191	
		Family Meals and	
		Hospitality, pp.	
		92-109 and 518-526	
	B. Soups		
	1. Stock hase soups	Food Preparation	Teacher and stu-
	a. Meat, fish and poultryb. Vegetable	for Quality Type-A Lunches, pp. 76-86	dents judge fin ished products
	c. Clear	Eulenes, pp. 70-00	Ished produces
	2. Milk base soups	Guide to Modern	
	a. Cream b. Chowder	Meals, pp. 373-378	
	c. Stew - sea foods	Food for Fifty, pp.	
		291-301	
		How you Plan and	
		Prepare Meals, pp.	
		501-503	
Unit IV. Food Service			
(Desserts)			
	A. Desserts		
	1. Custards	Guide to Modern	Teacher and stu
	2. Puddings and pie fillings	Meals, pp. 389-398	dents judge fin
	 Meringues Gelatin desserts 	and 237-240	ished products
	5. Frozen desserts	1	1

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Desserts)			
		How to Plan and Prepare Meals, pp. 345-358	
		Foods for Better Living, pp. 146-153	
Unit IV. Food Service (Miscellaneous)			
	A. Casseroles 1. Vegetable casseroles 2. Protein casseroles	Mealtime, pp. 389- 394	Students do price comparison of 3 types of casse-
	3. Combination casseroles (Vegetable and Protein)	How you Plan and Prepare Meals, pp. 90-92	roles using a cos per serving basis
		Guide to Modern Meals, pp. 450-451	
	B. Beverages 1. Coffee 2. Cocoa 3. Tea	"Coffee Please" filmstrip	
	4. Fruit drinks	How to Plan and Prepare Meals, pp. 360-370	
	C. Sandwiches - Fresh and Frozen		

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't.			
(Miscellaneous)			
	Include:	How to Plan and	
	1. Hearty sandwiches	Prepare Meals, pp.	
	2. Hot sandwiches	224-237	
	3. Finger sandwiches		
		Guide to Modern	
		Meals, pp. 32-332	· · ·
	Field trip to a commercial establishment	10010, pp. 52-552	
·		Food for Fifty, pp.	
	tion of techniques used, preparation and	268-274	
	skills required of a short order cook.		
		Foods for Better	· · · ·
	Field trip to see procedures in operation at		
	a catering service establishment.		
		Local drive in	
	Students demonstrate quantity production of		
	sandwiches.	Local catering serv-	
		ice	
		100	Teacher and stu-
		Fillings to Make the	
		Sandwich, Wheat	use of time and
		Flour Institute	motion study
			mocron seady
Unit IV. Food Service			
(Conclusion)			
	Give students opportunity to gain on-the-job	tse cooperating mem-	Check sheet from
	experience in food service by "farming-out"	bers of the Advisory	
	in local food establishments. Each individ-	Board to help secure	
	ual to work under the supervision of a skilled	positions	
	employee of the establishment.	F	
			e e

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OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit IV. con't. (Conclusion)			
	Class planning, purchasing, preparing, and serving of a series of actual meals consecu- tively. Have students rotate responsibil- ities when appropriate.		
	Follow-up labs with class discussion and summary of suggestions for improving speed and efficiency as well as preparation tech- niques.		After each class lab have students individual form a list of the follow- ing:
			 Suggestions for improving class proce- dure.
			 Suggestions for self- improvement in following labs.

OBJECTIVES	LEARNING EXPERIENCES	RESOURCES	EVALUATION
Unit V. Placement and Evaluation			
1. To understand how to make a successful job application	Show students do's and don't's of personal appearance for the job interview.		
Job apprication	Create student interest by reading article illustrating unsuccessful job interview.	Our Changing World	
	Ask personnel manager from food establishment to discuss job application procedures.		
	Conduct classroom practice interviews between students and representative of Restaurant Association.	State Employment Officer	Panel discussion
	Secure job application forms for practice in interpreting.		
2. To understand various employment policies	Give students a list of employment policies. Study and prepare questions on the following: insurance, social security, labor laws, and job analysis.		
	Invite resource person to answer student questions on employment policies.		
3. To become aware of how to succeed in a food service career	Arrange conference between employer and trainee to discuss strengths and weaknesses observed during on-the-job training.		

OBJECTIVES	LEARNING EXPERIENC	ES	RESOURCES	EVALUATION
Unit V. con't. (Placement and Evalua- tion)				
	Have students relate difficul during on-the-job hours; poin istics in themselves or other may have brought about the di suggest ways these problems of avoided. Successful experien handled in the same manner. Use hand-out sheets on philos	t out character- employees which fficulties and could have been ces could be	pp. 142-144	Give students evaluation check sheets for self- analysis
4. To help develop an appreciation of the completed food service	success.			Have individual write an essay showing persona
worker course				knowledge, skil values, and satisfactions received throug the course
				Have individual students write suggestions for course improve- ments, deletion
				additions or changes

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Science Series: Vitamins.

Swift and Company: Party Plans for Pie. Chicago, Illinois.

CHAPTER V

SUMMARY AND RECOMMENDATIONS

One objective of this study was to determine if a planned curriculum was needed and to develop structure of one for an Area Vocational-Technical Food Service Program. Another objective was to try to make this curriculum such that any of the Oklahoma Area Vocational-Technical Centers could use it with minor local adjustments.

Subobjectives of the study were:

- 1. To become better acquainted with existing area vocationaltechnical food service programs and recent developments in curriculum in the food service area.
- 2. To become better informed about the growth of the food service industry and its current needs for skilled workers.
- 3. To help provide skilled food service workers by developing a curriculum outline which will be useful in producing workers with skills.

Existing literature was used to compile information regarding vocational history and current trends, recent curriculum developments related to food service programs and existing area vocational-technical training in food services.

The proposed curriculum was developed with the overall objective of providing the student with a skill which may be sellable upon completion of the course of study.

The 36 weeks of instruction was divided into five units of instruction. The five units were:

- I. Orientation 1 week. To orientate the student to the course being offered.
- II. Sanitation 1 week. To develop safe food handling and essential health practices.
- III. Equipment 2 weeks. To develop knowledge and understanding of equipment and proper safety practices in handling it.
 - IV. Food Management 30 weeks. To develop experience and understanding in the handling and production of food.
 - V. Career Placement 2 weeks. To develop knowledge in the proper ways of becoming an active member of the food service industry.

The following recommendations are proposed.

- That Area Vocational-Technical Food Service is one means of providing skilled workers for meeting increased demands of the Food Service Industry.
- 2. That in order to coordinate and benefit the Food Service Industry and student, a curriculum outline should be utilized.
- 3. That this outline be used in an effort to help coordinate the food service programs of the Area Vocational-Technical Centers in the State of Oklahoma.
- 4. That this curriculum outline be implemented in an Area Vocational-Technical Center.
- 5. That after a trial period of one year the curriculum outline and class be evaluated, and the outline be revised as needed and considered for use in all Oklahoma Area Vocational-Technical Centers.
- 6. That continued inquiry be made for new and better methods of instruction in Area Vocational-Technical Food Service Programs.

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APPENDIX

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APPENDIX I

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Area Vocational School Food Service Questionnaire

Location of School	·	· · ·	
	Town	S	tate
Name of Director		·	
No. Students Now Enrolled	Hours in LabHours	s in Theory Hou	rs on the Job
No. of Years Food Service Co	ourse Has Been Taught	No. of Instructo	rs in Program
Size of Facility: Lab	Sq. Ft. Clas	ss Room	Sq. Ft.
Are there written curriculum	n guidelines?	yes no	
If yes, is a copy of th	nese guidelines available	e to others?	yesno
Length of Course:	1 year	2 yea	rs
Please list below the areas spent in each area.	of instruction in your p	program and the len	gth of time (weeks)
Course	Time (Weeks)	Course	Time (Weeks)
·			
	· · · ·		· ·
······································			
	<u>.</u>	· · · · · · · · · · · · · · · · · · ·	
			·····
Is any time spent on persona	appearance for job int	terviews?	no yes
		How much?	
Is any time devoted to perso	onal hygiene on the job?	no	yes How much?
Please list the main objecti	ives of your program		
		*****	· · · · · · · · · · · · · · · · · · ·
			<u> </u>

This space is available for any personal comments you might have concerning a food service program. (Feel free to write on back.)

APPENDIX II

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SCHOOLS TO WHICH QUESTIONNAIRE WAS SENT

Alabama

Carver State Technical Trade School P. O. Box 7175, Mobile, Alabama 36607

Arizona

Phoenix College 1202 West Thomas Road, Phoenix, Arizona 85013

Phoenix Union High School, Vocational-Technical Division Phoenix, Arizona

Arkansas

Pines Vocational-Technical School 18th & Hazel, Pine Bluff, Arkansas

Illinois

George Westinghouse Area Vocational School 3301 W. Franklin Blvd., Chicago, Illinois 60624

Whiteside County Area Vocational School 1408 4th Avenue, Sterling, Illinois 61081

Kansas

Southeast Kansas Area Vocational-Technical School McFarland Trade School, Coffeyville, Kansas

Wichita Area Vocational-Technical School 640 North Emporia, Wichita, Kansas

Louisiana

Capitol Area Vocational School P. O. Box 2012, Baton Rouge, Louisiana 70821

Jefferson Davis Vocational-Technical School P. O. Box 1327, Jennings, Louisiana 70546

Orleans Area Vocational-Technical School P. O. Box 8202, New Orleans, Louisiana 70122

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Michigan

Flint Community College Flint, Michigan

Michigan, con't.

- Grand Rapids Community College Grand Rapids, Michigan
- Lansing Community College Lansing, Michigan
- Madison Hights Public Community College Madison Hights, Michigan
- Muskegon Community College Muskegon, Michigan
- Plymouth Community College Plymouth, Michigan
- Pontiac Community College Pontiac, Michigan

New York

- Chemung County Area School 406 Sayre Street, Horseheads, New York
- Lewis County Area School Port Leyden, New York
- Monroe County Area School 9 Elmbrook Drive BOCES #1, Pittsford, New York
- Rockland County Area School 61 Parrott Road, West Nyack, New York
- St. Lawrence County Area School Star Lake, New York
- Seneca-Tomkins Area School Thiaca, New York Ithaca

Ohio

- Defiance-Fulton-Henry-Williams Joint Vocational School 101 Depot Street, Archbold, Ohio 43502
- Erie-Huron-Ottawa Joint Vocational School 1200 Sycamore Lane, Sandusky, Ohio 44870
- Greene County Joint Vocational School 47 North Galloway Street, Xenia, Ohio 45385
- Lawrence County Joint Vocational School Court House, Ironton, Ohio 45638

Ohio, con't,

Penta County Joint Vocational School Oregon Road, Perrysburg, Ohio 43551

Sandusky County Joint Vocational School 100 North Park Avenue, Fremont, Ohio 43420

Stark County Joint Vocational School 7800 Columbus Road, N. E., Louisville, Ohio

Tiffin Area Joint Vocational School Court House, Tiffin, Ohio 44883

Trumbull County Joint Vocational School 110 Orchard Avenue, Hubbard, Ohio 44425

APPENDIX III

PHILOSOPHY

It is believed that each person should:

be equipped to earn a living in a manner that suits the individual,

derive a sense of satisfaction from doing his job, and that

each person should have the opportunity to utilize technical education to acquire the skills necessary for job competency.

Therefore, a program course in food services in Area Vocational-Technical Centers is justified.

> Even though individual circumstances will necessitate adjusting one's approach, an awareness of job similarities will enable the student to make rapid job adjustments.

> Liking to work with food, liking to work with people, and understanding what is required for success, the student will enter the working world prepared and ready to accept a challenge in the Food Service Industry.

APPENDIX

OBJECTIVES

Overall:

To develop in high school students an employable skill that may help insure career opportunities immediately upon graduation.

General:

- 1. To prepare the student to become a beginner in the trade, and to recognize his obligations to his employer and his responsibilities to the public.
- 2. To teach the student trade technology to build the groundwork for future challenges.
- 3. To teach the student the importance of pride in, and appreciation of good workmanship.
- 4. To teach the student proper safety and sanitation precautions which will protect him and his fellow workers.
- 5. To develop in students an awareness of job similarities which will enable him to make rapid job adjustment.

Specific:

To prepare trainees:

- 1. To assist the head cook in preparing and cooking food in large food establishments or serve as the only cook in small operations.
- 2. To learn the correct methods of preparing and cooking all types of food served in hospitals, or commercial food establishments.
- 3. To follow time and energy-saving methods in assembling and arranging utensils and supplies needed for each job.
- 4. To learn hos to plan the sequence and inter-relation of the work to be done each day.
- 5. To learn how to fill containers, get the food to diet kitchens, and serve food on trays for patients.
- 6. To learn how to set up a hot food table and serve food.
- 7. To follow sanitary and time-saving procedures.
 - a. preparing dishes and cooking utensils for washingb. cleaning stoves, work tables, and sinks

8. To gain knowledge of the importance of wise buying and conservation of food as required in successful business practice.

VITA

Benny Clarence Bunch

Candidate for the Degree of

Master of Science

Thesis: CURRICULUM OUTLINE FOR AN OKLAHOMA AREA VOCATIONAL-TECHNICAL FOOD SERVICE PROGRAM

Major Field: Food, Nutrition and Institution Administration

Biographical:

- Personal Data: Born in Oklahoma City, Oklahoma, December 31, 1940, the son of Clarence E. and Myrtle E. Bunch.
- Education: Attended grades one through four at Geary, Oklahoma, five through seven at Chicasha, Oklahoma, and the remainder of public school at Stillwater, Oklahoma, graduating May 24, 1958; received Bachelor of Science degree from Oklahoma State University, Stillwater, Oklahoma, in 1963 with a major in Hotel and Restaurant Administration.
- Professional experience: Assistant manager, Ramada Inn, Houston, Texas, February, 1963 - November, 1963. Assistant Manager and Manager, Holiday Inn Restaurant, Stillwater, Oklahoma, December, 1963 - May, 1965.