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THE IDENTIFICATION OF COMMON COURSES IN PARAMEDICAL EDUCATION.  
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\*JOB ANALYSIS, WORKSHOPS, TEACHER WORKSHOP, \*EDUCATION,  
MEDICAL SERVICES, NURSES, PHYSICAL THERAPIST,  
\*PARAMEDICAL OCCUPATIONS EDUCATION, TEMPE, ARIZONA

INTEGRATION OF PARAMEDICAL EDUCATION THROUGH CONSOLIDATION OF RELATED TRAINING WAS STUDIED AS A FIRST STEP IN CURRICULUM DESIGN FOR MAXIMUM EFFICIENCY OF EDUCATIONAL PROGRAMS WHICH WILL MEET THE CHANGING REQUIREMENTS OF MEDICAL CARE OCCUPATIONS. THE OBJECTIVES WERE TO DETERMINE--(1) COURSES COMMON TO PRESENT PARAMEDICAL EDUCATION PROGRAMS, (2) THE NATURE OF SUCH COMMONALITIES, AND (3) GUIDELINES FOR THE INTEGRATION OF THESE PROGRAMS. ALL MAJOR MEDICAL, DENTAL, AND PARAMEDICAL GROUPS FROM UNIVERSITY, JUNIOR COLLEGE, HIGH SCHOOL, AND HOSPITAL PROGRAMS IN A METROPOLITAN AREA WERE REPRESENTED IN A WORKSHOP OF 24 PARAMEDICAL EDUCATORS WHO MET WEEKLY FOR 6 MONTHS. MEMBERS OF THE WORKSHOP GATHERED CURRICULUM MATERIALS FOR 20 PARAMEDICAL CAREERS FROM 126 EDUCATION PROGRAMS CONSISTING OF 2,613 COURSE TITLES IN 110 SEPARATE INSTITUTIONS THROUGHOUT THE UNITED STATES. COMPUTER PRINT-OUTS LISTED CAREERS, COURSES, SUBJECT CLASSIFICATIONS, AND RELATED DESCRIPTIVE DATA SUCH AS NUMBER OF CLOCK HOURS FOR EACH IN LECTURE, LABORATORY, AND CLINICAL EXPERIENCE. OF THE 126 GENERAL SUBJECT CLASSIFICATIONS, 78 WERE COMMON TO 2 OR MORE PARAMEDICAL FIELDS. THERE APPEARED TO BE A DIFFERENCE OF OPINION AMONG CURRICULUM DEVELOPERS OF PARAMEDICAL EDUCATION PROGRAMS AND A NEED FOR A STUDY IN EACH OF THE PARAMEDICAL CAREERS OF THE TASKS PERFORMED BY THE PRACTITIONERS. (JM)

U. S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE  
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The Identification of Common Courses  
in  
Paramedical Education

College of Education  
Arizona State University  
Tempe, Arizona  
July 15, 1966

**ED O 10 190**

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## SUMMARY OF PROJECT

- A. Grant number OE-6-85-032
- B. Title: The Identification of Common Courses in Paramedical Education
- C. Investigator: Dr. Bill J. Fullerton, Professor and Chairman of the Department of Secondary Education, Arizona State University
- D. Institution: Arizona State University, Tempe, Arizona
- E. Duration: November 15, 1965 to July 15, 1966
- F. Purpose and Objectives:

Health care of the highest quality for all who need it is a goal that cannot be realized in any community where there are serious shortages of medical and paramedical personnel. The existence of such shortages is a serious problem of our times. Many educators, hospital administrators, physicians and public administrators believe that a fragmented system of education in the paramedical fields is to some extent responsible for this situation. They point to the difficulties experienced in recruiting qualified students, the high drop-out rate (one-third to two-thirds of those who enroll), the high cost of instruction due to small classes and limited use of expensive equipment, lack of enough qualified faculty, and the frustrating discrepancies that occur between training programs and job requirements.

The Identification of Common Courses in Paramedical Education is an attempt to explore the integration of paramedical education through curriculum consolidation of related training programs. The overall objective of this research is to design curricula based on the changing requirements of medical care for educational programs with maximum efficiency. The objectives

of this phase of the research--the first step in designing these curricula--are to determine courses common to present paramedical education programs, the nature of such commonalities, and guidelines for the integration of these programs.

G. Procedure:

A workshop was established consisting of 24 paramedical educators representing all major medical, dental, and paramedical groups from university, junior college, high school and hospital programs in the Phoenix metropolitan area. This workshop met regularly each week for six months under the direction of the Principal Investigator, Dr. Bill J. Fullerton, and Dr. Willard Fetterhoff, a Curriculum Specialist in the Department of Secondary Education at Arizona State University. Members of the workshop gathered curriculum materials for 20 paramedical careers from 126 education programs in 110 separate institutions throughout the United States. Each member of the workshop collected materials in the area of his or her specialization, and professional judgment was exercised in analyzing, classifying, and interpreting these materials. Consistency in interpretation and interdisciplinary comparative judgment were achieved through the regular meetings of the entire workshop. Altogether, 2,613 course titles and their contents were examined. These were reduced to 126 general subject classifications. The subject classifications were programmed in a computer, together with the level (high school, post-high school, junior college, university or other) of education at which they occurred in each institution, and the depth of content as indicated by the number of clock hours devoted to classroom lectures, laboratory experience, and directed clinical practice.

The 20 educational programs analyzed by the workshop were as follows: three-year registered nurse, two-year registered nurse, licensed practical nurse, nurse aide, dental assistant, medical technologist, medical secretary, radiologic technologist, dental hygienist, dental technician, physical therapist, physical therapy assistant, occupational therapist, occupational therapy assistant, inhalation therapist, medical assistant, laboratory assistant, medical record librarian, medical record technician, radioisotope technician. The number of programs examined for each career ranged from one for dental technicians and physical therapy assistants to ten or more for three-year R.N.'s, two-year R.N.'s, medical technologists and medical record librarians.

Two computer print-outs were made listing the 20 para-medical careers studied and the courses required for each career in each of the 126 schools from which curriculum materials had been obtained. All 2,613 courses were listed under their respective subject classifications as indicated by the workshop, with the number of clock hours for each in lecture, laboratory, and clinical experience. Each course was identified also by the institution and the level of instruction at which it was given. A complete review of the first computer print-out was made by the workshop and re-interpretations of some of the data were programmed for the second computer run.

It was evident at this point that considerable variation was to be found in many of the same courses offered by different institutions. For example, the workshop had identified 22 separate courses under the subject classification of "Nursing, Fundamentals". These 22 courses are offered in 12 different schools. Two of the

schools require laboratory experience in Nursing Fundamentals; four of them require clinical practice in their fundamentals course; and the others require only classroom lectures. In the four schools requiring clinical practice in their fundamental course, the amount of clinical practice ranges from 20 to 360 clock hours. The total clock-hour requirement in Nursing Fundamentals in the 12 schools offering this course ranges from 18 hours to 465 hours.

Numerical comparisons were then made of the 20 paramedical programs for which information was obtained. The number of course titles examined by the workshop and the number of subject classifications to which they were reduced were listed for each program. For example, 18 three-year R.N. programs had been examined by the workshop and found to contain 425 different course titles. These were reduced to 27 subject classifications. Similarly, 12 medical technologist programs had been examined containing 175 course titles, which were reduced by the workshop to 32 subject classifications. The large number of course titles in each occupation indicated a general absence of standardization among schools educating students for the same career, an observation further borne out by the wide variations in clock hours for similar courses at different institutions. In reducing the large number of course titles to a smaller number of subject classifications, the workshop only approximated a standardization of subject matter, and it was recognized that only general rather than specific commonalities between programs could be identified.

On this basis it was found that a very wide range of commonalities existed in the subject classifications common to

more than one career program. The number of programs to which each of the subject classifications was found to be common extended from two to 16. Forty-eight of the 126 subject classifications were limited to one field only. Seventy-eight of the subject classifications were common to more than one field. The 11 most frequent commonalities, with the number of career programs requiring the subject in each case, were: general education--16; anatomy and physiology--15; microbiology--14; uncommon courses--14; anatomy--12; professional ethics--12; general psychology--12; electives--12; medical terminology--11; mathematics--9; general chemistry--9. Forty of the subject classifications were common to four or more paramedical careers.

Further analysis of the commonalities between and among the 20 paramedical careers revealed that each career has substantial numbers of subject classifications in common with each of several other careers. In a few cases the absence or near absence of commonality was also revealed. For example, the three-year registered nurse program has 16 subject classifications in common with the licensed practical nurse program; 10 in common with the radiologic technologist program; 14 in common with the dental hygienist program; and only one in common with the dental technician program.

A detailed analysis of variations in clock hours required by different institutions within each subject classification was made by the workshop. The range was determined for each subject classification within each of the 20 paramedical education programs. Microbiology, for example, which was found to be among the most common subject classifications (required in 14 of

the 20 paramedical education programs studied), had a range in clock hours for three-year registered nurses from 36 at one school to 256 at another. The same course ranged from 55 to 128 clock hours for two-year registered nurse programs. For medical technologists, the range was from 96 to 880 clock hours.

A series of charts and tables containing the results of the computer print-out and the analyses and interpretations of those results by the workshop were constructed for final evaluation and summarization of the findings. These were made initially by the Principal Investigator and his professional staff, then submitted to the individual members of the workshop for editing. The report containing results and conclusions represents a consensus of the professional judgment of the members of the workshop based on the curriculum materials studied and the computer analysis of these materials.

#### H. Results and Conclusions:

Curricula for 20 paramedical education programs from 126 separate schools located in 110 institutions in 36 states revealed 2,613 course titles. These were reduced to 126 general subject classifications. Seventy-eight of these were found to be common to two or more paramedical education programs.

Of the 20 paramedical education programs studied, 12 were found to have a high incidence of commonality of general subject classifications. Eight were found to have a lower incidence of commonality. For the most part, those with the higher incidence of commonality were the programs requiring higher levels of skill and knowledge. Common courses were less evident in programs requiring less training.



Considerable variations were revealed in course titles and course content (reflected by clock hours in lecture, laboratory and clinical experience) among institutions offering educational programs for the same paramedical careers. The minimum and maximum total clock hours required in any given subject classification varied extensively among different paramedical fields and within the same field.

In paramedical careers where national accrediting agencies exist or where the Council on Medical Education of the American Medical Association has established minimum essentials, the educational programs tend to be more standardized and do not vary as greatly as in careers for which educational standards are not prescribed. The extent of such standardization, however, is considerably less than might be expected. Differences of opinion among curriculum developers of all paramedical education programs are evidenced by the extensive differences in clock hours required in similar courses of study and in the different courses of study prescribed in the same paramedical fields.

It was clearly evident that many of the paramedical education programs in which students are trained for different careers require much of the same course content. This would indicate that curriculum developers can, in fact, combine courses, classes, faculty, facilities and materials for more efficient and economical programs.

Equally evident, however, is the need for behavioral objectives to be more precisely identified than has yet been done if significant results are to be accomplished. Studies should be conducted in each of the paramedical fields to ascertain the

relationships between required educational programs and actual job experience. The irregularity of general education requirements (communications, humanities, social and behavioral sciences, science and mathematics, and physical education) raises questions not of the value of general education but of its relationship to the particular requirements of each paramedical career. The proliferation of technical course titles and their wide variation in content and depth suggests that most of them could be substantially redesigned without endangering accreditation standards. A strong possibility exists that much of the content of both general education and technical courses could be taught in centrally located school systems rather than for each institution to expend time, talent, facilities and finances on small and possibly inferior classes.

The results of this research suggest rather strongly that paramedical education today reflects the personal philosophies of the educators who have developed a variety of curricula. Additional research would provide a foundation upon which to base new philosophical approaches to paramedical education which are more effective in terms of the tasks to be performed, and which are better able to meet the demands of scientific progress and changing health manpower requirements.

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## CHAPTER I

### THE PROBLEM AND SIGNIFICANCE OF THE STUDY

#### General Background for the Study

The need for qualified individuals to administer to the health service or paramedical responsibilities associated with the activities of members of the medical and dental professions is apparent. Equally as noticeable is the fact that individuals engaged in allied medical and health service activities are always in short supply. Concerned individuals indicate, however, that the critical element is the alarming statistical information which reveals the increasing number of shortages of fully prepared graduates who are qualified and skilled in the many paramedical occupations and career fields. Charles A. Boyle<sup>1</sup> reported in a current survey conducted by the Arizona State Employment Service that 14,280 persons were employed in 16 health service occupations in the State of Arizona. Of this number, 7,800 were employed in the Phoenix metropolitan area. The survey revealed that there were positions vacant at that time in each of the 16 paramedical occupations. This fact is serious enough, but more alarming were the survey figures which (taking into consideration the demand, the replacements, and the deficits) projected a net shortage of 2,321 persons in these 16 health service occupations in Arizona by 1970. Boyle reported further that an additional deficit could be anticipated as a result of the population growth in Arizona which has averaged an increase of seven per cent or more annually the past 15 years. Additional shortages will also result because of the recent Kerr-Mills and Medicare legislation, and because of a trend which

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<sup>1</sup>Charles A. Boyle, "Manpower Trends in Selected Paramedical Occupations," Manpower Planning and Employment Development Section, Arizona State Employment Service, June, 1965.

indicates people, with increasing frequency, are making demands and utilization of hospitals and other health agencies.

The increased specialization of health services, the recent social concern for extending health care, and the lengthening life span, all stress the need to direct our attention upon the preparation of personnel for paramedical careers. This problem should be of great concern to all of us and stated in direct and simple terms focuses attention upon (1) a shortage of paramedical service personnel and (2) programs which prepare qualified individuals for careers in paramedical occupations.

#### The Need for Study

Health agencies ranging from the Office of the Surgeon General to local hospital directors' offices are aware of the need to meet the critical shortage of personnel prepared in the paramedical occupations. They are also mindful of the need for improved efficiency in selection, education, and retention practices of paramedical personnel in an effort to help provide adequate health services for the present as well as to meet the demands of the future. In a survey conducted by Good Samaritan Hospital it was revealed there were between 1,200 and 1,300 students enrolled in health occupation training programs in the Phoenix metropolitan area in the spring semester of 1965. On the basis of past experience, not more than one-third of these students are expected to complete their training. This is a net annual graduation of less than 400, yet present population growth patterns in the Phoenix area alone requires an annual graduation of 600 to 700.<sup>2</sup>

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<sup>2</sup>Survey conducted by Good Samaritan Hospital, Phoenix, Arizona, March, 1965.

Many educators, hospital administrators, physicians and interested observers throughout the country believe that the present fragmented system of education for paramedical careers is to some extent responsible for these shortages.<sup>3</sup>

#### The Statement of the Problem

It would appear from the foregoing discussion that a need exists to study several aspects of the problem area. This investigation, however, was confined to the curricular elements related to the problem area. It was believed that initial research efforts should be aimed at seeking answers to the following questions: are there courses required in paramedical education programs which are common to all or many of these programs? If so, what is the nature of this commonality and to what extent does the commonality exist? Can guidelines be established, based on the findings of this research, leading to a single paramedical education center and developing an integrated approach to the curriculum of several related paramedical education programs?

#### Delimitations of the Study

Paramedical career fields for which education programs are offered in the Phoenix, Arizona metropolitan area were studied. In addition, data were collected and analyzed from out-of-state paramedical education programs not now available in the Phoenix area, but for which a recognized need exists at the present time. In all, a total of 20 paramedical careers were finally included in the study. They are listed below:

1. Three-year Registered Nurse
2. Two-year Registered Nurse
3. Licensed Practical Nurse
4. Nurse Aide
5. Dental Assistant
6. Medical Technologist

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<sup>3</sup>Several of these persons are referred to by name in the following section on Research Design and Procedures of this report. These observations are also to be found in the report of the National Task Force on Health Manpower, and in the recommendations of the National Advisory Committee on Health Occupations, adopted in December, 1964.

7. Medical Secretary
8. Radiologic Technologist
9. Dental Hygienist
10. Dental Technician
11. Physical Therapist
12. Physical Therapy Assistant
13. Occupational Therapist
14. Occupational Therapy Assistant
15. Inhalation Therapist
16. Medical Assistant
17. Laboratory Assistant
18. Medical Record Librarian
19. Medical Record Technician
20. Radioisotope Technician

Attempts were made to gather curricular materials from other paramedical education programs in addition to those listed above, but without success. The fact that some institutional representatives contacted failed to return materials for analysis or to return useable materials, in terms of this study's research design and procedures, was responsible for this problem. The study, therefore, is now related to the reader, in terms of the data returned relative to the 20 paramedical education programs listed previously.

#### Objectives of the Study

By way of summary, it is appropriate to state the objectives of the study. Stated briefly, the objectives of this investigation were (1) to identify courses which were common to two or more of the various paramedical education programs being researched, and (2) to determine the nature and extent of such commonality insofar as it might help the investigators suggest guidelines for the integration of some parts of these various paramedical education programs.



## CHAPTER II

### RESEARCH DESIGN AND PROCEDURES

#### Method of Research

In general, the method of research employed was descriptive and analytical. The procedures involved, however, were somewhat unique because of the large number of specialized personnel involved in gathering and interpreting data. Therefore, the research methodology could be classified further as a form of action research. The terms of the approved research proposal set up some specifications which made action research involving community participation in this project an important part of the method of investigation. The proposal was designed, hopefully, as the first step of a continuing curriculum project in paramedical education which would ultimately result in improved efficiency in training paramedical specialists and which would help to alleviate shortages of paramedical personnel in the Phoenix metropolitan area. The purpose of the study necessarily called for the interest, support, involvement, and participation of members of the community. This proposal further was designed as an initial or introductory step toward determining if it would be practical to extend the concept of paramedical education consolidation to all of the hospitals and educational institutions in the Phoenix metropolitan area. The idea for the proposal originated in a community-wide cooperative enterprise of many hospital administrators, professional medical people, professional educators, and interested community lay leaders who were cognizant of the need and urgency for action.

The method of research, in other words, might appropriately be described as community cooperation in action research in order to collect, analyze, classify, and interpret data relative to paramedical education for purposes of helping to find solutions to a problem of growing and urgent community concern.

Efforts made to locate related research to support this research proposal revealed that relatively little information was available which was concerned with the development and improvement of paramedical education as a cooperative community enterprise such as envisioned here.

Because of circumstances described above, a Paramedical Curriculum Advisory Committee was selected by the Phoenix Planning Board for a Health Services Education Center. The Phoenix Planning Board has overall responsibility for the planning program, including curriculum development. Table 1 presents a list of the names and the official positions of the 24 members selected for the Paramedical Curriculum Advisory Committee. From the official positions indicated for each of the members of the Committee, it can be noted that the committee was composed of administrative and faculty representatives from high school, junior college, university, and hospital training programs representing the seven major institutions in the Phoenix metropolitan area, and representing all major medical, dental, and paramedical groups. Members of this Advisory Committee represent institutions at which educational programs now exist for training personnel for paramedical careers. Moreover, many of them were officials who were directly responsible for and/or actively engaged in paramedical education and who had access to curricular data in paramedical education.

#### Procedures Utilized in the Study

Under the supervision of the Principal Investigator, Dr. Bill J. Fullerton, Professor and Chairman of the Department of Secondary Education, Arizona State University, Tempe, Arizona and assisted by the Director of the Planning Program, Dr. Arthur M. Lee, Director, Arizona Health Services Education Association, Phoenix, Arizona, and a Planning Advisor, Colonel Harold H. Moore, Assistant Director, Arizona Health Services Education Association, the paramedical Curriculum Advisory Committee undertook the problem of accomplishing the

TABLE 1

PARAMEDICAL CURRICULUM ADVISORY COMMITTEE

<u>Name</u>	<u>Title</u>
Floretta Awe, R.N.	Chairman, Nursing Department Phoenix College
Carl R. Bjorklund, M.D.	Director of Physical Medicine and Rehabilitation, Chairman, Department of Physical Medicine and Rehabilitation Good Samaritan Hospital
Vurlyne Boan, R.N.	Director, School of Nursing Good Samaritan Hospital
Gordon V. Bradshaw, Ph.D.	Professor of Biology Phoenix College
Eugene Chasey, Ed.D.	Assistant Professor of Education Arizona State University
Sister Mary Christina, Ph.D.; R.N.	Director, School of Nursing St. Joseph's Hospital
Paul Crosier	Architectural Consultant Busby Associates
Ralph Fargotstein, M.D.	Director of Laboratories Maricopa County General Hospital
Willard Fetterhoff, Ed.D.	Assistant Professor of Education Arizona State University
Bill J. Fullerton, Ed.D.	Chairman, Department of Secondary Education Professor of Education Arizona State University
Donald Grandgenett	Research Assistant and Faculty Associate Arizona State University
Nelson L. Haggerson, Ph.D.	Professor of Education Arizona State University
Richard Harms, R.P.T.	Director of Rehabilitation Services Good Samaritan Hospital
Clyde Hollister, R.T., B.Sc.	Director of Radiologic Technology Training St. Joseph's Hospital
Robert H. Huntington, D.M.D.	Chairman of Dental Hygiene Arizona State Dental Assoc.

Arthur M. Lee, Ph.D.

Director, Arizona Health Services  
Education Association

Shirley Mannion, R.N.

Department Head Practical Nursing Program  
Phoenix Union High School

Colonel Harold Moore

Assistant Director, Arizona Health  
Services Association

William T. Northey, Ph.D.

Assistant Professor of Microbiology  
Arizona State University

Charles Purtymun, D.M.D.

Chairman of Dental Hygiene  
Arizona State Dental Assoc.

James Riordan, M.D.

Director of Radiology  
St. Joseph's Hospital

Samuel Runyon, A.R.I.T.

Director of Inhalation Therapy  
St. Luke's Hospital

Irwin Spector, M.A.

Director of Research and Curriculum  
Maricopa County Junior College System

Mildred Welnick, R.R.L.

Director, Medical Records Department  
St. Joseph's Hospital

objectives of the research proposal. To review, these objectives were to determine courses common to present paramedical education programs; to determine the nature and extent of such commonalities; and to develop guidelines, if appropriate, for the integration of these programs.

The Paramedical Curriculum Advisory Committee was organized into a Workshop group. Dr. Willard Fetterhoff, a curriculum development specialist in the Department of Secondary Education at Arizona State University, was appointed as the Chairman and Director of the Workshop group by the Principal Investigator. Under Dr. Fetterhoff's supervision and direction, research assignments were made to members of the Paramedical Curriculum Advisory Committee Workshop staff. Assignments were made on the basis of their positions, responsibilities, and experience in the various paramedical careers. A Steering Committee was appointed consisting of the Workshop Chairman, Principal Investigator, and two professors who are specialists in curriculum development from the Department of Secondary Education at Arizona State University, Dr. Nelson Haggerson and Dr. Eugene Chasey. The Steering Committee was responsible for the plan of action at the meeting of the Workshop staff. Research assignments given to the curriculum analysts of the 20 paramedical careers investigated are listed in Table 2. When a comparison of the assignments to researchers of paramedical careers, as listed in Table 2 is made with the official positions of the researchers, as listed in Table 1, it is readily apparent that all researchers were qualified professionals and many of them practitioners in the paramedical careers to which they were assigned investigation responsibilities.

The size of the sample in each of the paramedical programs researched was difficult to determine because there were many educational programs operating in some paramedical career fields and few in others. Another factor which required consideration in this regard was the similarity of many paramedical programs. This similarity was due to accrediting criteria set up by national

TABLE 2

**RESEARCH ASSIGNMENTS TO MEMBERS OF THE PARAMEDICAL  
CURRICULUM ADVISORY COMMITTEE**

NAME	PARAMEDICAL CAREERS RESEARCHED
Floretta S. Awe, R.N.	Two-year Registered Nurse
Carl R. Bjorklund, M.D.	Physical Therapist; Occupational Therapist; Physical Therapy Assistant; Occupational Therapy Assistant
Vurlyne E. Boan, R.N.	Three-year Registered Nurse; Medical Secretary
Sister Mary Christina, R.N., Ph.D.	Three-year Registered Nurse
Richard Harms, R.P.T.	Physical Therapist; Occupational Therapist; Physical Therapy Assistant; Occupational Therapy Assistant
Clyde C. Hollister, R.T., B.Sc.	Radiologic Technologist; Radioisotope Technician
Shirley Mannion, R.N.	Medical Assistant; Licensed Practical Nurse; Nurse Aide
William T. Northey, Ph.D.	Medical Technologist; Laboratory Assistant
Charles Purtymun, D.M.D.	Dental Hygienist; Dental Technician; Dental Assistant
James J. Riordan, M.D.	Radiologic Technologist; Radioisotope Technician
Samuel Runyon, A.R.I.T.	Inhalation Therapy
Mildred B. Welnick, R.R.L.	Medical Record Librarian; Medical Record Technician

associations for some paramedical careers and by the Council on Medical Education of the American Medical Association. The criteria of minimum essentials for Accreditation by these associations has tended to standardize, to some extent, the 10 approved training programs for three-year, two-year, and licensed practical nurses, medical technologists, radiologic technologists, medical record librarians, medical record technicians, occupational therapists, physical therapists, and inhalation therapists.<sup>4</sup> A great number of paramedical trainees in many of the 20 careers investigated were receiving an education in programs which were not accredited by these national associations. Educational programs for many of the paramedical careers requiring fewer skills and less time in preparation, than the 10 mentioned above, varied greatly in content, depth, time, and standards. It was difficult, therefore, to make comparisons between the non-accredited paramedical programs studied and even more difficult to make comparisons between and among all of the 20 different paramedical careers researched. For these reasons and others, such as limitations of time and funds, each researcher on the Paramedical Curriculum Advisory Committee Workshop staff was asked to study the educational programs of at least 10 different training institutions in as many different geographical, metropolitan areas.

It was agreed that each curriculum analyst would have to carefully make professional and experiential judgments in the process of gathering, analyzing, classifying, and interpreting data in his paramedical specialty. The personnel involved in this research activity, as noted in Table 2, were qualified to research in the paramedical fields studied. The extreme specialization of certain paramedical fields necessitated involving such curricular analysts from such fields in gathering, analyzing, classifying, and interpreting

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<sup>4</sup> "Education Programs in Areas Allied to Medicine", Journal of the American Medical Association, Volume 194, Number 7, November 15, 1965.

data. Consistency in interpretation of data was aided by scheduled workshop meetings. Discussion at such meetings resulted in a general consensus relative to the subject classification of different course titles and the interpretation of courses of study. The final subject classifications and interpretations made by the curricular analysts were used as input data for analyses by the computer. The computer was programmed to select and print out the courses required in each paramedical career program, the courses common to various paramedical programs, and finally, the extent and nature of the commonality of such courses in the various paramedical career programs. Conclusions and recommendations were drawn from this data as basic information to the writings of program guidelines for the preparation of paramedical practitioners. Table 3 presents, in diagrammatic form, the research design and procedures utilized in this investigation. Table 4 reveals the names and locations of the various 110 training institutions from which researchers on the Paramedical Curriculum Advisory Committee Workshop staff obtained programs for study and analysis. One hundred twenty-six paramedical education programs were secured for analysis by the various members of the Workshop staff from more than 300 contacts with training institutions. The 126 educational programs analyzed represented 110 training institutions in metropolitan areas, for the most part, within 36 different states of the United States. Satisfactory geographical distribution was obtained.

The Paramedical Curriculum Advisory Committee Workshop staff met in weekly scheduled evening sessions to make plans, report progress, and to analyze and consolidate data collected. Instruments utilized to consolidate and record analyses and interpretations of paramedical education programs were prepared in the first meeting of the Workshop staff. These data collection instruments are included in Appendices A, B, and C of this report. An examination of these appendices will show that the researcher secured information as



TABLE III

## RESEARCH DESIGN AND PROCEDURES

## DESCRIPTIVE METHOD--COMMUNITY COOPERATION IN ACTION RESEARCH

INPUT - (Programs of study collected in the various paramedical fields. Curricular analysts requested these programs from existing training institutions.)

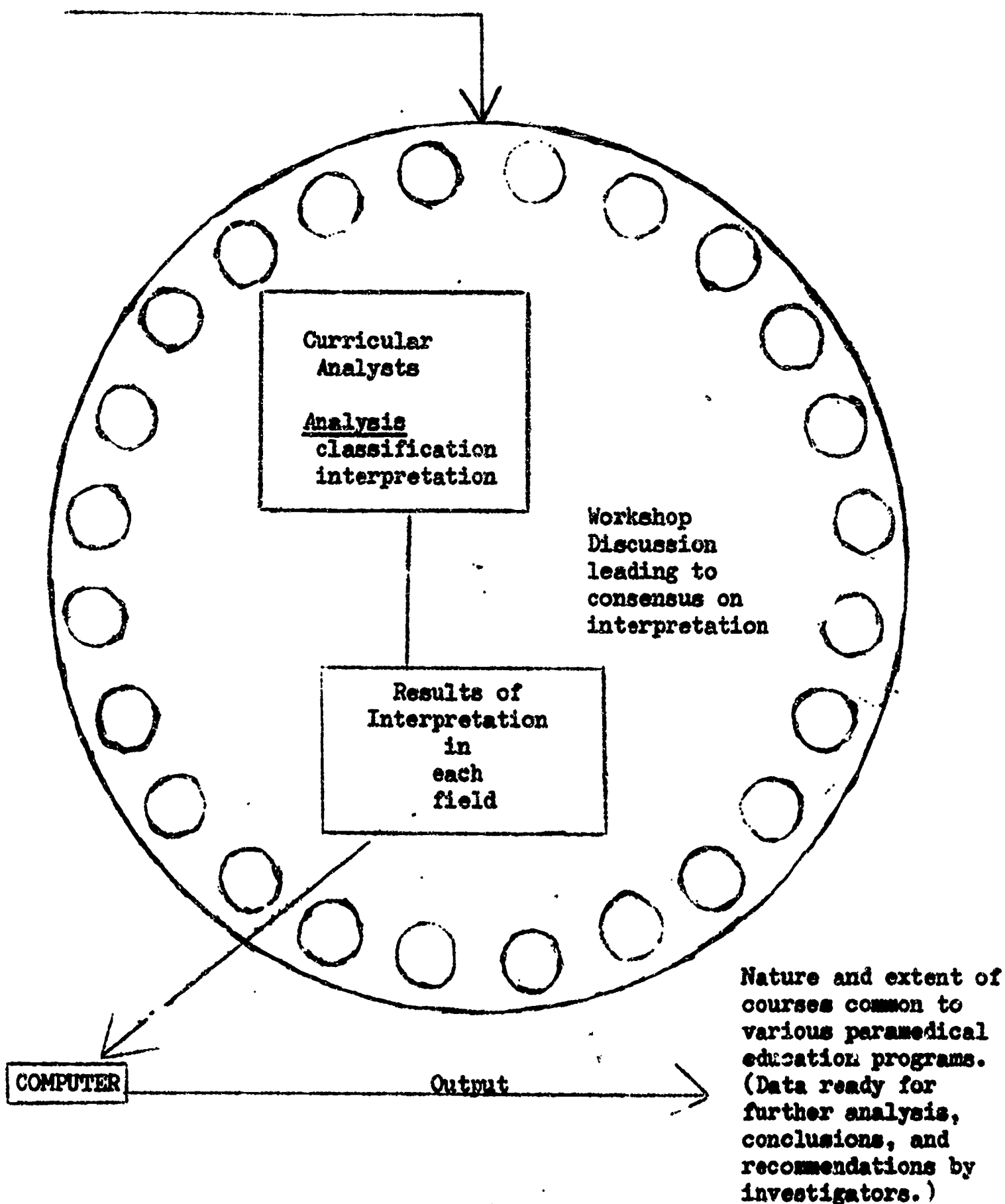


TABLE 4

A CODE NUMBER INDEX TO THE NAME OF AN INSTITUTION AND THE LEVEL OF THAT INSTITUTION FROM WHICH PARAMEDICAL CAREER PROGRAMS WERE ANALYZED

INSTITUTION

CODE NUMBER	NAME	LOCATION	LEVEL*
1	ALEXIAN BROTHERS HOSPITAL	CHICAGO, ILLINOIS	3
2	AMERICAN MEDICAL ASSOCIATION COMMITTEE ON EDUCATION AND HOSPITALS		5
3	ARIZONA STATE COLLEGE	FLAGSTAFF, ARIZONA	1
4	ARIZONA STATE UNIVERSITY	TEMPE, ARIZONA	1
5	BAPTIST MEMORIAL HOSPITAL	MEMPHIS, TENNESSEE	3
6	BELLIN MEMORIAL HOSPITAL	GREEN BAY, WISCONSIN	3
7	BOWMAN GRAY SCHOOL OF MEDICINE (NORTH CAROLINA BAPTIST HOSPITAL)	WINSTON SALEM, NORTH CAROLINA	3
8	BRADLEY UNIVERSITY	PEORIA, ILLINOIS	1
9	BURLINGTON HOSPITAL SCHOOL OF NURSING	BURLINGTON, IOWA	3
10	CARNEGIE COLLEGE	CLEVELAND, OHIO	2
11	CHICAGO WESLEY MEMORIAL	CHICAGO, ILLINOIS	3
12	CLARK COLLEGE	VANCOUVER, WASHINGTON	3
13	COLORADO STATE UNIVERSITY	FORT COLLINS, COLORADO	3
14	COOK COUNTY HOSPITAL	CHICAGO, ILLINOIS	3
15	CRAWFORD W. LONG MEMORIAL HOSPITAL	ATLANTA, GEORGIA	3
16	EASTERN SCHOOL FOR PHYSICIANS' AIDES	NEW YORK, NEW YORK	5
17	ESSEX COLLEGE OF BUSINESS	NEWARK, NEW JERSEY	5
18	EVANGELICAL DEACONESSES	MILWAUKEE, WISCONSIN	5
19	EVERETT JUNIOR COLLEGE	EVERETT, WASHINGTON	2
20	FOOTHILL COLLEGE	LOS ALTOS HILLS, CALIFORNIA	2
21	FULLERTON JUNIOR COLLEGE	FULLERTON, CALIFORNIA	2
22	GOOD SAMARITAN HOSPITAL	PHOENIX, ARIZONA	3
23	HARPER HOSPITAL SCHOOL OF NURSING	DETROIT, MICHIGAN	3
24	HERMAN HOSPITAL	HOUSTON, TEXAS	3

14

\*LEVELS: 1 = University; 2 = Junior College; 3 = Hospital; 4 = High School; 5 = Other Institutions

INSTITUTION

CODE NUMBER	NAME	LOCATION	LEVEL
25	HILLCREST MEDICAL CENTER	TULSA, OKLAHOMA	3
26	HOMER G. PHILLIPS HOSPITAL	ST. LOUIS, MISSOURI	3
27	IDAHO STATE UNIVERSITY	POCATELLO, IDAHO	1
28	INDIANA UNIVERSITY	BLOOMINGTON, INDIANA	1
29	KNAPP COLLEGE OF NURSING	SANTA BARBARA, CALIFORNIA	3
30	LOMA LINDA UNIVERSITY	LOMA LINDA, CALIFORNIA	1
31	LONG BEACH CITY COLLEGE	LONG BEACH, CALIFORNIA	1
32	LOS ANGELES VALLEY COLLEGE	VAN NUYS, CALIFORNIA	1
33	MEDICAL COLLEGE HOSPITAL	CHARLESTON, SOUTH CAROLINA	1
34	MEDICAL COLLEGE OF VIRGINIA	RICHMOND, VIRGINIA	1
35	MERCY COLLEGE OF NURSING	SAN DIEGO, CALIFORNIA	1
36	MICHAEL REESE HOSPITAL AND MEDICAL CENTER	CHICAGO, ILLINOIS	3
37	MICHIGAN STATE UNIVERSITY	EAST LANSING, MICHIGAN	1
38	MONMOUTH MEMORIAL HOSPITAL	LONG BRANCH, NEW JERSEY	3
39	MOUNT MERCY COLLEGE	PITTSBURGH, PENNSYLVANIA	1
40	MOUNT SINAI	NEW YORK CITY, NEW YORK	3
41	NEWPORT HOSPITAL	NEWPORT, RHODE ISLAND	3
42	O'CONNOR HOSPITAL SCHOOL OF NURSING	SAN JOSE, CALIFORNIA	3
43	ORANGE COAST COLLEGE	COSTA MESA, CALIFORNIA	2
44	OTTUMWA HEIGHTS	OTTUMWA, IOWA	1
45	OUR LADY OF THE LAKE	BATON ROUGE, LOUISIANA	3
46	PHOENIX JUNIOR COLLEGE	PHOENIX, ARIZONA	1
47	PHOENIX UNION HIGH SCHOOL	PHOENIX, ARIZONA	4
48	POINT PARK JUNIOR COLLEGE	PITTSBURGH, PENNSYLVANIA	2
49	PROVIDENCE HOSPITAL	SEATTLE, WASHINGTON	3
50	QUEEN OF ANGELS HOSPITAL	LOS ANGELES, CALIFORNIA	3
51	RICHMOND PROFESSIONAL INSTITUTE	RICHMOND, VIRGINIA	5
52	SACRED HEART DOMINICAN COLLEGE (ST. JOSEPH'S HOSPITAL)	HOUSTON, TEXAS	3
53	SCHWEITZER SCHOOL	WICHITA, KANSAS	5
54	SPRINGFIELD TECHNICAL INSTITUTE	SPRINGFIELD, MASSACHUSETTS	5
55	SOUTHWEST PREPARATORY	PHOENIX, ARIZONA	5
56	ST. CLARE'S HOSPITAL	ALLEGANY, NEW YORK	3
57	ST. LUKE'S HOSPITAL	KANSAS CITY, MISSOURI	3

INSTITUTION

CODE NUMBER	NAME	LOCATION	LEVEL
58	ST. JOSEPH'S HOSPITAL	PHOENIX, ARIZONA	3
59	ST. JOSEPH'S HOSPITAL	MOUNT CLEMENS, MICHIGAN	3
60	ST. PETERSBURG JUNIOR COLLEGE	ST. PETERSBURG, FLORIDA	2
61	ST. VINCENT'S HOSPITAL	LOS ANGELES, CALIFORNIA	3
62	SWEDISH COVENANT HOSPITAL	CHICAGO, ILLINOIS	3
63	TUFTS UNIVERSITY	MEDFORD, MASSACHUSETTS	1
64	THOMPSON INSTITUTE	HARRISBURG, PENNSYLVANIA	5
65	UNIVERSITY OF ARIZONA	TUCSON, ARIZONA	1
66	UNIVERSITY OF CALIFORNIA	BERKELEY, CALIFORNIA	1
67	UNIVERSITY OF CALIFORNIA AT LOS ANGELES	LOS ANGELES, CALIFORNIA	1
68	UNIVERSITY OF FLORIDA	GAINESVILLE, FLORIDA	1
69	UNIVERSITY OF ILLINOIS	URBANA, ILLINOIS	1
70	UNIVERSITY OF KANSAS	LAWRENCE, KANSAS	1
71	UNIVERSITY OF MARYLAND	COLLEGE PARK, MARYLAND	1
72	UNIVERSITY OF MICHIGAN	ANN ARBOR, MICHIGAN	1
73	UNIVERSITY OF MISSOURI	COLUMBIA, MISSOURI	1
74	UNIVERSITY OF NEW MEXICO	ALBUQUERQUE, NEW MEXICO	1
75	UNIVERSITY OF NORTH CAROLINA	CHAPEL HILL, NORTH CAROLINA	1
76	UNIVERSITY OF PACIFIC	FOREST GROVE, OREGON	1
77	UNIVERSITY OF SOUTHWESTERN LOUISIANA	LAFAYETTE, LOUISIANA	1
78	UNIVERSITY OF WISCONSIN	MADISON, WISCONSIN	1
79	VITTEBO COLLEGE (ST. FRANCIS HOSPITAL)	LA CROSSE, WISCONSIN	3
80	WASHINGTON UNIVERSITY	SEATTLE, WASHINGTON	1
81	WEBER STATE COLLEGE	OGDEN, UTAH	1
82	YALE UNIVERSITY	NEW HAVEN, CONNECTICUT	1
83	ZWEEGMAN SCHOOL	SAN FRANCISCO, CALIFORNIA	5
84	NATIONAL OFFICE		5
85	MEDICAL COLLEGE OF GEORGIA	AUGUSTA, GEORGIA	5
86	EMORY UNIVERSITY HOSPITAL	ATLANTA, GEORGIA	3
87	KBESS SCHOOL OF PRACTICAL NURSING (PIMA COUNTY GENERAL HOSPITAL)	TUCSON, ARIZONA	3
88	COCHISE JUNIOR COLLEGE	DOUGLAS, ARIZONA	2
89	DAYTON, OHIO SCHOOL OF PRACTICAL NURSING	DAYTON, OHIO	3

INSTITUTION

CODE NUMBER	NAME	LOCATION	LEVEL
90	SAINI ANTHONY HOSPITAL SCHOOL OF PRACTICAL NURSING	DENVER, COLORADO	3
91	MESA JUNIOR COLLEGE	MESA, ARIZONA	2
92	MERCY CENTRAL SCHOOL OF PRACTICAL NURSING	SPRINGFIELD, OHIO	3
93	PIERRE SCHOOL OF PRACTICAL NURSING	PIERRE, SOUTH DAKOTA	5
94	ARIZONA STATE HOSPITAL	PHOENIX, ARIZONA	3
95	STATE UNIVERSITY OF NEW YORK AT BUFFALO	BUFFALO, NEW YORK	1
96	HENDRICK MEMORIAL HOSPITAL	ABILENE, TEXAS	3
97	SINAI HOSPITAL OF BALTIMORE	BALTIMORE, MARYLAND	3
98	SPOKANE COMMUNITY COLLEGE	SPOKANE, WASHINGTON	2
99	ST. JOSEPH'S HOSPITAL	LOWELL, MASSACHUSETTS	3
100	INCARNATE WORD COLLEGE (SANTA ROSA MEDICAL CENTER)	SAN ANTONIO, TEXAS	1
101	MADISON SANATORIUM AND HOSPITAL	MADISON, WISCONSIN	3
102	ST. MARGARET'S HOSPITAL	HAMMOND, INDIANA	3
103	CITY COLLEGE OF SAN FRANCISCO	SAN FRANCISCO, CALIFORNIA	2
104	STANFORD UNIVERSITY (STANFORD MEDICAL CENTER)	STANFORD, CALIFORNIA	1
105	ST. LOUIS UNIVERSITY	ST. LOUIS, MISSOURI	1
106	DUKE UNIVERSITY MEDICAL CENTER	DURHAM, NORTH CAROLINA	1
107	MISERICORDIA HOSPITAL	PHILADELPHIA, PENNSYLVANIA	3
108	DOCTORS HOSPITAL	CLEVELAND HEIGHTS, OHIO	3
109	TUCSON SCHOOL DISTRICT NO. 1	TUCSON, ARIZONA	5
110	PIMA COUNTY GENERAL HOSPITAL, TUCSON	TUCSON, ARIZONA	3

to the level of education (high school, post-high school, junior college, university, or other) at which courses in a given paramedical career were offered in each institution, the titles of the courses required before and after admission to the program, and the depth of content in each subject discipline as revealed by the number of clock hours devoted to classroom lecture work, laboratory experience, directed clinical practice, and total clock hours for each course title. Clock hours were regarded as the best measure of study since practices in the allowance of semester or quarter hours of credit varied widely among the training institutions for comparable clock hours spent in the study of a given subject. Reports recorded on the various instruments utilized for the collection of data were made available to key-punch operators who prepared data cards for the computer. Appendix D, PMRP Form 4, "First Progress Report" was used by the researchers in making progress reports of the analysis and interpretation of educational programs at the half-way point in the study. These reports assisted the Principal Investigator and the Workshop staff in preparing The First Progress Report for the United States Office of Education. Appendix E, PMRP Form 5, was used by the researchers to keep a record of resource materials secured from the various paramedical education institutions contacted.

The curriculum content analysts and the curriculum development specialists on the Workshop Advisory Committee gave special attention to the educational programs in the various institutions in the Phoenix area. Because of familiarity with these programs and easy access to information concerning them, they were used by the researchers as bases for comparison with programs from institutions in other parts of the United States. Requests for additional information were made by the Research Assistant with several paramedical education centers including the College of Health Related Professions at the University of Florida; the Junior College at

St. Louis; St. Mary's Junior College in Minneapolis; Bronx Community College; Chicago City Junior College; Technical and Vocational Centers in Springfield, Massachusetts, Madison, Wisconsin, and Pittsburgh, Pennsylvania; as well as the private medical center of North Carolina Baptist Hospital, Winston-Salem, North Carolina.

Many curricular materials such as catalogs, syllabi, brochures, library materials, course descriptions, pamphlets from training institutions, information concerning national requirements for accreditation of paramedical careers, course guides and communication were collected in the progress of the study. All of these materials were classified and made available to the Committee in its regular Workshop meetings. Records of these resource materials were made on the data collection instrument PMRP Form 5 "Resource Materials" shown in Appendix E of this report.

Throughout the progress of the study, advice and service was available from the several curriculum development specialists and curricular analysts whose names and official positions are listed in Table 1, "Paramedical Curriculum Advisory Committee". In addition to the curricular analysts and the curriculum development specialists, it should be noted that an architectural consultant, Paul Crosier of Busby Associates, met with the Workshop group to audit the procedures of the study for his orientation and to offer professional advice which might later help to coordinate curriculum development with facilities planning.

## CHAPTER III

### THE PRESENTATION AND INTERPRETATION OF DATA

#### The Paramedical Career Programs Analyzed

It was reported in Chapter II on Research Design and Procedures that 126 paramedical programs from 110 different training institutions in 20 paramedical occupations were analyzed. Problems of determining the size of the sample for each of the 20 paramedical programs being researched were discussed. It was decided, however, that each curricular analyst should obtain and analyze at least 10 programs in the paramedical field(s) assigned to him in 10 different training centers that preferably were located in metropolitan areas. Table 5 shows the number of programs finally analyzed in each of the 20 paramedical careers studied and the number of contacts made with training institutions by the curricular analysts on the Paramedical Curriculum Advisory Committee Workshop staff in order to obtain the 126 programs. The curricular analysts examined eight or more programs from different training institutions in each of the following careers: three-year registered nurse, two-year registered nurse, licensed practical nurse, medical technologist, medical secretary, physical therapist, inhalation therapist, and medical record librarian. In some of the other careers only limited numbers of organized, well-defined programs were available for analysis. Only one organized program was analyzed for the dental technician and the physical therapy assistant; two organized programs were obtained for nurse aide, dental assistant, occupational therapist, and medical records technician, although as Table 5 indicates, a greater number of contacts were made in attempts to locate planned, organized programs in these paramedical careers.



TABLE 5

PARAMEDICAL CAREER PROGRAMS ANALYZED FROM 110 INSTITUTIONS

<u>Career Number</u>	<u>Career Title</u>	<u>Institutions Contacted</u>	<u>Programs Analyzed</u>
1	Three-year Registered Nurse	23	18
2	Two-year Registered Nurse	17	11
3	Licensed Practical Nurse	18	9
4	Nurse Aide	28	2
5	Dental Assistant	17	2
6	Medical Technologist	22	12
7	Medical Secretary	14	9
8	Radiologic Technologist	4	3
9	Dental Hygienist	14	4
10	Dental Technician	14	1
11	Physical Therapist	10	9
12	Physical Therapy Assistant	4	1
13	Occupational Therapist	7	7
14	Occupational Therapy Assistant	11	2
15	Inhalation Therapist	14	8
16	Medical Assistant	18	4
17	Laboratory Assistant	12	4
18	Medical Record Librarian	35	15
19	Medical Record Technician	13	2
20	Radioisotope Technician	3	3
		<u>298</u>	<u>126</u>

Code Number Index to the Subject  
Classifications in 20 Paramedical Careers

Data concerning the 126 programs were analyzed and recorded upon the gathering and collection instruments shown in Appendices A, B, and C. From the gathering and collection instruments the data was transferred by key punch operators to computer data cards. The analysis of the 126 paramedical programs for all the careers studied yielded 2,613 separate courses which were classified into general subject classifications by the curricular analysts. Table 6 presents a code number index to the subject classifications into which the 2,613 separate courses were assigned. The curriculum analysts in each field had considerable difficulty in assigning a number of courses to certain subject classifications for a variety of reasons. In some instances the courses examined partook of the nature and scope of more than one subject classification. In other cases the limited description accompanying a particular course made it necessary for the curricular analysts to use their professional and experiential judgments in assigning such a course to a subject classification.

Three of the 126 general subject classifications need especial explanation. Code number 0 listed in Table 6 as "Uncommon Courses" was a classification assigned to course titles which were required in only one of the programs of a given paramedical career. In other words, such courses were not like any other course in that career field. Code number 124 listed in Table 6 as "General Education" was a classification assigned to course titles which the curriculum analyst in a particular field did not regard as a part of the technical training for that career. This classification, in general, included courses offered in the areas of communications, humanities, behavioral and social

TABLE 6

CODE NUMBER INDEX TO THE SUBJECT CLASSIFICATION IN 20 PARAMEDICAL CAREERS

<u>Code Number</u>	<u>Subject Classification</u>
0	Uncommon Courses
1	Nursing Fundamentals
2	Nursing Trends
3	Anatomy
4	Anatomy and Physiology
5	Chemistry, General
6	Human Growth and Development
7	Nursing
8	Nursing, Clinical Conference
9	Clinical Practice, Nursing
10	Physiology
11	Nursing, Medical Surgical
12	Vocational Relationships
13	Ethics, Professional
14	Nutrition
15	Mathematics
16	Psychology, General
17	Health, Personal and Community
18	Human Relationships
19	Sociology
20	Microbiology
21	Pediatrics
22	Nursing, Psychiatric
23	Obstetrics
24	Pharmacology
25	Theology
26	Dietetics
27	First Aid
28	Botany
29	Physics
30	Zoology
31	Nursing, Geriatrics
32	Nursing, Procedures
33	Office Training and Management
34	Psychology, Applied
35	Terminology, Dental
36	Dental Assisting
37	Chemistry, Quantitative
38	Chemistry, Qualitative
39	Chemistry, Organic
40	Chemistry, Inorganic
41	Biochemistry
42	Clinical Laboratory Problems, Medical Technologist
43	Histology
44	Immunology
45	Laboratory Techniques, Medical Technologist

Code NumberSubject Classification

24

46	Urinalysis
47	Blood Bank
48	Cytology
49	Electrocardiograph (EKG)
50	Hematology
51	Micro-technique, Medical Technology
52	Parasitology
53	Pathology
54	Serology
55	Virology
56	Accounting
57	Anatomy - Physics
58	Business Correspondence
59	Shorthand, General and Medical
60	Filing
61	Office Machines
62	Office Practice
63	Secretarial Practice and Procedures
64	Terminology, Medical
65	Typing
66	Economics
67	Medical Science Conferences
68	Administration, Departmental
69	Film Critique
70	Darkroom Chemistry and Technique
71	Diseases, Medical Surgical
72	Equipment, Radiology
73	Radiation Therapy
74	Radiation Safety
75	Radiographic Exposure Techniques
76	Radiographic Positioning
77	Radiographic Procedures
78	Radiography, Intra-Oral
79	Radiography, Pediatrics
80	Radiology, Nursing Procedures
81	Radiation Physics
82	Radiation Therapy
83	Radiographic Isotopes
84	Anesthesia
85	Dental Anatomy
86	Clinical Practice, Dental
87	Dental Health
88	Orientation, Dental
89	Dental Materials
90	Physical Agents, Physical Therapy
91	Neurology
92	Clinical Assignment, Physical Therapy

Code NumberSubject Classification

25

93	Organization & Administration, Physical Therapy
94	Orientation, Physical Therapy
95	Physical Therapy
96	Therapeutic Exercise
97	Orientation, Occupational Therapy
98	Handcrafts
99	Occupational Therapy
100	Principles & Practices, Occupational Therapy
101	Kinesiology
102	Organization & Administration, Occup. Therapy
103	Physical Disabilities
104	Clinical Assignment, Occupational Therapy
105	Tests and Measurement, Physical
106	Organization & Administration, Inhalation Ther.
107	Equipment Operation, Inhalation Therapy
108	Clinical Practice, Inhalation Therapy
109	Inhalation Therapy
110	Orientation, Inhalation Therapy
111	Orientation, Medical Assistant
112	Basal Metabolism Rate (BMR)
113	Laboratory Assistant Responsibilities
114	Organization & Adm., Medical Record Librarian
115	Directed Practice, Medical Record Librarian
116	Medical Record Science, Medical Record Libr.
117	Medical Record Science, Fundamentals
118	Medical Record Science, Legal Aspects
119	Clinical Practice, Radioisotope Technician
120	Diagnostic Procedures, Radioisotope Technician
121	Instrumentation, Radioisotope Technician
122	Radiobiology, Radioisotope Technician
123	Mathematics, Radiological
124	General Education
125	Electives

sciences, sciences and mathematics (where not regarded as part of the technical training), and physical education. Some courses listed as "General Education" in one paramedical career might appropriately be classified by a curricular analyst as technical training in another field. Code number 125 listed in Table 6 as "Electives" was used for the assignment of all course titles identified as electives. In some programs these courses were not identified by title, but simply by the word "elective(s)" with the number of semester or quarter hours of credit required.

It was desirable in this study to assign, and thus reduce, the 2,613 separate course title entries for the 126 programs analyzed to as small a number of broad-field subject classifications as possible and yet still have each subject classification easily recognizable as a separate subject of specific content.

#### The Listing of Courses Reported in the Survey of 20 Paramedical Careers Grouped According to Subject Classifications

Table 7 is a computer print-out listing of all 126 subject classifications for all of the 20 paramedical careers with the various course titles assigned to each subject classification occurring within a given paramedical field. Consider Career Number One, Three-Year Registered Nurse, as an example. Under this paramedical career are listed, by code number, separate subject classifications as follow:

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 1. Nursing Fundamentals         | 11. Nursing, Medical Surgical      |
| 2. Nursing Trends               | 12. Ethics, Professional           |
| 3. Anatomy                      | 14. Nutrition                      |
| 4. Anatomy and Physiology       | 15. Psychology, General            |
| 5. Chemistry, General           | 16. Health, Personal and Community |
| 6. Human Growth and Development | 18. Human Relationships            |
| 7. Nursing                      | 19. Sociology                      |
| 8. Nursing, Clinical Conference | 20. Microbiology                   |
| 9. Nursing, Clinical Practice   | 21. Pediatrics                     |
| 10. Physiology                  | 22. Nursing, Psychiatric           |

- |                  |                         |
|------------------|-------------------------|
| 23. Obstetrics   | 29. Physics             |
| 24. Pharmacology | 31. Nursing, Geriatrics |
| 25. Theology     | 124. General Education  |
| 27. First Aid    | 125. Electives          |

Columns 2, 3, 4, and 5 of Table 7 show the number of clock hours devoted respectively to each separate course in lecture, laboratory, clinical practice, and total clock hours as reported by the various training institutions. For uniformity and consistency the curricular analysts all interpreted one semester hour as equivalent to 15 clock hours and one quarter hour as equivalent to 10 clock hours.

As an example, in Table 7, under the Subject Classification Number 1, "Nursing Fundamentals", of the three-year registered nurse career, consider the first course title, "Adjustment, Professional 1". The institution reporting this course indicated only that a total of 24 total clock hours were spent in lecture, laboratory, or clinical practice or whether part of the 24 hours was spent in each kind of training experience. In the second entry under "Nursing Fundamentals" the course title was listed by the training institution as "Nursing Fundamentals." The computer record in this case shows that students in the three-year registered nurse career are required to devote 408 clock hours to this particular course. Of the total 408 hours required in nursing fundamentals the student is required to spend 48 hours in lecture, no hours in laboratory work, and 360 hours in clinical practice or directed work experience.

Column 6 ("Inst"), Table 7 indicates the code number for the institution. By referring to Table 4 again it can be seen that Institution Number 1 is Alexian Brothers Hospital in Chicago Illinois. Both the course in "Adjustments, Professional 1" and "Nursing Fundamentals" are requirements in this same training institution. In column 7,

TABLE 7  
 A LISTING OF COURSES REPORTED IN THE SURVEY OF 20 PARAMEDICAL CAREERS  
 GROUPED ACCORDING TO SUBJECT CLASSIFICATIONS

THREE-YEAR REGISTERED NURSE	LECT	LAB	CLIN	CAREER NUMBER		CLAS	LEVL
				TOTL	INST		
✓1 NURSING, FUNDAMENTALS	0	0	0	0	1	1	3
ADJUSTMENTS PROFESSIONAL 1	48	0	360	24 <sup>432</sup>	1	1	3
NURSING FUNDAMENTALS	76	0	32	108	9	1	3
NURSING ORIENTATION	36	0	0	36 <sup>72</sup>	18	1	5
NURSING ORIENTATION	36	0	0	36 <sup>72</sup>	18	1	5
NURSING FUNDAMENTALS	130	15	0	145	23	1	3
ADJUSTMENT PROFESSIONAL	18	0	0	18	29	1	3
ADJUSTMENT PROFESSIONAL	22	0	0	22	36	1	3
NURSING FUNDAMENTALS	45	0	30	75	40	1	1
NURSING FUNDAMENTALS	10	62	0	72 <sup>108</sup>	42	1	3
NURSING FUNDAMENTALS	26	10	0	36 <sup>108</sup>	42	1	3
NURSING FUNDAMENTALS	0	0	0	0	42	1	3
RELATIONSHIPS PROFESSIONAL 1	36	0	0	36	50	1	3
RELATIONSHIPS PROFESSIONAL 2	36	0	0	36 <sup>108</sup>	50	1	3
RELATIONSHIPS PROFESSIONAL 3	36	0	0	36	50	1	3
ADJUSTMENTS PROFESSIONAL 1	10	0	0	10	56	1	3
NURSING FUNDAMENTALS	48	48	0	96	58	1	3
NURSING FUNDAMENTALS	48	48	0	96 <sup>144</sup>	58	1	3
NURSING FUNDAMENTALS	56	48	0	104	58	1	3
NURSING FUNDAMENTALS	56	48	0	104	58	1	3
ORIENTATION, BASIC	75	0	0	75	58	1	3



THREE-YEAR REGISTERED NURSE, CONTINUED

1 NURSING, FUNDAMENTALS, CONTINUED  
NURSING FUNDAMENTALS

2 NURSING TRENDS  
NURSING HISTORY OF LEGAL ASPECTS  
NURSING TRENDS 1  
NURSING TRENDS 2  
NURSING SURVEY OF  
NURSING TRENDS  
NURSING TRENDS  
NURSING TRENDS  
NURSING TRENDS  
NURSING TRENDS  
PROFESSIONAL DEVELOPMENT  
PROFESSIONAL TRENDS  
PROFESSIONAL TRENDS  
ADJUSTMENTS PROFESSIONAL 2  
ADJUSTMENTS PROFESSIONAL 3  
NURSING TRENDS  
NURSING TRENDS  
NURSING TRENDS  
NURSING, HISTORY OF

	LECT	LAB	CLIN	CAREER NUMBER	1	CLAS	LEVEL
				TOTL	INST		
	30	0	54	84	61	1	3
	0	0	0	42	1	1	3
	28	0	0	28	11	1	3
	44	0	0	44	11	1	3
	24	0	0	24	10	1	5
	32	0	0	32	10	1	5
	24	0	0	24	22	1	3
	15	0	0	15	23	1	3
	18	0	0	18	29	1	3
	30	0	0	30	40	1	1
	30	0	0	30	40	1	1
	45	0	0	45	41	1	3
	24	0	0	24	42	1	3
	24	0	0	24	42	1	3
	10	0	0	10	56	1	3
	10	0	0	10	56	1	3
	32	0	0	32	58	1	3
	32	0	0	32	58	1	3
	16	0	0	16	61	1	3
	16	0	0	16	61	1	3

3 ANATOMY  
ANATOMY  
ANATOMY  
ANATOMY  
ANATOMY  
ANATOMY  
ANATOMY  
ANATOMY

	32	48	0	80	4	1	3
	32	48	0	80	4	1	3
	57	0	0	57	9	1	2
	62	0	0	62	12	1	1
	0	0	0	0	50	1	1
	48	48	0	96	58	1	2
	48	48	0	96	58	1	2
	32	48	0	80	61	1	1

4 ANATOMY AND PHYSIOLOGY  
ANATOMY AND PHYSIOLOGY 1  
ANATOMY AND PHYSIOLOGY 2  
ANATOMY AND PHYSIOLOGY 3  
SCIENCE BASIC  
ANATOMY AND PHYSIOLOGY  
SCIENCE NATURAL  
ANATOMY AND PHYSIOLOGY  
ANATOMY AND PHYSIOLOGY 1

	0	0	0	48	1	1	3
	0	0	0	36	1	1	3
	0	0	0	36	1	1	3
	57	0	0	57	9	1	2
	0	0	0	112	18	1	2
	230	10	0	240	23	1	3
	54	108	0	162	29	1	2
	54	12	0	126	35	1	1
	23	15	0	38	36	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

.4 ANATOMY AND PHYSIOLOGY, CONTINUED  
 ANATOMY AND PHYSIOLOGY 2  
 ANATOMY AND PHYSIOLOGY 3  
 ANATOMY AND PHYSIOLOGY  
 ANATOMY AND PHYSIOLOGY 1  
 ANATOMY AND PHYSIOLOGY 2  
 ANATOMY AND PHYSIOLOGY 3  
 ANATOMY AND PHYSIOLOGY 4  
 SCIENCE 1  
 SCIENCE 2  
 SCIENCE 3  
 SCIENCE 4  
 ANATOMY AND PHYSIOLOGY  
 SCIENCE 1  
 SCIENCE 2  
 SCIENCE 3

.5 CHEMISTRY, GENERAL

CHEMISTRY 1  
 CHEMISTRY 2  
 CHEMISTRY  
 CHEMISTRY  
 CHEMISTRY  
 CHEMISTRY

.6 HUMAN GROWTH AND DEVELOPMENT  
 PSYCHOLOGY GROWTH DEVELOPMENT  
 CHILD GROWTH AND DEVELOPMENT  
 CHILD GROWTH AND DEVELOPMENT  
 CHILD GROWTH AND DEVELOPMENT  
 HUMAN GROWTH AND DEVELOPMENT  
 PSYCHOLOGY DEVELOPMENTAL

.7 NURSING

GYNECOLOGY  
 NURSING, OCCUPATIONAL HEALTH  
 RECOVERY ROOM, PAST ANESTHETIC  
 REHABILITATION  
 NURSING 1  
 SEMINAR 1 2 3  
 NURSING 1  
 NURSING 2

LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL
			TOTL			
29	11	0	40	36	1	3
31	9	0	40	36	1	3
32	32	0	64	38	1	1
32	32	0	64	38	1	1
40	0	0	40	40	1	1
40	0	0	40	40	1	1
40	0	0	40	40	1	1
40	0	0	40	40	1	1
66	0	0	66	41	1	3
66	0	0	66	41	1	3
38	0	0	38	41	1	3
40	0	0	40	41	1	3
120	0	0	120	42	1	1
95	0	0	95	56	1	3
75	0	0	75	56	1	3
55	0	0	55	56	1	3

0	0	0	24	1	1	3
0	0	0	48	1	1	3
64	0	0	64	11	1	1
0	0	0	0	10	1	2
33	0	0	33	36	1	3
32	32	0	64	38	1	1

48	0	0	48	4	1	3
54	0	0	54	9	1	2
36	0	0	36	35	1	1
36	0	0	36	36	1	3
40	0	0	40	38	1	1
32	0	0	32	61	1	3

0	0	60	60	1	1	3
0	0	30	30	1	1	3
0	0	30	30	1	1	3
0	0	45	45	1	1	3
76	0	120	196	9	1	3
20	0	0	20	9	1	3
195	0	585	780	11	1	3
22	0	12	34	11	1	3
55	0	44	99	11	1	3



THREE-YEAR REGISTERED NURSE, CONTINUED

7 NURSING, CONTINUED

CIVIL DEFENSE AND DISASTER  
 INTRO. NURSING PHARM 1 PHARM 2 COM SKILL

NURSING EMERGENCY  
 NURSING REHABILITATION

NURSING 1

NURSING 1

NURSING 2

NURSING 2

NURSING 2

NURSING 2

NURSING 3

NURSING 3

NURSING 3

NURSING 1

NURSING 2

NURSING 3

NURSING 4

NURSING 5

NURSING 6

NURSING 1

NURSING 2

NURSING 3

NURSING 4

EXPERIENCE-GROUP NURSING

NURSING 1

NURSING 2

LONG TERM ILLNESS-NURSING

NURSING, OUT-PATIENT AND EMERGENCY

NURSING 1

NURSING 2

NURSING 3

NURSING 4

LONG TERM ILLNESS-NURSING

NURSING COMMUNITY HEALTH

NURSING 1

NURSING, C.D.

	LECT	LAB	CLIN	TOTL	INSY	CLAS.	LEVEL
	0	0	0	20	10	1	5
	184	36	44	264	22	1	3
	56	2	184	242	22	1	3
	15	6	0	21	23	1	3
	90	36	72	198	29	1	3
	90	0	288	378	29	1	3
	45	0	144	189	29	1	3
	54	0	252	306	29	1	3
	54	0	252	306	29	1	3
	54	0	252	306	29	1	3
	63	0	252	315	29	1	3
	36	0	288	324	29	1	3
	45	0	144	189	29	1	3
	90	0	576	666	29	1	3
	72	0	54	126	35	1	1
	54	0	270	324	35	1	1
	72	0	324	396	35	1	1
	72	0	324	396	35	1	1
	54	0	378	432	35	1	1
	54	0	370	432	35	1	1
	54	0	20	74	36	1	3
	63	0	32	95	36	1	3
	64	0	70	134	36	1	3
	48	0	84	132	36	1	3
	32	0	280	312	38	1	3
	64	0	96	160	38	1	3
	64	0	96	160	38	1	3
	45	0	90	135	40	1	1
	90	0	300	390	40	1	1
	96	0	70	166	41	1	3
	96	0	70	166	41	1	3
	72	0	160	232	41	1	3
	72	0	160	232	41	1	3
	40	28	140	207	42	1	3
	0	0	0	0	42	1	3
	48	36	36	120	50	1	3
	34	0	80	114	50	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL	1	
				INST		
8 NURSING, CLINICAL CONFERENCES	36	0	0	36	1	3
CLINICAL CONFERENCES	0	0	0	36	1	3
CLINICAL CONFERENCES	0	0	0	36	1	3
CLINICAL CONFERENCES	0	0	0	36	1	3
CLINICAL CONFERENCES	0	0	0	18	1	3
CLINICAL CONFERENCES	0	0	0	36	1	3
CLINICAL CONFERENCES	0	0	0	36	1	3
CLINICAL CONFERENCES	0	0	0	36	1	3
CLINICAL CONFERENCES	0	0	0	18	1	3
CLINICAL CONFERENCES	0	0	0	36	1	3
9 CLINICAL PRACTICE, NURSING	0	0	0	72	1	3
CLINICAL PRACTICE	0	0	0	192	1	3
CLINICAL PRACTICE	0	0	0	96	1	3
CLINICAL PRACTICE	0	0	0	120	1	3
CLINICAL PRACTICE	0	0	0	324	1	3
CLINICAL PRACTICE	0	0	324	324	1	3
CLINICAL PRACTICE	0	0	0	318	1	3
CLINICAL PRACTICE	0	0	0	336	1	3
CLINICAL PRACTICE	0	0	0	396	1	3
CLINICAL PRACTICE	0	0	0	396	1	3
CLINICAL PRACTICE	0	0	0	384	1	3
CLINICAL PRACTICE	0	0	0	396	1	3
CLINICAL PRACTICE	20	0	100	120	1	3
10 PHYSIOLOGY	60	0	0	60	1	1
PHYSIOLOGY	0	0	0	0	1	1
PHYSIOLOGY	48	48	0	96	1	2
PHYSIOLOGY	48	48	0	96	1	2
PHYSIOLOGY	48	64	0	112	1	1
11 NURSING, MEDICAL SURGICAL	0	0	0	54	1	3
NURSING MEDICAL SURGICAL	0	0	0	54	1	3
NURSING MEDICAL SURGICAL	48	0	168	213	1	3
NURSING MEDICAL SURGICAL	0	0	0	48	1	3
NURSING MEDICAL SURGICAL	0	0	0	48	1	3
NURSING MEDICAL SURGICAL	0	0	0	48	1	3
NURSING MEDICAL SURGICAL	0	0	0	60	1	3



THREE-YEAR REGISTERED NURSE, CONTINUED

11 NURSING, MEDICAL SURGICAL CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
				TOTL			
NURSING MEDICAL SURGICAL	48	0	690	738	1	1	3
NURSING MEDICAL SURGICAL	48	0	115	163	1	1	3
NURSING MEDICAL SURGICAL	0	0	150	150	1	1	3
NURSING UROLOGICAL	60	0	250	310	9	1	3
NURSING MEDICAL SURGICAL	60	0	250	310	9	1	3
NURSING MEDICAL SURGICAL	70	0	200	270	9	1	3
NURSING MEDICAL SURGICAL	70	0	200	270	9	1	3
NURSING MEDICAL SURGICAL	70	0	200	270	9	1	3
NURSING MEDICAL SURGICAL	88	0	180	268	11	1	3
NURSING MEDICAL SURGICAL	88	0	180	268	11	1	3
NURSING MEDICAL SURGICAL	88	0	150	238	11	1	3
NURSING MEDICAL SURGICAL	88	0	150	238	11	1	3
NURSING MEDICAL SURGICAL	0	0	0	96	10	0	0
NURSING MEDICAL SURGICAL	0	0	0	96	10	1	5
NURSING MEDICAL SURGICAL	0	0	0	96	10	1	5
NURSING MEDICAL SURGICAL	0	0	0	96	10	1	5
NURSING MEDICAL SURGICAL	0	0	0	32	10	1	5
NURSING MEDICAL SURGICAL	91	0	291	382	22	1	3
MED-SURG-NURS-NUTRITION-DIET-THER-OP RO	144	36	136	316	22	1	3
NURSING MEDICAL SURGICAL	86	0	340	426	22	1	3
NURSING MEDICAL SURGICAL	320	112	0	432	23	1	3
NURSING OPERATING ROOM	18	24	0	42	23	1	3
NURSING, INTENSIVE CARE AND FINAL SEMIN	12	0	100	112	23	1	3
NURSING MEDICAL SURGICAL	100	0	288	388	36	1	3
NURSING MEDICAL SURGICAL	45	0	270	315	36	1	3
NURSING MEDICAL SURGICAL	62	0	230	292	36	1	3
NURSING MEDICAL SURGICAL	96	0	288	384	36	1	3
NURSING MEDICAL SURGICAL	96	0	288	384	36	1	3
NURSING MEDICAL SURGICAL	24	0	68	92	38	1	3
NURSING MEDICAL SURGICAL	96	0	348	444	38	1	3
EPIDEMIOLOGY	30	0	0	30	40	1	1
NURSING MEDICAL SURGICAL	70	0	135	205	40	1	1
NURSING MEDICAL SURGICAL	90	0	300	390	40	1	1
NURSING MEDICAL SURGICAL	90	0	300	390	40	1	1
NURSING MEDICAL SURGICAL	70	0	90	160	40	1	1
NURSING MEDICAL SURGICAL	70	0	45	115	40	1	1
NURSING MEDICAL SURGICAL	100	0	336	436	41	1	1
NURSING MEDICAL SURGICAL	114	0	336	450	41	1	1
NURSING MEDICAL SURGICAL	0	0	336	336	41	1	1
NURSING MEDICAL SURGICAL	145	108	752	1005	42	1	1
NURSING MEDICAL SURGICAL	96	0	180	276	50	1	3
NURSING MEDICAL SURGICAL	96	0	180	276	50	1	3
NURSING MEDICAL SURGICAL	96	0	180	276	50	1	3



3-YEAR REGISTERED NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVL
				TOTL	1	
				INST		
14 NUTRITION, CONTINUED						
NUTRITION	30	0	0	40	1	1
NUTRITION	0	0	0	50	1	1
NUTRITION	32	0	0	50	1	2
NUTRITION	32	0	0	50	1	2
NUTRITION	32	0	0	61	1	3
16 PSYCHOLOGY, GENERAL						
PSYCHOLOGY	0	0	0	36	1	3
PSYCHOLOGY INTRODUCTORY	48	0	0	48	1	3
PSYCHOLOGY	54	0	0	54	1	3
PSYCHOLOGY	54	0	0	54	1	3
PSYCHOLOGY	48	0	0	48	1	2
PSYCHOLOGY	54	0	0	54	1	2
PSYCHOLOGY GENERAL	54	0	0	54	1	1
PSYCHOLOGY OF PERSONALITY	36	0	0	36	1	1
HUMAN BEHAVIOR FOUNDATIONS OF	36	0	0	36	1	1
PSYCHOLOGY	48	0	0	48	1	3
PSYCHOLOGY 1	30	0	0	30	1	1
PSYCHOLOGY 2	30	0	0	30	1	1
PSYCHOLOGY GENERAL	48	0	0	48	1	1
PSYCHOLOGY GENERAL	48	0	0	48	1	1
PSYCHOLOGY	0	0	0	0	1	1
PSYCHOLOGY	30	0	0	30	1	3
PSYCHOLOGY	48	0	0	48	1	2
PSYCHOLOGY	48	0	0	48	1	2
PHYSIOLOGY	48	64	0	112	1	1
PSYCHOLOGY	48	0	0	48	1	1
17 HEALTH, PERSONAL AND COMMUNITY						
COMMUNITY HEALTH	40	0	0	40	1	3
HEALTH PROBLEMS COMMUNITY	36	0	0	36	1	1
18 HUMAN RELATIONSHIPS						
WORD ADMINISTRATION	24	0	30	54	1	3
MANAGEMENT NURSING UNIT	40	0	0	40	1	3
LEADERSHIP SKILLS INTRO.	36	0	506	542	1	3
HUMAN RELATIONS SEMINAR	12	0	0	12	1	3
HUMAN RELATIONS AND LEADERSHIP	30	0	150	180	1	1
LEADERSHIP	50	0	1272	1322	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVEL
19 SOCIOLOGY							
MARRIAGE AND THE FAMILY	36	0	0	36 <sup>72</sup>	1	1	3
SOCIOLOGY	0	0	0	36 <sup>72</sup>	1	1	3
SOCIOLOGY-MODERN SOCIAL PROBLEMS	48	0	0	48 <sup>144</sup>	4	1	3
SOCIOLOGY - COURTSHIP	48	0	0	48 <sup>144</sup>	4	1	3
SOCIOLOGY	48	0	0	48	4	1	3
MARRIAGE AND THE FAMILY	36	0	0	36 <sup>95</sup>	9	1	2
SOCIOLOGY	57	0	0	57	9	1	2
SCIENCE AND SOCIAL 1	33	0	0	33 <sup>99</sup>	11	1	1
SCIENCE AND SOCIAL 2	33	0	0	33 <sup>99</sup>	11	1	1
SCIENCE, SCOCIAL 3	33	0	0	33	11	1	1
SOCIOLOGY	48	0	0	48	18	1	2
SOCIO-PSYCHOLOGY	64	0	0	64	23	1	3
SOCIOLOGY	54	0	0	54	29	1	2
SOCIOLOGY	27	0	0	27	36	1	3
SOCIOLOGY-PRINCIPLES	48	0	0	48 <sup>102</sup>	38	1	3
SOCIOLOGY OF PRINCIPLES	54	0	0	54 <sup>102</sup>	38	1	3
SOCIOLOGY 1	22	0	0	22 <sup>66</sup>	40	1	1
SOCIOLOGY 2	23	0	0	23 <sup>66</sup>	40	1	1
SCIENCE AND SOCIAL 1	30	0	0	30	41	1	3
SCIENCE AND SOCIAL 2	30	0	0	30	41	1	3
SCIENCE AND SOCIAL 3	18	0	0	18	41	1	3
SCIENCE AND SOCIAL 4	22	0	0	22 <sup>66</sup>	41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS 2	6	0	0	6	41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS 3	6	0	0	6	41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS 4	6	0	0	6	41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS	48	0	0	48	42	1	3
SOCIOLOGY-PRINCIPLES	0	0	0	0	50	1	3
SCIENCE AND SOCIAL	15	0	0	15	56	1	3
SOCIOLOGY	16	0	0	16	56	1	3
SOCIAL PROBLEMS	16	0	0	16 <sup>128</sup>	58	1	2
SOCIOLOGY-SOCIAL PROBLEMS	48	0	0	48 <sup>128</sup>	58	1	2
SOCIOLOGY	48	0	0	48	58	1	2
SOCIOLOGY	48	0	0	48 <sup>96</sup>	61	1	1
MARRIAGE AND THE FAMILY	48	0	0	48 <sup>96</sup>	61	1	1
SOCIOLOGY	48	0	0	48	61	1	1



THREE-YEAR REGISTERED NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
20 MICROBIOLOGY	0	0	0	48	1	1	3
MICROBIOLOGY	62	0	0	62	11	1	1
MICROBIOLOGY	0	0	0	96	18	1	2
MICROBIOLOGY	54	54	0	108	29	1	2
MICROBIOLOGY	54	72	0	126	35	1	1
MICROBIOLOGY 1	20	16	0	36	36	1	3
MICROBIOLOGY	32	32	0	64	38	1	1
MICROBIOLOGY 1	22	0	0	22 <sup>45</sup>	40	1	1
MICROBIOLOGY 1	23	0	0	23 <sup>45</sup>	40	1	1
MICROBIOLOGY	96	0	0	96	42	1	1
MICROBIOLOGY	0	0	0	0 <sup>7</sup>	50	1	1
MICROBIOLOGY	0	0	0	0 <sup>7</sup>	50	1	1
MICROBIOLOGY	32	96	0	128 <sup>26</sup>	58	1	2
MICROBIOLOGY	32	96	0	128 <sup>26</sup>	58	1	2
MICROBIOLOGY	32	96	0	128	61	1	1
21 PEDIATRICS	0	0	195	195	1	1	3
NURSING AND PEDIATRIC	70	0	250	320	9	1	3
NURSING AND PEDIATRIC	66	0	120	186	11	1	3
NURSING AND PEDIATRIC	0	0	0	110	18	1	5
NURSING AND PEDIATRIC	180	0	320	500	22	1	3
MATERNAL CHILD NUR. NUTRIT. DIET THER. PHAR	76	36	0	112	23	1	3
NURSING AND PEDIATRIC	54	0	216	270	29	1	3
NURSING AND PEDIATRIC	96	0	288	384	36	1	3
NURSING AND PEDIATRIC	100	0	336	436	41	1	3
NURSING AND PEDIATRIC	108	0	108	288	50	1	3
NURSING AND PEDIATRIC	74	0	384	458 <sup>916</sup>	58	1	3
NURSING AND PEDIATRIC	74	0	384	458 <sup>916</sup>	58	1	3
NURSING AND PEDIATRIC	48	0	144	192	61	1	3
22 NURSING, PSYCHIATRIC	120	0	195	315	1	1	3
NURSING AND PSYCHIATRIC	90	0	200	290	9	1	2
PSYCHODYNAMICS-NURSING	110	0	150	260	11	1	3
NURSING AND PSYCHIATRIC	0	0	0	126	18	1	5
NURSING AND PSYCHIATRIC	120	30	0	150	23	1	3
NURSING AND PSYCHIATRIC	72	0	216	288	29	1	3
NURSING AND PSYCHIATRIC	96	0	288	384	36	1	3
NURSING AND PSYCHIATRIC	64	0	56	120	38	1	1
NURSING AND PSYCHIATRIC	90	0	300	90 <sup>v</sup>	40	1	1



THREE-YEAR REGISTERED NURSE, CONTINUED

22 NURSING, PSYCHIATRIC, CONTINUED  
 NURSING AND PSYCHIATRIC  
 NURSING AND PSYCHIATRIC  
 NURSING AND PSYCHIATRIC  
 NURSING AND PSYCHIATRIC  
 NURSING AND PSYCHIATRIC  
 NURSING AND PSYCHIATRIC  
 NURSING AND PSYCHIATRIC

23 OBSTETRICS  
 NURSING OBSTETRICAL  
 NURSING OBSTETRICAL  
 NURSING OBSTETRICAL  
 NURSING OBSTETRICAL  
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 NURSING OBSTETRICAL  
 NURSING OBSTETRICAL

24 PHARMACOLOGY  
 PHARMACOLOGY  
 PHARMACOLOGY  
 PHARMACOLOGY  
 PHARMACOLOGY  
 PHARMACOLOGY  
 PHARMACOLOGY

25 THEOLOGY  
 THEOLOGY 1  
 THEOLOGY 2  
 THEOLOGY 3  
 THEOLOGY 4  
 THEOLOGY 5

LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVEL
105	0	336	441	41	1	3
40	24	144	208	42	1	3
48	0	144	192	50	1	3
135	0	225	360	56	1	3
106	0	124	230 <sup>460</sup>	58	1	3
106	0	124	230	58	1	3
48	0	144	192	61	1	3
135	0	180	315	94	1	3
70	0	250	320	9	1	3
88	0	150	238	14	1	3
0	0	0	60	18	1	3
73	36	0	109	23	1	3
96	0	288	384	36	1	3
96	0	336	432	38	1	3
165	0	600	765	40	1	3
130	0	336	466	41	1	3
0	0	0	0	42	1	3
100	0	108	288	50	1	3
121	0	344	465	56	1	3
84	0	324	408 <sup>512</sup>	58	1	3
84	0	324	408	58	1	3
48	0	144	192	61	1	3
0	0	0	12 <sup>24</sup>	1	1	3
0	0	0	12	1	1	3
40	0	0	40	9	1	3
30	6	0	36	23	1	3
18	0	0	18	24	1	3
32	0	0	32 <sup>64</sup>	50	1	3
32	0	0	32	50	1	3
0	0	0	36 <sup>72</sup>	1	1	3
0	0	0	36	1	1	3
18	0	0	18	35	1	3
18	0	0	18 <sup>90</sup>	35	1	3
18	0	0	18	35	1	3
18	0	0	18	35	1	3
18	0	0	18	35	1	3
24	0	0	24	42	1	3



THREE-YEAR REGISTERED NURSE, CONTINUED

25 THEOLOGY, CONTINUED

LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
48	0	0	48	42	1	3
48	0	0	48	42	1	3
15	0	0	15	56	1	3
16	0	0	16	56	1	3
16	0	0	16	61	1	3
16	0	0	16	61	1	3
16	0	0	16	61	1	3

27 FIRST AID  
NURSING, FIRE PREVENTION AND FIRST AID

9	9	0	18	50	1	3
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29 PHYSICS  
PHYSICS

24	0	0	24	36	1	3
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31 NURSING, GERIATRICS  
NURSING GERIATRIC

0	0	75	75	1	1	3
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124 GENERAL EDUCATION

48	0	0	48	4	1	3
54	0	0	54	9	1	2
57	0	0	57	9	1	2
36	0	0	36	9	1	2
48	0	0	48	18	1	2
48	0	0	48	18	1	2
54	0	0	54	29	1	2
54	0	0	54	35	1	2
54	0	0	54	35	1	2
48	0	0	48	38	1	1
48	0	0	48	38	1	1
30	0	0	30	40	1	1
48	0	0	48	42	1	1
48	0	0	48	42	1	1
48	0	0	48	42	1	1
0	0	0	0	50	1	1
15	0	0	15	56	1	3
15	0	0	15	56	1	3
15	0	0	15	56	1	3
15	0	0	15	56	1	3
15	0	0	15	56	1	3
48	0	0	48	61	1	1

THREE-YEAR REGISTERED NURSE, CONTINUED

125 ELECTIVES  
 ELECTIVES  
 ELECTIVES

LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
48	0	0	48	38	1	1
48	0	0	48	38	1	1

TWO-YEAR REGISTERED NURSE

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
				TOTL			
1 NURSING, FUNDAMENTALS	48	0	96	144	3	1	3
NURSING FUNDAMENTALS	21	30	30	81	12	1	2
NURSING FUNDAMENTALS	33	0	66	99	19	2	2
NURSING FUNDAMENTALS	48	0	288	336	20	1	2
NURSING-CARE OF ADULT AND CHILD 1	48	0	240	288	20	1	2
NURSING-CARE OF ADULT AND CHILD 2	48	0	144	192	20	1	2
NURSING FUNDAMENTALS	16	0	0	16	20	1	2
NURSING ORIENTATION	16	0	0	16	20	1	2
NURSING TRENDS 1	18	0	108	126	21	1	3
NURSING FUNDAMENTALS	32	0	144	176	21	1	3
NURSING FUNDAMENTALS	64	0	192	256	21	1	3
NURSING FUNDAMENTALS	32	0	96	128	43	1	3
NURSING FUNDAMENTALS	48	0	96	144	46	1	3
NURSING FUNCTIONS RESPONSIBILITIES	32	0	0	32	60	1	2
NURSING FUNDAMENTALS	48	0	96	144	60	1	3
NURSING FUNDAMENTALS	33	33	33	99	81	1	3
NURSING FUNDAMENTALS	33	0	33	66	81	1	3
-2 NURSING TRENDS	16	0	0	16	20	1	2
NURSING TRENDS	32	0	0	32	31	1	2
NURSING TRENDS	32	0	0	32	43	1	2
-3 ANATOMY	32	48	0	80	32	1	2
ANATOMY	32	48	0	80	43	1	2
ANATOMY	48	48	0	96	46	1	2
-4 ANATOMY AND PHYSIOLOGY	32	96	0	128	3	1	1
ANATOMY AND PHYSIOLOGY	32	96	0	128	3	1	1
ANATOMY AND PHYSIOLOGY	44	33	0	77	12	1	2
ANATOMY AND PHYSIOLOGY	44	33	0	77	12	1	2
ANATOMY AND PHYSIOLOGY 1	48	96	0	144	20	1	2
ANATOMY AND PHYSIOLOGY 2	32	48	0	80	29	1	2
ANATOMY AND PHYSIOLOGY	64	48	0	112	21	1	2
ANATOMY AND PHYSIOLOGY	64	48	0	112	31	1	2
ANATOMY AND PHYSIOLOGY	48	48	0	96	60	1	2
ANATOMY AND PHYSIOLOGY 1	44	0	0	44	81	1	1







TWO-YEAR REGISTERED NURSE, CONTINUED

17 HEALTH, PERSONAL AND COMMUNITY  
HEALTH PERSONAL COMMUNITY

19 SOCIOLOGY  
SOCIOLOGY  
SOCIOLOGY AND GENERAL  
SOCIOLOGY  
SOCIOLOGY  
SOCIOLOGY  
SOCIOLOGY  
SOCIOLOGY  
SOCIOLOGY  
SOCIOLOGY  
MARRIAGE AND THE FAMILY

20 MICROBIOLOGY  
BACTERIOLOGY  
MICROBIOLOGY  
MICROBIOLOGY  
MICROBIOLOGY GENERAL  
MICROBIOLOGY  
MICROBIOLOGY GENERAL  
MICROBIOLOGY  
MICROBIOLOGY  
MICROBIOLOGY  
MICROBIOLOGY  
BACTERIOLOGY  
MICROBIOLOGY 1  
MICROBIOLOGY 2, LABORATORY

21 PEDIATRICS  
NURSING AND PEDIATRIC  
NURSING AND PEDIATRIC  
NURSING AND PEDIATRIC  
NURSING AND PEDIATRIC  
NURSING AND PEDIATRIC  
NURSING AND PEDIATRIC  
NURSING AND PEDIATRIC

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL	2	
				INST		
	22	0	0	22	81	1
	48	0	0	48	3	1
	55	0	0	55	12	2
	55	0	0	55	19	2
	48	0	0	48	20	2
	48	0	0	48	21	2
	48	0	0	48	32	2
	48	0	0	48	43	2
	48	0	0	48	46	2
	48	0	0	48	60	2
	33	0	0	33	81	2
						1
	32	96	0	128	3	1
	33	44	0	77	12	2
	0	0	0	55	19	2
	32	96	0	128	20	2
	32	48	0	80	21	2
	32	48	0	80	31	2
	48	48	0	96	32	2
	32	96	0	128	43	2
	32	96	0	128	46	2
	48	48	0	96	60	2
	44	0	0	44	81	1
	0	33	0	33	81	1
	48	0	192	240	3	3
	33	0	132	165	19	2
	32	0	144	176	21	3
	32	0	144	176	31	3
	32	0	144	176	32	3
	40	0	144	184	43	3
	40	0	120	160	46	3
	37	0	75	112	60	3





TWO-YEAR REGISTERED NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVL
				TOTL	2	
				INST		
22 NURSING, PSYCHIATRIC	48	0	192	240	3	3
NURSING AND PSYCHIATRIC	44	0	165	209	12	2
NURSING AND PSYCHIATRIC	55	0	165	220	19	2
NURSING AND PSYCHIATRIC 1	16	0	48	647 <sup>17</sup>	20	2
NURSING AND PSYCHIATRIC 2	16	0	96	112	20	2
NURSING AND PSYCHIATRIC	32	0	144	176	21	3
NURSING AND PSYCHIATRIC	36	0	108	144	31	3
NURSING AND PSYCHIATRIC	32	0	144	176	32	3
NURSING AND PSYCHIATRIC	56	0	168	224	43	3
NURSING AND PSYCHIATRIC	40	0	120	160	46	3
					81	1
23 OBSTETRICS	48	0	192	240	3	3
NURSING OBSTETRICAL	21	0	90	111 <sup>2-3</sup>	12	2
NURSING OBSTETRICAL	32	0	60	92	12	2
NURSING OBSTETRICAL	33	0	99	132	19	2
NURSING OBSTETRICAL	32	0	192	224	20	2
NURSING OBSTETRICAL	32	0	144	176	21	3
NURSING OBSTETRICAL	32	0	144	176	31	3
NURSING OBSTETRICAL	32	0	144	176	32	3
NURSING OBSTETRICAL	48	0	144	192	43	3
NURSING OBSTETRICAL	40	0	120	160	46	3
NURSING OBSTETRICAL	32	0	96	128	60	3
NURSING OBSTETRICAL	22	0	132	154	81	1
29 PHYSICS	55	0	0	55	81	1
PHYSICS AND INTRODUCTION						
30 ZOOLOGY	55	44	0	99	19	2
ZOOLOGY						
124 GENERAL EDUCATION	48	0	0	48 <sup>94</sup>	3	1
ENGLISH	48	0	0	48	3	1
ENGLISH 1, COMPOSITION	33	0	0	33	12	2
ENGLISH 2, COMPOSITION	33	0	0	33 <sup>16</sup>	12	2
ENGLISH 3, COMPOSITION	33	0	0	33	12	2
PHYSICAL EDUCATION	0	66	0	66	12	2
BIOLOGY	44	22	0	66 <sup>176</sup>	19	2
ENGLISH 1, COMPOSITION	25	0	0	55	19	2
ENGLISH 2	25	0	0	55	19	2

TWO-YEAR REGISTERED NURSE, CONTINUED

124 GENERAL EDUCATION, CONTINUED

ENGLISH 3  
 PHYSICAL EDUCATION 1  
 PHYSICAL EDUCATION 2  
 PHYSICAL EDUCATION 3  
 ENGLISH-EFFECTIVE WRITING  
 PHYSICAL EDUCATION  
 SCIENCE, POLITICAL  
 SPEAKING EFFECTIVE  
 GOVERNMENT AMERICAN  
 HISTORY U. S. SURVEY  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 READING COMPOSITION  
 SPEECH ELEMENTS OF  
 GOVERNMENT  
 HISTORY U. S.  
 HUMANITIES  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PUBLIC SPEAKING ELEMENTS  
 READING AND COMPOSITION  
 ENGLISH READING COMP.  
 HISTORY U. S. POLITICAL-SOCIAL  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 SPEECH  
 ENGLISH  
 ENGLISH  
 HISTORY, AMERICAN  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 SCIENCE, POLITICAL  
 ENGLISH  
 ENGLISH  
 HUMANITIES

LECT	LAB	CLIN	CAREER TOTL	INST	CLAS	LEVEL
33	0	0	33	19	2	2
0	22	0	22	19	2	2
0	22	0	22	19	2	2
0	22	0	22	19	2	2
48	0	0	48	20	1	2
0	128	0	128	20	1	2
48	0	0	48	20	1	2
48	0	0	48	20	1	2
48	0	0	48	21	1	2
48	0	0	48	21	1	2
0	32	0	32	21	1	2
0	32	0	32	21	1	2
0	32	0	32	21	1	2
0	32	0	32	21	1	2
48	0	0	48	21	1	2
48	0	0	48	21	1	2
48	0	0	48	21	1	2
42	0	0	42	31	1	2
48	0	0	48	31	1	2
0	32	0	32	31	1	2
0	32	0	32	31	1	2
0	32	0	32	31	1	2
0	32	0	32	31	1	2
48	0	0	48	31	1	2
48	0	0	48	31	1	2
48	0	0	48	31	1	2
48	0	0	48	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
0	32	0	32	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
48	0	0	48	32	1	2
32	0	0	32	32	1	2



TWO-YEAR REGISTERED NURSE, CONTINUED

124 GENERAL EDUCATION, CONTINUED

PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 ENGLISH COMPOSITION  
 ENGLISH COMPOSITION  
 GOVERNMENT, NATIONAL  
 GOVERNMENT, STATE-LOCAL  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 SCIENCES PHYSICAL  
 ENGLISH, FRESHMAN COMP. AUGMENTATION  
 ENGLISH, FRESHMAN COMP. FUND.  
 ENGLISH, FRESHMAN COMPOS. EXPOSITION  
 HISTORY, AMERICAN CIVILIZATION  
 HUMANITIES  
 HUMANITIES  
 HUMANITIES  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION

125 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES

LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVEL
0	32	0	32	46	1	2
0	32	0	32	46	1	2
0	32	0	32	46	1	2
0	32	0	32	46	1	2
48	0	0	48	60	1	2
48	0	0	48	60	1	2
48	0	0	48	60	1	2
48	0	0	48	60	1	2
0	32	0	32	60	1	2
0	32	0	32	60	1	2
0	32	0	32	60	1	2
0	32	0	32	60	1	2
48	0	0	48	60	1	2
33	0	0	33	81	1	1
33	0	0	33	81	1	1
33	0	0	33	81	1	1
55	0	0	55	81	1	1
33	0	0	33	81	1	1
33	0	0	33	81	1	1
33	0	0	33	81	1	1
0	22	0	22	81	1	1
0	22	0	22	81	1	1
0	22	0	22	81	1	1
110	0	0	110	12	1	2
77	0	0	77	19	2	2
48	0	0	48	20	1	2
64	0	0	64	60	1	2

LICENSED PRACTICAL NURSE

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
1 NURSING, FUNDAMENTALS	96	43	116	255	47	0	3
NURSING FUNDAMENTALS	48	48	80	176	54	1	3
NURSING FUNDAMENTALS	20	0	96	116 <sup>351</sup>	87	1	3
NURSING FUNDAMENTALS 1	75	160	0	235	87	1	5
NURSING FUNDAMENTALS 2	85	30	174	289 <sup>415</sup>	88	1	2
NURSING PRINCIPLES	36	0	90	126	88	1	2
NURSING FUNDAMENTALS	130	98	54	282	89	1	5
NURSING REHABILITATION	73	145	48	266 <sup>272</sup>	90	1	5
NURSING FUNDAMENTALS	16	0	0	16	90	1	3
NURSING	48	0	240	288 <sup>400</sup>	91	1	3
NURSING PRINCIPLES SKILLS	64	48	0	112	91	1	2
NURSING PRINCIPLES SKILLS	93	62	60	215	92	1	5
NURSING PRINCIPLES SKILLS	224	0	0	224	93	1	5

4 ANATOMY AND PHYSIOLOGY	32	0	0	32	87	1	5
ANATOMY AND PHYSIOLOGY	51	51	0	102	88	1	2
ANATOMY AND PHYSIOLOGY	50	0	0	50	89	1	5
ANATOMY AND PHYSIOLOGY	50	0	0	50	90	1	5
BODY STRUCTURE AND FUNCTION	52	0	0	52	92	1	5
BODY STRUCTURE PERS. HEALTH	52	0	0	52	93	1	5

6 HUMAN GROWTH AND DEVELOPMENT	64	0	0	64	54	1	5
HUMAN GROWTH AND DEVELOPMENT	26	0	0	26	89	1	5
GROWTH DEVEL. THRU. DECLINING YRS. NORM	18	2	0	20	92	1	5
CHILD GROWTH AND DEVELOPMENT	18	0	0	18	93	1	5

11 NURSING, MEDICAL SURGICAL	140	0	580	720 <sup>746</sup>	47	0	3
NURSING MEDICAL SURGICAL	28	0	0	28	47	0	4
NURSING MEDICAL SURGICAL	96	0	352	448	54	1	3
NURSING MEDICAL SURGICAL	22	0	0	22 <sup>972</sup>	87	1	5
NURSING MEDICAL SURGICAL	50	0	800	850	87	1	5
NURSING MEDICAL SURGICAL 1	68	0	136	204 <sup>1032</sup>	88	1	2
NURSING MEDICAL SURGICAL 2	90	0	360	450	88	1	2
NURSING MEDICAL SURGICAL 3	130	0	250	380	88	1	2
ILLNESS-INTRO TO CONDITIONS	12	0	0	12	89	1	5
NURSING MEDICAL SURGICAL	56	0	256	312 <sup>700</sup>	89	1	3
NURSING SURGICAL REC. RM INC.	56	0	320	376	89	1	3
NURSING MEDICAL SURGICAL	64	34	558	656 <sup>7</sup>	90	1	3

LICENSED PRACTICAL NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL	3	
11 NURSING, MEDICAL SURGICAL, CONTINUED						
NURSING MEDICAL SURGICAL	20	0	0	20	1	5
OUT PATIENT CLINIC	0	4	64	68	1	3
MEDICAL SURGICAL	112	0	288	400	1	3
ILLNESS-INTRO TO CONDITIONS	67	0	0	67	1	5
NURSING MEDICAL SURGICAL	38	0	324	362	1	3
NURSING MEDICAL SURGICAL	44	0	224	268	1	3
ILLNESS INTRO	24	0	0	24	1	5
RECOVERY ROOM	2	0	78	80	1	3
SUPPLY-CENTRAL	1	0	39	40	1	3

12 VOCATIONAL RELATIONSHIPS

RELATIONSHIPS VOCATIONAL	24	0	0	24	0	4
ADJUSTMENT PROFESSIONAL	32	0	0	32	1	5
RELATIONSHIPS PERSONAL VOCATIONAL	32	0	0	34	1	5
RELATIONSHIPS PROFESSIONAL	17	0	0	17	1	2
RELATIONSHIPS PROFESSIONAL	20	0	0	20	1	2
ADJUSTMENT PROFESSIONAL VOCATIONAL	16	0	0	16	1	5
RELATIONSHIPS PERSONAL VOCATIONAL	12	0	0	12	1	3
ADJUSTMENT PROFESSIONAL	32	0	0	32	1	5
RELATIONSHIPS PERS. VOCATIONAL	46	0	38	84	1	5
GUIDANCE	32	0	0	32	1	5
RELATIONSHIPS VOCATIONAL	32	0	0	32	1	5

13 ETHICS, PROFESSIONAL ETHICS AND MEDICAL

ETHICS, PROFESSIONAL	16	0	0	16	1	5
ETHICS AND MEDICAL						

14 NUTRITION

NUTRITION	16	0	0	16	1	5
NUTRITION	66	10	0	76	1	5
NUTRITION	24	18	0	42	1	5

15 MATHEMATICS ARITHMETIC BASIC DRUGS-SOLUT. ARITHMETIC REVIEW

MATHEMATICS	12	0	0	12	1	5
ARITHMETIC BASIC DRUGS-SOLUT.	48	0	0	48	1	2
ARITHMETIC REVIEW						

16 PSYCHOLOGY, GENERAL PSYCHOLOGY INTRODUCTORY

PSYCHOLOGY, GENERAL	16	0	0	16	1	5
PSYCHOLOGY INTRODUCTORY						

LICENSED PRACTICAL NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVEL
17 HEALTH, PERSONAL AND COMMUNITY	30	0	0	30	47	0	4
HEALTH PERSONAL COMMUNITY	20	0	0	20	87	1	5
HEALTH PERSONAL COMMUNITY	54	0	0	54	88	1	2
HEALTH, MENTAL	18	0	0	18	89	1	5
PERSONAL HEALTH AND ADJUST.	36	0	0	36	90	1	5
HEALTH PERSONAL COMMUNITY	20	0	0	20	92	1	5
COMMUNITY HEALTH	20	0	0	20	93	1	5
19 SOCIOLOGY	16	0	0	16	54	1	5
SOCIOLOGY	50	0	0	50	89	1	5
SOCIOLOGY BASIC COMMUNITY HEALTH	42	0	0	42	90	1	5
SOCIOLOGY	11	0	0	11 <sup>93</sup>	92	1	5
MARRIAGE AND THE FAMILY	22	0	0	22	92	1	5
MARRIAGE AND THE FAMILY	10	0	0	10	93	1	5
20 MICROBIOLOGY	16	0	0	16	54	1	5
MICROBIOLOGY							
21 PEDIATRICS	30	0	210	240 <sup>255</sup>	47	0	3
NURSING AND PEDIATRIC	15	0	0	15	47	0	4
NURSING AND PEDIATRIC	30	0	240	270	87	1	3
PEDIATRICS	28	0	160	188	89	1	3
PEDIATRICS	24	8	130	162	90	1	3
NURSING AND PEDIATRIC	48	0	144	192	91	1	3
NURSING AND PEDIATRIC	29	0	115	144 <sup>156</sup>	92	1	3
NURSING AND PEDIATRIC	12	0	0	12	92	1	5
PEDIATRICS INTRO.	5	0	195	200 <sup>216</sup>	93	1	3
NURSING AND PEDIATRIC	18	0	0	18	93	1	5
NURSING AND PEDIATRIC							
22 NURSING, PSYCHIATRIC	28	8	130	166	90	1	3
NURSING AND PSYCHIATRIC	32	0	96	128	91	1	3
NURSING AND PSYCHIATRIC	12	0	68	80 <sup>91</sup>	92	1	3
NURSING AND PSYCHIATRIC	12	0	0	12	92	1	5
PSYCHIATRY INTRO							



LICENSED PRACTICAL NURSE, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	3 INST	CLAS	LEVL
23	30	0	210	240 <sup>255</sup>	47	0	3
	15	0	0	13	47	0	4
	96	0	352	448	54	1	3
	45	0	246	285	87	1	5
	22	0	120	150	89	1	3
	24	8	200	232	90	1	3
	48	0	144	192	91	1	3
	24	0	0	120	92	1	3
	5	0	195	200 <sup>218</sup>	93	1	3
	18	0	0	18	93	1	5
24	45	0	0	45	47	0	4
	16	0	0	16 <sup>48</sup>	54	1	5
	32	0	0	32	54	1	5
	64	7	160	231	87	1	3
	32	0	0	32	90	1	5
26	10	0	70	80 <sup>115</sup>	47	0	3
	35	0	0	35	47	1	4
	32	0	0	32	54	1	5
	46	6	0	52	87	1	5
	10	0	64	74	89	1	3
	20	0	0	20	90	1	3
	52	0	0	52	92	1	5
	2	0	78	80 <sup>128</sup>	93	1	3
	48	0	0	48	93	1	5
27	10	0	0	10	89	1	5
	10	0	0	10	90	1	5
31	15	0	0	15	47	0	4
	20	0	0	20	87	1	5
	14	0	0	14	93	1	5

LICENSED PRACTICAL NURSE , CONTINUED

124 GENERAL EDUCATION  
 ENGLISH  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
	48	0	0	48	91	1	2
	0	32	0	32	91	1	2
	0	32	0	32	91	1	2



NURSE AIDE	LECT	LAB	CLIN	CAREER NUMBER		INST	CLAS	LEVL
				TOTL	4			
1 NURSING, FUNDAMENTALS ORIENTATION ORIENTATION	3 30	0 0	0 10	3 40	47 109	0 0	0 0	4 3
11 NURSING, MEDICAL SURGICAL NURSING MEDICAL SURGICAL NURSING MEDICAL SURGICAL	38 108	0 0	120 702	158 810	47 93	0 1	0 1	3 3
14 NUTRITION NUTRITION	3	2	0	5	47	0	0	4
18 HUMAN RELATIONSHIPS RELATIONSHIPS PERSONAL INTERPERS.	4	0	0	4	47	0	0	4
31 NURSING, GERIATRICS NURSING GERIATRIC AGED CARE	38 3	0 0	12 117	158 120	47 93	0 1	0 1	3 3
32 NURSING, PROCEDURES BODY MEDHANTICS-PATIENT ENVIRONMENT-PATIENTS HYGIENE-PATIENTS-PERSONAL NURSING-ADM.-DISCH.-OF PATIENTS NURSING PROBLEMS-SPECIAL NURSING VITAL SIGNS BODY-ILLNESS-CARE-DIET BODY-ILLNESS-CARE-DIET NURSING PROCEDURES PATIENT CARE-SPECIAL	4 5 20 2 12 4 10 10 24 10	2 2 8 0 0 6 0 0 0 0	0 0 0 0 6 0 30 30 16 30	6 7 28 2 12 10 40 40 40 40	47 47 47 47 47 47 109 109 109 109	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	4 4 4 4 4 4 3 3 3 3
124 GENERAL EDUCATION COMMUNICATION SKILLS EMPLOYMENT-APPLICATION FOR	3 4	0 0	0 0	3 4	47 47	0 0	0 0	4 3

DENTAL ASSISTANT	LECT	LAB	CLIN	CAREER NUMBER	5	CLAS	LEVEL
				TOTL	INST		
0 UNCOMMON STERILIZATION	0	0	0	0	47	1	4
12 VOCATIONAL RELATIONSHIPS BUSINESS CAREERS	7	0	0	7	21	1	2
13 ETHICS, PROFESSIONAL ETHICS AND MEDICAL	12	0	0	12	47	1	4
14 NUTRITION NUTRITION DIET NUTRITION	30 60	0 0	0 0	30 60	21 47	1 1	2 4
17 HEALTH, PERSONAL AND COMMUNITY HEALTH PERSONAL HYGIENE PERSONAL	30 30	0 0	0 0	30 30	21 47	1 1	2 4
20 MICROBIOLOGY BACTERIOLOGY	30	0	0	30	47	1	4
27 FIRST AID FIRST AID FIRST AID	30 30	0 0	0 0	30 30	21 47	1 1	2 4
33 OFFICE TRAINING AND MANAGEMENT OFFICE MANAGM. DENTAL 2 SEM. OFFICE TRAINING COOP. DENTAL	60 240	0 0	0 15	60 255	21 21	1 1	2 2
34 PSYCHOLOGY, APPLIED BUSINESS HUMAN REL- PSYCHOLOGY APPLIED PSYCHOLOGY APPLIED	45 45 30	0 0 0	0 0 0	45 45 30	21 21 47	1 1 1	2 2 4
35 TERMINOLOGY, DENTAL TERMINOLOGY DENTAL	0	0	0	0	47	1	4
36 DENTAL ASSISTING DENTAL SCIENCE APPLIED CHAIRSIDE ASSISTING	90 0	0 0	0 0	90 0	21 47	1 1	2 4

DENTAL ASSISTANT, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
53 PATHOLOGY PATHOLOGY	45	0	0	45	47	1	4
65 TYPING TYPING	90	0	0	90	21	1	2
78 RADIOGRAPHY, INTRA-ORAL ROENTGENOGRAPHY DENTAL	60	30	0	90	21	1	2
84 ANESTHESIA ANESTHESIA	60	0	0	60	47	1	4
85 DENTAL ANATOMY ANATOMY, DENTAL	60	0	0	60	47	1	4
86 CLINICAL PRACTICE, DENTAL LAB PROCEDURES, DENTAL OPERATIVE PROCEDURE DENTAL	0 30	90 90	0 0	90 120	21 21	1 1	2 2
87 DENTAL HEALTH DENTAL HEALTH EDUCATION	60	0	0	60	47	1	4
88 ORIENTATION, DENTAL ORIENTATION	60	0	0	60	47	1	4
124 GENERAL EDUCATION COMMUNICAT ION PRAC. GOVERNMENT AMERICAN SURVEY HISTORY U. S. PHYSICAL EDUCATION SPEECH ELEMENTS OF	45 30 45 30 45	0 0 0 0 0	0 0 0 0 0	45 30 45 30 45	21 21 21 21 21	1 1 1 1 1	2 2 2 2 2
125 ELECTIVES ELECTIVES	0	0	0	0	21	1	1

MEDICAL TECHNOLOGIST	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL	6	
				INST		
0 UNCOMMON	5	0	0	24	1	3
COAGULATION				3}		
ORIENTATION	35	0	0	35}	1	3
-3 ANATOMY						
EMBRYOLOGY	30	180	0	210	1	1
ANATOMY	48	24	0	72	1	1
ANATOMY GENERAL	36	72	0	108 <sup>160</sup>	1	1
ANATOMY, MICROSCOPIC AND EMBRYOLOGY	36	36	0	72 <sup>160</sup>	1	1
-4 ANATOMY AND PHYSIOLOGY						
ANATOMY AND PHYSIOLOGY	32	32	0	64	1	1
-5 CHEMISTRY, GENERAL						
CHEMISTRY GENERAL	45	135	0	180	1	1
CHEMISTRY	49	0	0	49	1	3
CHEMISTRY GENERAL	96	128	0	224	1	1
CHEMISTRY	108	72	0	180	1	1
CHEMISTRY	80	480	0	560 <sup>1120</sup>	1	3
CHEMISTRY	80	480	0	560 <sup>1120</sup>	1	3
CHEMISTRY GENERAL 2 SEMESTER	64	48	0	112	1	1
CHEMISTRY GENERAL 2 SEMESTER	48	96	0	144	1	1
CHEMISTRY	56	24	0	80	1	1
CHEMISTRY, GENERAL AND QUAL. 1	36	36	0	72 <sup>204</sup>	1	1
CHEMISTRY, GENERAL AND QUAL. 2	36	36	0	72 <sup>204</sup>	1	1
CHEMISTRY GENERAL	48	48	0	96	1	1
CHEMISTRY GENERAL	48	64	0	112	1	1
10 PHYSIOLOGY						
PHYSIOLOGY	30	135	0	165	1	1
PHYSIOLOGY	32	48	0	80	1	1
PHYSIOLOGY	0	60	0	60	1	1
PHYSIOLOGY	72	72	0	144	1	1
PHYSIOLOGY	36	24	0	60	1	1
PHYSIOLOGY	48	0	0	48	1	1
15 MATHEMATICS						
MATHEMATICS	48	0	0	48	1	1
ALGEBRA AND TRIGONOMETRY	64	0	0	64 <sup>128</sup>	0	0
CALCULUS AND ANALYTICAL GEOMETRY	64	0	0	64 <sup>128</sup>	1	1
ALGEBRA COLLEGE	36	0	0	36 <sup>72</sup>	1	1
TRIGONOMETRY	36	0	0	36 <sup>72</sup>	1	1



MEDICAL TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				6		
				INST		
				TOTL		
15 MATHEMATICS, CONTINUED						
MATHEMATICS	36	0	0	36	1	1
ALGEBRA COLLEGE	48	0	0	48 <sup>96</sup>	1	1
TRIGONOMETRY PLAIN	48	0	0	48	0	0
ALGEBRA INTRO. COLLEGE	48	0	0	48	1	1
20 MICROBIOLOGY	0	135	0	135 <sup>180</sup>	1	1
MICROBIOLOGY LAB.	45	0	0	45 <sup>180</sup>	1	1
MICROBIOLOGY	48	48	0	96	1	1
BACTERIOLOGY	36	48	0	84	1	1
BACTERIOLOGY DAIRY LAB.	32	48	0	80	1	1
BACTERIOLOGY	36	36	0	72	1	1
BACTERIOLOGY	36	48	0	84 <sup>608</sup>	1	1
MICROBIOLOGY FOOD-LAB	36	0	0	36	1	1
MICROBIOLOGY INDUSTRIAL PROCESSES	36	36	0	72	1	1
MICROBIOLOGY WATER-SEWER	36	96	0	132	1	1
PATHOGENIC BACT.-IMMUNO.- I SEM.	48	0	0	48	1	1
PATHOGENIC BACT.-IMMUNO.- I SEM.	42	336	0	378	1	3
BACTERIOLOGY MYCOLOGY AND RELATE	48	0	0	48 <sup>192</sup>	1	1
MICROBIOLOGY GENERAL	0	48	0	48 <sup>192</sup>	1	1
MICROBIOLOGY GENERAL	48	48	0	96	1	1
MICROBIOLOGY PATHOGENIC	36	36	0	72 <sup>132</sup>	1	1
BACTERIOLOGY PATHOGENIC	36	24	0	60	1	1
BACTERIOLOGY	60	380	0	440 <sup>810</sup>	1	3
BACTERIOLOGY	60	380	0	440 <sup>810</sup>	1	3
BACTERIOLOGY	32	96	0	128	1	1
BACTERIOLOGY PUB. HEALTH	16	144	0	160	1	1
BACTERIOLOGY	48	96	0	144 <sup>288</sup>	1	1
BACTERIOLOGY	48	0	0	48	1	1
BACTERIOLOGY	0	32	0	32	1	1
BACTERIOLOGY	36	36	0	72 <sup>108</sup>	1	1
BACTERIOLOGY	0	36	0	36 <sup>72</sup>	1	1
BACTERIOLOGY	32	96	0	128	1	1
28 BOTANY	45	135	0	180 <sup>432</sup>	1	1
BOTANY GENERAL	30	270	0	300 <sup>432</sup>	1	1
MYCOLOGY MEDICAL ADV.	24	24	0	48	1	1
MYCOLOGY PATHOGENIC	24	24	0	48 <sup>192</sup>	1	1
MORPHOLOGY AND CULTURES	36	36	0	72 <sup>192</sup>	1	1
MYCOLOGY INTRO. TO	36	36	0	72 <sup>192</sup>	1	1
MYCOLOGY MEDICAL	32	96	0	128 <sup>256</sup>	1	1
MYCOLOGY MEDICAL	32	96	0	128 <sup>256</sup>	1	1
YEASTS AND MOLDS						57

MEDICAL TECHNOLOGIST, CONTINUED

28 BOTANY, CONTINUED  
 BOTANY MEDICAL MYCOLOGY  
 BOTANY, INTRO TO

29 PHYSICS  
 PHYSICS GENERAL  
 PHYSICS  
 PHYSICS GENERAL  
 PHYSICS OF ELEMENTS  
 PHYSICS GENERAL  
 PHYSICS GENERAL

30 ZOOLOGY  
 ZOOLOGY  
 ZOOLOGY  
 ZOOLOGY

37 CHEMISTRY, QUANTITATIVE  
 ANALYSIS, QUANTITATIVE  
 ANALYSIS, QUANTITATIVE  
 QUANTITATIVE ANALYSIS-2 SEMESTER  
 ANALYSIS, QUANTITATIVE  
 ANALYSIS, QUANTITATIVE  
 ANALYSIS-PRINCIPLES 2 SEM.  
 ANALYSIS, QUANTITATIVE  
 CHEMISTRY, QUANT-CLINICAL  
 QUANTITATIVE, INTRO. TO  
 QUANTITATIVE ANAL.-QUAN. ANAL.

38 CHEMISTRY, QUALITATIVE  
 CHEMISTRY QUALITATIVE ANALYSIS-GENERAL  
 ANALYSIS-GEN. AND QUALITATIVE  
 CHEMISTRY QUALITATIVE  
 QUALITATIVE ELEM.

39 CHEMISTRY, ORGANIC  
 CHEMISTRY ORGANIC  
 CHEMISTRY, ORGANIC  
 CHEMISTRY ORGANIC  
 CHEMISTRY ORGANIC INTRO. TO  
 CHEMISTRY ORGANIC  
 CHEMISTRY GEN. ORGANIC 2 SEM.  
 CHEMISTRY ORGANIC  
 CHEMISTRY ORGANIC

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVEL
	18	96	0	114	67	1	1
	36	36	0	72	68	1	1
	45	135	0	180	4	1	1
	48	24	0	72	13	1	1
	96	96	0	192	27	1	1
	36	36	0	72	68	1	1
	48	48	0	96	76	1	1
	48	32	0	80	78	1	1
	45	135	0	180	4	1	1
	36	36	0	72	68	1	1
	32	96	0	128	76	1	1
	45	270	0	315	4	1	1
	32	96	0	96	8	1	1
	36	24	0	90	13	1	1
	48	48	0	96	27	1	1
	72	48	0	120	37	1	1
	32	48	0	80	65	1	1
	18	96	0	114	67	1	1
	16	96	0	112	67	1	1
	36	36	0	72	68	1	1
	32	96	0	128	76	1	1
	45	270	0	315	4	1	1
	48	96	0	144	8	1	1
	48	64	0	112	78	1	1
	32	64	0	96	78	1	1
	45	135	0	180	4	1	1
	45	135	0	180	4	1	1
	48	48	0	96	8	1	1
	48	48	0	96	27	1	1
	48	48	0	96	27	1	1
	48	32	0	80	65	1	1
	36	48	0	84	68	1	1
	48	96	0	144	76	1	1

MEDICAL TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
39 CHEMISTRY, ORGANIC, CONTINUED	48	48	0	96	78	1	1
CHEMISTRY ORGANIC ADV.						1	1
CHEMISTRY ORGANIC	48	48	0	96	78	1	1
40 CHEMISTRY, INORGANIC	48	48	0	96	8	1	1
CHEMISTRY INORGANIC							
41 BIOCHEMISTRY	45	0	0	45	4	1	1
BIOCHEMISTRY GENERAL 2 SEM.	36	0	0	36	13	1	1
BIOCHEMISTRY	0	504	0	504	24	1	3
BIOCHEMISTRY CLINICAL	36	24	0	60	37	1	1
BIOCHEMISTRY	72	48	0	120	37	1	1
BIOCHEMISTRY GENERAL	48	64	0	112	67	1	1
BIOCHEMISTRY	48	48	0	96	76	1	1
BIOCHEMISTRY INTRO.	48	32	0	80	78	1	1
42 CLINICAL LAB. PROBLEMS, MED. TECH.	0	72	0	72	68	1	1
CLINICAL LAB METHODOLOGY	0	144	0	144	68	1	1
CLINICAL LAB PRACTICUM	0	24	0	24	68	1	1
CLINICAL LAB PROBLEMS, SEMINAR IN							
43 HISTOLOGY	30	180	0	210	4	1	1
HISTOLOGY	32	96	0	128	8	1	1
HISTOLOGY	0	80	0	80	58	1	3
HISTOLOGY COMPARATIVE ANIMAL	32	80	0	112	78	1	1
44 IMMUNOLOGY	30	270	0	300	4	1	1
IMMUNOLOGY MEDICAL ADV.	24	72	0	96	13	1	1
IMMUNOLOGY-SEROLOGY-INTRO	32	32	0	64	27	1	1
IMMUNOLOGY	36	36	0	72	37	1	1
IMMUNOLOGY AND SEROLOGY	32	96	0	128	65	1	1
INFECTIOUS-IMMUNITY 2 SEM.	72	72	0	144	68	1	1
BACTERIAL PATHOGENS AND BASIC IMMUNOLOG							
45 LAB. TECHNIQUES, MED. TECH.	24	36	0	60	13	1	1
LAB TECHNIQUE CLINICAL	36	0	0	36	37	1	1
LAB, INSTRUMENTS AND MEDIA	0	75	0	75	48	1	2
TECHNICIAN CLINICAL LAB							



MEDICAL TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
46 URINALYSIS	18	168	0	186	24	1	3
URINALYSIS AND CLINICAL MICROSCOPY	20	140	0	160 <sup>320</sup>	58	1	3
URINALYSIS	20	140	0	160	58	1	3
47 BLOOD BANK	19	168	0	187	24	1	3
BLOOD BANK	30	130	0	160 <sup>320</sup>	58	1	3
BLOOD BANK	30	130	0	160	58	1	3
48 CYTOLOGY	30	180	0	210	4	1	1
CYTOLOGY	8	42	0	50	24	1	3
49 ELECTROCARDIOGRAPH (EKG)	0	40	0	40 <sup>40</sup>	58	1	3
EKG	0	40	0	0	58	1	3
50 HEMATOLOGY	31	336	0	367	24	1	3
HEMATOLOGY	60	420	0	480 <sup>960</sup>	58	1	3
HEMATOLOGY	60	420	0	480	58	1	3
HEMATOLOGY	16	32	0	40	67	1	1
51 MICRO-TECHNIQUE, MED. TECH.	0	270	0	270	4	1	1
MICROTECHNIQUE	0	96	0	96	8	1	1
MICROTECHNIQUE	32	64	0	96	78	1	1
52 PARASITOLOGY	45	135	0	180	4	1	1
PARASITOLOGY	24	24	0	48	13	1	1
PARASITOLOGY	20	126	0	146	24	1	1
PARASITOLOGY	36	48	0	82	37	1	1
PARASITOLOGY	32	0	0	32 <sup>96</sup>	67	1	1
PARASITOLOGY	32	32	0	64	67	1	1
PARASITOLOGY	32	64	0	96	78	1	1





MEDICAL TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
-53 PATHOLOGY							
PATHOLOGY	36	60	0	96	37	1	1
PATHOLOGY	36	72	0	108	37	1	1
-54 SEROLOGY							
SEROLOGY	17	168	0	185	24	1	3
TISSUE	8	126	0	134	24	1	3
SEROLOGY	20	140	0	160	58	1	3
SEROLOGY	20	140	0	160	58	1	3
SEROLOGY	16	144	0	160	67	1	1
55 VIROLOGY							
VIROLOGY	36	0	0	36	13	1	1
VIROLOGY	0	24	0	24	13	1	1
VIROLOGY	32	48	0	80	67	1	1
-83 RADIOGRAPHIC ISOTOPES							
RADIOISOTOPE	3	42	0	45	24	1	3
124 GENERAL EDUCATION							
GENETICS	45	0	0	45	4	1	1
BIOLOGY	48	48	0	96	8	1	1
BIOLOGY	96	96	0	192	27	1	1
SCIENCE, NATURAL	108	108	0	216	37	1	1
BIOLOGY	48	16	0	64	67	1	1
BIOLOGY	48	48	0	96	76	1	1
BIOLOGY	48	64	0	112	78	1	1
125 ELECTIVES							
ELECTIVES	0	0	0	0	4	1	1
ELECTIVES	0	0	0	1350	24	1	3
ELECTIVES	0	0	0	1410	58	1	3



MEDICAL SECRETARY		CAREER NUMBER		7	CLAS	LEVEL
LECT	LAB	CLIN	TOTL	INST		
36	0	0	36	16	1	5
0 UNCOMMON						
FIELD TRIPS-QUEST LECTURES-MISC.						
.4 ANATOMY AND PHYSIOLOGY						
60	0	0	60	10	1	1
80	0	0	80	16	1	5
0	0	0	0	17	1	2
130	0	0	130	22	0	3
60	0	0	60	44	1	1
30	0	0	30	64	1	5
12	0	0	12	83	1	5
12	0	0	12 <sup>48</sup>	83	1	5
24	0	0	24	83	1	5
.6 HUMAN GROWTH AND DEVELOPMENT						
48	0	0	48	10	1	1
45	0	0	45 <sup>9c</sup>	48	1	2
45	0	0	45	48	1	2
.13 ETHICS, PROFESSIONAL						
24	0	0	24	16	1	5
30	0	0	30 <sup>60</sup>	44	1	1
30	0	0	30	44	1	1
24	0	0	24	83	1	5
.15 MATHEMATICS						
45	0	0	45	44	1	1
75	0	0	75	47	0	4
45	0	0	45	64	1	5
24	0	0	24	83	1	5
.16 PSYCHOLOGY, GENERAL						
0	0	0	0	17	1	2
45	0	0	45	44	1	1
.18 HUMAN RELATIONSHIPS						
52	0	0	52	10	1	1
45	0	0	45	44	1	1



MEDICAL SECRETARY, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
20 MICROBIOLOGY BACTERIOLOGY	24	36	0	60	10	1	1
25 THEOLOGY THEOLOGY	30	0	0	30	44	1	1
THEOLOGY	30	0	0	30	44	1	1
THEOLOGY	30	0	0	30	44	1	1
27 FIRST AID FIRST AID	0	0	0	0	17	1	2
34 PSYCHOLOGY, APPLIED PSYCHOLOGY, APPLIED	52	0	0	52	16	1	5
45 LAB. TECHNIQUES, MED. TECH. LABORATORY TECHNIQUE	0	228	0	228	16	1	5
LABORATORY MEDICAL TECHNICIAN CLINICAL LAB	0	0	0	0	17	1	2
	0	45	0	45	48	1	2
46 URINALYSIS GASTRICS AND URINE	24	36	0	60	10	1	1
50 HEMATOLOGY HEMATOLOGY	48	72	0	120	10	1	1
56 ACCOUNTING ACCOUNTING	0	0	0	0	17	1	2
ACCOUNTING	45	0	0	45	44	1	1
ACCOUNTING	45	0	0	45	44	1	1
ACCOUNTING SECRETARIAL	45	0	0	45	48	1	2
ACCOUNTING SECRETARIAL	45	0	0	45	48	1	2
ACCOUNTING FOR PHYSICIAN	105	0	0	105	64	1	5
COLLECTION AND CREDIT	24	0	0	24	83	1	5
57 ANATOMY-PHYSICS ANATOMY PHYSICS 1	36	0	0	36	10	1	1
ANATOMY PHYSICS 2	36	0	0	36	10	1	1
ANATOMY PHYSICS 3	36	0	0	36	10	1	1
ANATOMY PHYSICS 4	36	0	0	36	10	1	1

MEDICAL SECRETARY, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
58 BUSINESS CORRESPONDENCE	0	0	0	0	17	1	2
CORRESPONDENCE BUSINESS	0	0	0	0	17	1	2
ENGLISH BUSINESS	150	0	0	150	47	0	4
ENGLISH BUSINESS	32	0	0	32	47	0	4
ENGLISH MEDICAL SECRETARIES	45	0	0	45	48	1	2
CUMMUNICATION BUSINESS	12	0	0	12	83	1	5
CORRESPONDENCE ENGLISH							
59 SHORTHAND, GENERAL AND MEDICAL							
SHORTHAND MEDICAL ADV.	0	60	0	60	10	1	1
SHORTHAND MEDICAL	0	60	0	60	10	1	1
SHORTHAND MEDICAL	0	60	0	60	10	1	1
SHORTHAND TECHNICAL ADV.	0	60	0	60	10	1	1
SHORTHAND TECHNICAL	0	280	0	280	16	1	5
SHORTHAND	0	0	0	0	17	1	2
DICTATION MEDICAL	0	0	0	0	17	1	2
SHORTHAND	45	0	0	45	44	1	1
SHORTHAND MEDICAL ADV.	45	0	0	45	44	1	1
SHORTHAND MEDICAL	0	150	0	150	47	0	4
SHORTHAND MEDICAL	0	45	0	45	48	1	2
SHORTHAND REG. AND ADV.	0	0	0	0	48	1	2
DICTATION MEDICAL OFFICE	0	0	90	90	48	1	2
DICTATION MEDICAL	0	0	90	90	48	1	2
DICTATION TRANSCRIPTION MEDICAL	0	90	0	90	48	1	5
DICTATION TRANSCRIPTION MEDICAL	0	75	0	75	48	1	2
SHORTHAND	180	0	0	180	64	1	5
SHORTHAND	12	0	0	12	83	1	5
DICTATION TRANSCRIPTION MEDICAL	72	0	180	192	83	1	5
SHORTHAND 1	36	0	0	36	83	1	5
SHORTHAND 2	24	0	72	96	83	1	5
SHORTHAND 3							
.60 FILING	0	75	0	75	47	0	4
FILING	15	0	0	15	64	1	5
FILING	24	0	0	24	83	1	5
OFFICE PRACTICE FILING INTRO. TO BUS.							
.61 OFFICE MACHINES	30	0	0	30	44	1	1
MACHINES OFFICE	0	75	0	75	47	0	4
MACHINES OFFICE	30	0	0	30	64	1	5
MACHINE ELECTIVES							

MEDICAL SECRETARY , CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
-62 OFFICE PRACTICE	0	0	120	120	10	1	1
OFFICE PRACTICE CLINICAL	84	0	0	120 <sup>200</sup>	10	1	1
OFFICE PRACTICE MEDICAL	78	0	0	84	16	1	5
OFFICE PRACTICE CLINICAL	0	0	120	78	17	1	2
CLINICAL PRACTICE	0	30	0	120	48	1	2
OFFICE NURSING TECHNIQUES MEDICAL	15	0	0	30	64	1	5
OFFICE PROCEDURES	12	0	0	15	83	1	5
INSURANCE FORMS	12	0	0	12	83	1	5
LAN-APPLIED FUNDAMENTALS	12	0	0	12	83	1	5
OFFICE PRACTICE ADV.	0	0	72	12	83	1	5
OFFICE PRACTICE PRODUCTION	12	0	0	72	83	1	5
OFFICE PRACTICE TRANSC. MACHINES	12	0	36	12 <sup>30</sup>	83	1	5
RECORD KEEPING OFFICE	24	0	0	48	83	1	5
RECORDS OFFICE	12	0	36	24	83	1	5
TELEPHONE USAGE TECHNIQUES	12	0	36	48	83	1	5

63 SECRETARIAL PRACTICE AND PROCEDURES	350	0	0	350	16	1	5
SECRETARIAL DUTIES MED	30	0	0	30	44	1	1
SECRETARIAL MEDICAL TECH	30	0	0	30 <sup>90</sup>	44	1	1
SECRETARIAL PROCEDURE	30	0	0	30	44	1	1
SECRETARIAL PROCEDURE	0	0	48	48	47	0	4
SECRETARIAL PRACTICE MEDICAL	40	0	0	40	47	0	4
SECRETARY FUNDAMENTALS MEDICAL	30	0	0	30	64	1	5
SECRETARIAL PRACTICE MEDICAL	45	0	0	45 <sup>75</sup>	64	1	5
SECRETARIAL STUDIES MEDICAL	12	0	36	48 <sup>72</sup>	83	1	5
ASSISTING-MEDICAL	24	0	0	24	83	1	5
SECRETARIAL AUTOMATED PROC. MED.							

64 TERMINOLOGY, MEDICAL	0	0	0	0	17	1	2
TERMINOLOGY AND MEDICAL	15	0	0	15	48	1	2
TERMINOLOGY AND MEDICAL 1	30	0	0	30 <sup>75</sup>	48	1	2
TERMINOLOGY AND MEDICAL 2	15	0	0	15	48	1	2
TERMINOLOGY AND MEDICAL 3	15	0	0	15	48	1	2
TERMINOLOGY AND MEDICAL 4	45	0	0	45 <sup>75</sup>	64	1	5
ENGLISH-VOCAB. BLDG. SPELLING	30	0	0	30	64	1	5
TERMINOLOGY AND MEDICAL	48	0	0	48	83	1	5
VOCABULARY BLDG. MEDICAL 2	48	0	0	48 <sup>145</sup>	83	1	5
VOCABULARY BLDG. MEDICAL 3	48	0	0	48	83	1	5
VOCABULARY BLDG. MEDICAL	12	0	0	12	83	1	5
VOCABULARY SKILLS							

MEDICAL SECRETARY , CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL
65 TYPING	0	60	0	60	10	1	1
TYPING 1	0	60	0	60	10	1	1
TYPING 2	0	60	0	60	10	1	1
TYPING 3	0	60	0	60	10	1	1
TYPING 4	0	60	0	60	10	1	1
TYPING	0	230	0	230	16	1	5
TYPING	0	0	0	0	17	1	2
TYPING	0	0	0	0	22	0	3
TRANSCRIBING	0	0	1560	1560	44	1	1
TYPEWRITING-SHORTHAND ADV.	45	0	0	45	44	1	1
TYPEWRITING-SHORTHAND	45	0	0	45	44	1	1
TYPING ADV. MEDICAL	0	0	20	20	47	0	4
TYPING	0	150	0	150	47	0	4
TYPING	0	60	0	60	47	0	4
TYPING	0	0	75	75	48	1	2
TYPING	0	75	0	75	48	1	2
TYPING	0	0	75	75	48	1	2
TYPING	0	0	75	75	48	1	2
TYPING	90	0	0	90	64	1	5
TYPING-PRODUCTION 2	12	0	36	48	83	1	5
TYPING 3	0	0	36	36	83	1	5
TYPING	24	0	0	24	83	1	5

66 ECONOMICS  
ECONOMICS PRINCIPLES

67 MEDICAL SCIENCE CONFERENCES  
MEDICAL SCIENCE CONFERENCES  
REPORT, RESEARCH-MEDICAL TERM PAPER

81 RADIATION PHYSICS  
X-RAY AND PHYSICS

124 GENERAL EDUCATION  
COMMUNICATIONS 1  
COMMUNICATIONS 2  
COMMUNICATIONS 3  
COMMUNICATIONS 4  
ART-MUSIC APPRECIATION  
ART-MUSIC APPRECIATION  
ENGLISH LITERATURE ADV.  
ENGLISH LITERATURE  
ENGLISH  
ENGLISH

MEDICAL SECRETARY, CONTINUED

124 GENERAL EDUCATION, CONTINUED

SPEECH PRINCIPLES  
 ENGLISH COMP.  
 ENGLISH  
 LITERATURE GENERAL  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 ENGLISH PUNCTUATION COMPOSITION  
 ENGLISH SENTENCE CONST.  
 PARLIAMENTARY PROCED. PUB. SPEAKING  
 ENGLISH GRAMMAR APPLIED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS.	LEVEL
	30	0	0	30	44	1	1
	45	0	0	45	48	1	2
	45	0	0	45	48	1	2
	45	0	0	45	48	1	2
	0	30	0	30	48	1	2
	0	30	0	30	48	1	2
	45	0	0	45	64	1	5
	30	0	0	30	64	1	5
	30	0	0	30	64	1	5
	12	0	0	12	83	1	5
	45	0	0	45	48	1	2
	45	0	0	45	48	1	2

125 ELECTIVES  
 ELECTIVES  
 ELECTIVES

RADIOLOGIC TECHNOLOGIST

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
				TOTL			
3	ANATOMY	45	0	90	58	1	1
	ANATOMY-CHORDATE	30	225	267 <sup>124</sup>	58	1	3
	ANATOMY TOPOGRAPHIC	30	225	267	58	1	3
4	ANATOMY AND PHYSIOLOGY	45	0	75 <sup>210</sup>	43	1	2
	ANATOMY AND PHYSIOLOGY	90	0	135	43	1	2
	ANATOMY AND PHYSIOLOGY	45	0	90 <sup>244</sup>	58	1	1
	ANATOMY AND PHYSIOLOGY	45	0	102	58	1	2
	ANATOMY AND PHYSIOLOGY	45	0	102	58	1	2
	ANATOMY AND PHYSIOLOGY	45	0	90	66	1	1
	ANATOMY AND PHYSIOLOGY	0	0	30	103	1	2
	ANATOMY AND PHYSIOLOGY	45	0	75 <sup>180</sup>	103	1	2
	ANATOMY AND PHYSIOLOGY	0	0	30	103	1	2
	ANATOMY AND PHYSIOLOGY	0	0	45	103	1	2
	ANATOMY AND PHYSIOLOGY	45	0	150	104	1	3
	ANATOMY AND PHYSIOLOGY	45	0	75 <sup>180</sup>	105	1	1
	ANATOMY AND PHYSIOLOGY	0	0	30	105	1	1
	ANATOMY AND PHYSIOLOGY	45	0	75	105	1	1
5	CHEMISTRY, GENERAL	60	0	105	43	1	2
	CHEMISTRY, GENERAL	45	0	90	58	1	1
	CHEMISTRY, GENERAL	45	0	135	58	1	1
	CHEMISTRY QUALITATIVE ANALYSIS-GENERAL	45	0	90	103	1	2
	CHEMISTRY, GENERAL	30	0	75 <sup>160</sup>	105	1	1
	CHEMISTRY, GENERAL	30	0	75	105	1	1
13	ETHICS, PROFESSIONAL	5	150	155 <sup>210</sup>	58	1	3
	ETHICS PROFESSIONAL	5	150	155	58	1	3
	ETHICS PROFESSIONAL	10	0	10	104	1	3
	ETHICS, PROFESSIONAL	45	0	45	105	1	1
15	MATHEMATICS	45	0	45	43	1	2
	ALGEBRA, COLLEGE	45	0	45 <sup>90</sup>	58	1	1
	ALGEBRA COLLEGE	45	0	45	58	0	0
	TRIGONOMETRY	45	0	45	105	1	1
	ALGEBRA (COLLEGE) + TRIGONOMETRY	45	0	45	105	1	1





RADIOLOGIC TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL	INST	
16	45	0	0	45	43	2
	45	0	0	45	58	1
	45	0	0	45	103	2
	60	0	0	60	105	1
17	30	0	0	30	43	2
	30	0	0	30	103	2
19	45	0	0	45	43	2
	75	0	0	75	58	1
20	45	45	0	90	103	2
	15	0	0	15	103	2
29	45	0	0	45	43	2
	45	45	0	90	58	1
	45	45	0	90	58	1
	30	45	0	75	103	2
	45	45	0	90	105	1
	45	45	0	90	105	1
30	0	45	0	45	58	1
	45	45	0	90	58	1
64	12	0	0	12	58	3
	12	0	0	12	58	3
	45	0	0	45	103	2
	30	0	0	30	103	2
	30	0	0	30	103	2
	45	0	0	45	105	1

RADIOLOGIC TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL		
				INST		
68 ADMINISTRATION, DEPARTMENTAL	30	0	0	30	1	2
ADMINISTRATION DEPARTMENTAL	45	0	0	45	1	2
ADMINISTRATION DEPARTMENTAL	10	0	225	235	1	3
ADMINISTRATION DEPARTMENTAL	10	0	225	235	1	3
ADMINISTRATION DEPARTMENTAL	30	0	0	30	1	2
ADMINISTRATION DEPARTMENTAL	15	0	0	15	1	1
ADMINISTRATION DEPARTMENTAL	0	0	75	75	1	3
ADMINISTRATION, DEPARTMENTAL	30	0	0	30	1	3
ADMINISTRATIVE, DEPARTMENTAL	0	0	0	0	1	3
PARLIAMENTARY PROCEDURE	15	0	450	450	1	1
PARLIAMENTARY PROCEDURES [FUNDAMENTAL]	15	0	0	15	1	1

69 FILM CRITIQUE	20	0	0	20	1	3
CRITIQUE, FILM 1	20	0	0	20	1	3
CRITIQUE, FILM 2	30	0	0	30	1	3
CRITIQUE, FILM 2	30	0	0	30	1	3
CRITIQUE, FILM 3	15	0	0	15	1	3
CRITIQUE, FILM 3	15	0	0	15	1	3
CRITIQUE, FILM 4	20	0	0	20	1	3
CRITIQUE, FILM 4	20	0	0	20	1	3
FILM CRITIQUE	52	0	0	52	1	3
FILM CRITIQUE	52	0	0	52	1	3
CRITIQUE, FILM	30	0	0	30	1	1

70 DARKROOM CHEMISTRY AND TECHNIQUE	10	6	160	176	1	3
DARKROOM-CHEMISTRY AND TECHNIQUE	10	6	160	176	1	3
DARKROOM-CHEMISTRY AND TECHNIQUE	30	0	0	30	1	3
DARKROOM-CHEMISTRY + TECHNIQUE	30	0	0	30	1	1
DARKROOM-CHEMISTRY + TECHNIQUE	0	0	75	75	1	3

71 DISEASES, MEDICAL SURGICAL	15	0	225	240	1	3
DISEASES- MEDICAL SURGICAL SURVEY	15	0	225	240	1	3

RADIOLOGIC TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL
				TOTL			
72	6	45	0	512	58	1	3
	6	45	0	513	58	1	3
73	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	30	0	0	30	103	1	2
	30	0	0	307	105	1	1
	0	0	150	150	105	1	3
74	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	5	40	0	45	58	1	3
	5	40	0	45	58	1	3
75	45	0	0	45	43	1	2
	45	0	0	45	43	1	2
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	50	0	0	50	104	1	3
	50	0	0	50	104	1	3
	30	0	0	30	105	1	1
	30	0	0	30	105	1	1
	0	0	150	150	105	1	3
	0	0	150	150	105	1	3
	15	0	0	15	105	1	1
	30	0	0	30	105	1	1
76	20	0	225	245	58	1	3
	15	0	225	240	58	1	3
	15	0	225	240	58	1	3
	20	0	225	245	58	1	3
	30	0	225	255	58	1	3
	30	0	225	225	58	1	3

EQUIP. RADIOLOGY MAINT.  
 EQUIP. RADIOLOGY MAINT.  
 RADIATION THERAPY  
 RADIATION THERAPY  
 RADIATION THERAPY  
 THERAPY, RADIATION  
 THERAPY, RADIATION  
 RADIATION SAFETY  
 RADIATION-ELECTRIC PROTEC.-PATIENTS PER  
 RADIATION-ELECTRIC PROTEC.-PATIENTS PER  
 RADIATION-ORIENTATION-ELM PROTECTION  
 RADIATION-ORIENTATION-ELM PROTECTION  
 RADIOGRAPHIC EXPOSURE TECHNIQUES  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOSURE PRINC.  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOSURE PRINC. ADV.  
 RADIOGRAPHIC EXPOSURE PRINC. ADV.  
 RADIOGRAPHIC EXPOSURE PRINC.  
 RADIOGRAPHIC EXPOSURE PRINC.  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.  
 RADIOGRAPHIC EXPOSURE PRINC.  
 RADIOGRAPHIC EXPOSURE PRINC.  
 RADIOGRAPHIC POSITIONING  
 RADIOGRAPHIC POSITIONING-ROUTINE ADV.  
 RADIOGRAPHIC POSITIONING-ROUTINE  
 RADIOGRAPHIC POSITIONING-ROUTINE  
 RADIOGRAPHIC POSITIONING-ROUTINE  
 RADIOGRAPHIC POSITIONING NON-ROUTINE  
 RADIOGRAPHIC POSITIONING NON-ROUTINE



RADIOLOGIC TECHNOLOGIST, CONTINUED

76 RADIOGRAPHIC POSITIONING, CONTINUED  
 RADIOGRAPHIC POSITIONING  
 RADIOGRAPHIC POSITIONING  
 RADIOGRAPHIC POSITIONING  
 RADIOGRAPHIC POSITIONING

77 RADIOGRAPHIC PROCEDURES  
 RADIOGRAPHIC PROCED.  
 RADIOGRAPHIC PROCED.-SP.  
 RADIOGRAPHIC PROCED.-SP.  
 RADIOGRAPHIC PROCED - CONTRACT MEDIA- R  
 RADIOGRAPHIC PROCED - CONTRACT MEDIA- R  
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78 RADIOGRAPHY, INTRA-ORAL  
 RADIOGRAPHY INTRAORAL  
 RADIOGRAPHY INTRAORAL  
 DENTAL [X-RAY TECH]

79 RADIOGRAPHY, PEDIATRICS  
 RADIOGRAPHY PEDIATRIC  
 RADIOGRAPHY PEDIATRIC  
 RADIOGRAPHY, PEDIATRIC  
 RADIOGRAPHY, PEDIATRIC

80 RADIOLOGY, NURSING PROCEDURES  
 RADIOLOGY HOSP. NURSING PROCEDURE  
 RADIOLOGY NURSING PROCEDURES  
 RADIOLOGY NURSING PROCEDURES  
 RADIOLOGY NURSING PROCEDURES  
 RADIOLOGY NURSING PROCEDURES  
 RADIOLOGY NURSING PROCEDURES  
 RADIOLOGY NURSING PROCEDURES

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
	0	0	1723	1723	104	1	3
	30	0	0	30	105	1	1
	0	0	150	150	105	1	3
	0	0	150	150	105	1	3
	120	0	2440	2560	43	1	2
	38	0	225	263	58	1	3
	38	0	225	263	58	1	3
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	15	0	225	240	66	1	3
	45	0	659	704	66	1	3
	45	0	659	704	66	1	3
	0	0	300	300	103	1	3
	15	0	225	240	103	1	3
	30	0	75	105	103	1	3
	0	0	300	300	103	1	3
	30	0	0	30	104	1	3
	0	0	150	150	105	1	3
	30	0	0	30	105	1	1
	8	0	225	233	58	1	3
	8	0	225	233	58	1	3
	30	0	0	30	103	1	2
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	15	0	0	15	105	1	1
	0	0	150	150	105	1	3
	10	0	225	235	58	1	3
	10	0	225	235	58	1	3
	30	0	0	30	103	1	3
	15	0	0	15	104	1	3
	15	0	0	15	104	1	3
	30	0	0	30	105	1	1
	0	0	75	75	105	1	3



RADIOLOGIC TECHNOLOGIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL	INST	
.81 RADIATION PHYSICS	40	42	0	82	58	3
X-RAY RADIUM AND PHYSICS FUND.						
X-RAY RADIU ^HYSICS FUND. ADV.	20	20	0	40	58	3
X-RAY RADIUM PHYSICS	20	20	0	40	58	3
X-RAY-RADIUM PHYSICS	40	42	0	82	59	3
X-RAY RADIUM PHYSICS	30	45	0	75	104	3
X-RAY RADIUM PHYSICS	50	0	0	50	104	3
X-RAY, RADIUM PHYSICS	30	0	0	30	105	1
.82 RADIATION THERAPY	15	0	0	15	43	2
INTRODUCTION TO X-RAY + X-RAY TECHNOLOG	45	0	0	45	43	2
INTRODUCTION TO X-RAY + X-RAY TECHNOLOG	10	0	225	235	58	3
RADIOGRAPHIC EXPOSURE ADV.	15	0	0	15	105	1
ROENTGENOGRAPHY, INTRODUCTION TO						
.83 RADIOGRAPHIC ISOTOPES	8	0	150	158	58	3
RADIOACTIVE ISOTOPES MED. FAMILIARIZATI	30	0	0	30	105	1
RADIOACTIVE ISOTOPES MED FAMILIARIZATIO						
124 GENERAL EDUCATION	30	0	0	30	43	2
ART, INTRODUCTION TO	30	0	0	30	43	2
ART, INTRODUCTION TO	45	0	0	45	43	2
ENGLISH	45	0	0	45	43	2
ENGLISH	45	0	0	45	43	2
HISTORY, AMERICAN	30	0	0	30	43	2
INSTITUTIONS, POLITICAL (AMERICAN)	30	0	0	30	43	2
PHYSICAL EDUCATION	0	30	0	30	43	2
PHYSICAL EDUCATION	0	30	0	30	43	2
PHYSICAL EDUCATION	0	30	0	30	43	2
PHYSICAL EDUCATION	45	0	0	45	58	1
ENGLISH	45	0	0	45	58	1
ENGLISH	45	0	0	45	58	1
GENETICS	120	0	0	120	58	1
HUMANITIES	8	0	0	8	58	1
PHYSICAL EDUCATION	8	0	0	8	58	1
PHYSICAL EDUCATION	45	0	0	45	103	1
ENGLISH	45	0	0	45	103	1
ENGLISH	0	30	0	30	103	2
PHYSICAL EDUCATION	0	30	0	30	103	2
PHYSICAL EDUCATION	0	30	0	30	103	2



RADIOLOGIC TECHNOLOGIST, CONTINUED

124 GENERAL EDUCATION CONTINUED  
 PHYSICAL EDUCATION  
 POLITICAL SCIENCE  
 AIR SCIENCE  
 AIR SCIENCE  
 BIOLOGY, GENERAL  
 ENGLISH  
 ENGLISH  
 ENGLISH  
 ENGLISH  
 HUMANITIES  
 HUMANITIES  
 HUMANITIES  
 HUMANITIES  
 HUMANITIES  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION

	LECT	LAB	CLIN	CAREER NUMBER	CLAS	LEVEL
				TOTL		
				INST		
	0	30	0	30	1	2
	45	0	0	45	1	2
	30	0	0	30	1	1
	30	0	0	30	1	1
	45	45	0	90	1	1
	30	0	0	30	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	45	0	0	45	1	1
	0	45	0	45	1	1

125 ELECTIVES  
 ELECTIVE  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES

	30	0	0	30	1	2
	30	0	0	30	1	2
	30	0	0	30	1	2
	120	0	0	120	1	1
	135	0	0	135	1	1
	0	0	225	233	1	3
	0	0	225	233	1	3
	30	0	0	30	1	2
	45	0	115	160	1	3
	30	0	0	30	1	1
	45	0	0	45	1	1



DENTAL HYGIENIST		CAREER NUMBER		9		CLAS		LEVL	
		LECT	LAB	CLIN	TOTL	INST			
0	UNCOMMON EDUCATION, INTRODUCTION TO	0	0	0	0	27	1	1	1
3	ANATOMY ANATOMY GROSS MICRO. ANATOMY ANATOMY-ORAL	0 0 30	0 0 30	0 0 0	0 97 60	30 30 74	1 1 1	1 1 1	1 1 1
4	ANATOMY AND PHYSIOLOGY ANATOMY AND PHYSIOLOGY HEAD AND NECK ANATOMY AND PHYSIOLOGY ANATOMY AND PHYSIOLOGY ANATOMY AND PHYSIOLOGY ANATOMY AND PHYSIOLOGY ANATOMY AND PHYSIOLOGY	0 32 36 45 0	0 0 96 0 45	0 0 0 0 0	0 32 132 45 45	27 73 73 74 74	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1
5	CHEMISTRY, GENERAL CHEMISTRY CHEMISTRY CHEMISTRY GENERAL CHEMISTRY CHEMISTRY	0 60 48 45 45	0 0 32 45 45	0 0 0 0 0	0 60 80 90 90	27 30 73 74 74	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1
6	HUMAN GROWTH AND DEVELOPMENT GROWTH AND DEVELOPMENT PSYCHOLOGY CHILD	0 48	0 0	0 0	0 48	30 73	1 1	1 1	1 1
10	PHYSIOLOGY PHYSIOLOGY PHYSIOLOGY	0 0	0 0	0 0	0 0	27 30	1 1	1 1	1 1
12	VOCATIONAL RELATIONSHIPS COUNSELING AND INTERVIEWING	0	0	0	0	30	1	1	1
13	ETHICS, PROFESSIONAL ETHICS AND JURISPRUDENCE, DENTAL ETHICS AND JURISPRUDENCE, DENTAL ETHICS-ECONOMICS-JURISPRUDENCE MANAGEMENT ETHICS PRAC.	0 0 32 15	0 0 0 0	0 0 0 0	0 0 32 15	27 30 73 74	1 1 1 1	1 1 1 1	1 1 1 1



DENTAL HYGIENIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	9	CLAS	LEVL
				TOTL	INST		
14 NUTRITION	0	0	0	0	27	1	1
NUTRITION AND DIETETICS	0	0	0	0	30	1	1
NUTRITION + CAVITIES CONTROL	32	0	0	32	73	1	1
NUTRITION	30	0	0	30	74	1	1
15 MATHEMATICS	75	0	0	75	27	1	1
MATHEMATICS							
16 PSYCHOLOGY, GENERAL	45	0	0	45	27	1	1
PSYCHOLOGY	48	0	0	48	73	1	1
PSYCHOLOGY GENERAL	45	0	0	45	74	1	1
17 HEALTH, PERSONAL AND COMMUNITY	0	0	0	0	3	1	1
MENTAL HYGIENE, INTRODUCTION TO	0	0	0	0	30	1	1
HEALTH PERSONAL COMMUNITY	32	0	0	32	73	1	1
HEALTH-PUBLIC							
19 SOCIOLOGY	45	0	0	45	27	1	1
SOCIOLOGY	120	0	0	120	30	1	1
SCIENCE AND SOCIAL	48	0	0	48	73	1	1
SOCIOLOGY-PRINCIPLES	45	0	0	45	74	1	1
SOCIOLOGY							
20 MICROBIOLOGY	0	0	0	0	27	1	1
BACTERIOLOGY	0	0	0	0	30	1	1
BACTERIOLOGY AND PATHOLOGY	30	45	0	75	74	1	1
BACTERIOLOGY							
24 PHARMACOLOGY	0	0	0	0	27	1	1
PHARMACOLOGY	32	0	0	32	73	1	1
PHARMACOLOGY	45	0	0	45	74	1	1
PHARMACOLOGY							
25 THEOLOGY	0	0	0	0	30	1	1
THEOLOGY 1	0	0	0	0	30	1	1
THEOLOGY 3	0	0	0	0	30	1	1
THEOLOGY 4	90	0	0	90	30	1	1
THEOLOGY	0	0	0	0	30	1	1





DENTAL HYGIENIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
27 FIRST AID	0	0	0	0	30	1	1
FIRST AID	30	0	0	30	74	1	1
36 DENTAL ASSISTING	0	0	0	0	30	1	1
DENTAL ASSISTING	32	0	0	32	73	1	1
41 BIOCHEMISTRY	0	0	0	0	30	1	1
BIOCHEMISTRY							
43 HISTOLOGY	0	0	0	0	27	1	1
HISTOLOGY	32	48	0	80	73	1	1
HISTOLOGY GENERAL ORAL	15	30	0	45	74	1	1
53 PATHOLOGY	0	0	0	0	27	1	1
PATHOLOGY	0	0	0	0	30	1	1
PATHOLOGY	32	48	0	80	73	1	1
PATHOLOGY	30	0	0	30	74	1	1
78 RADIOGRAPHY, INTRA-ORAL	0	0	0	0	27	1	1
ROENTGENOGRAPHIC TECHNIQUE, ORAL	0	0	0	0	30	1	1
RADIOLOGY	32	0	0	32	73	1	1
RADIOLOGY	0	15	0	15	74	1	1
84 ANESTHESIA	0	0	0	0	30	1	1
ANESTHESIOLOGY							
85 DENTAL ANATOMY	0	0	0	0	27	1	1
ANATOMY, DENTAL	0	0	0	0	27	1	1
DENTAL ANATOMY	0	0	0	0	27	1	1
DENTAL HYGIENISTS PERIODONTICS	0	0	0	0	30	1	1
DENTAL RESEARCH	0	0	0	0	30	1	1
MORPHOLOGY, TOOTH	0	0	0	0	30	1	1
PERIODONTICS	0	0	0	0	30	1	1
PERIODONTOLOGY	0	0	0	0	30	1	1
ANATOMY, DENTAL	48	64	0	112	74	1	1



DENTAL HYGIENIST, CONTINUED

124 GENERAL EDUCATION

ENGLISH  
 PHYSICAL EDUCATION  
 SPEECH  
 ENGLISH  
 HISTORY GOVERNMENT AMERICAN  
 PHYSICAL EDUCATION  
 SPEECH  
 SPEECH  
 ENGLISH  
 ENGLISH  
 ENGLISH  
 SPEECH  
 ENGLISH  
 SPEECH

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL
				TOTL			
	90	0	0	90	27	1	1
	0	0	0	0	27	1	1
	45	0	0	45	27	1	1
	90	0	0	90	30	1	1
	90	0	0	90	30	1	1
	30	0	0	30	30	1	1
	30	0	0	30	30	1	1
	0	0	0	0	30	1	1
	45	0	0	45	73	1	1
	48	0	0	48	73	1	1
	48	0	0	48	73	1	1
	48	0	0	48	73	1	1
	45	0	0	45	74	1	1
	45	0	0	45	74	1	1
	0	0	0	0	27	1	1
	0	0	0	0	27	1	1
	0	0	0	0	73	1	1

125 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES

DENTAL TECHNICIAN		CAREER NUMBER 10				CLAS	LEVL
	UNCOMMON	LECT	LAB	CLIN	TOTL	INST	
	CUSPAL COORDINATION	0	0	0	225	06	1
	DENTURES, FULL	0	0	0	300	06	1
	DENTURES, REMOVABLE PARTIAL	0	0	0	300	06	1
	INLAYS-CROWN AND BRIDGEWORK	0	0	0	515	06	1
.3	ANATOMY	0	0	0	255	06	1
	ANATOMY	0	0	0	255	06	1
	MORPHOLOGY	0	0	0	255	06	1
.89	DENTAL MATERIALS	0	0	0	225	06	1
	GYPSSUM PRODUCTS	0	0	0	225	06	1

PHYSICAL THERAPIST

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL	
				TOTL				
0 UNCOMMON	3	0	0	3	34	1	1	
DERMATOLOGY	11	0	0	11	75	1	1	
JOURNAL CLUB 1	11	0	0	11	75	1	1	
JOURNAL CLUB 2	11	0	0	11	75	1	1	
JOURNAL CLUB 3	11	0	0	11	75	1	1	
JOURNAL CLUB 4	11	0	0	11	75	1	1	
JOURNAL CLUB	15	0	0	15	60	1	1	
SEMINAR	30	0	0	30	95	1	1	
3 ANATOMY	30	180	0	210	2	1	5	
ANATOMY, HUMAN AND APPLIED	45	90	0	135	28	1	1	
ANATOMY	32	0	0	32	66	1	1	
ANATOMY 1	0	6	0	96	66	1	1	
ANATOMY 2	81	166	0	247	71	1	1	
ANATOMY-HUMAN DISSECTION	63	6	1000	1069	71	1	1	
ANATOMY, FUNCTIONAL	33	30	0	63	75	1	1	
ANATOMY, FUNCTIONAL	44	73	0	117	75	1	1	
ANATOMY, GROSS 2	44	91	0	135	75	1	1	
ANATOMY, GROSS	22	53	0	75	80	1	1	
ANATOMY, APPLIED	60	90	0	150	80	1	1	
ANATOMY, HUMAN	30	90	0	120	95	1	1	
ANATOMY, GROSS								
6 HUMAN GROWTH AND DEVELOPMENT	45	0	0	45	28	1	1	
DEVELOPMENT, CHILD	15	0	0	15	30	1	1	
GROWTH AND DEVELOPMENT, CHILD								
10 PHYSIOLOGY	0	0	600	600	2	1	5	
EXPERIENCE, CLINICAL	60	90	0	150	2	1	5	
PHYSIOLOGY, GEN. AND APPLIED	45	90	0	135	28	1	1	
PHYSIOLOGY, APPLIED	30	0	0	30	28	1	1	
PHYSIOLOGY, APPLIED	60	90	0	150	30	1	1	
PHYSIOLOGY, APPLIED	22	23	0	45	30	1	1	
PHYSIOLOGY 1	20	23	0	43	34	1	1	
PHYSIOLOGY 2	25	29	0	54	34	1	1	
PHYSIOLOGY	32	0	0	32	66	1	1	
PHYSIOLOGY	64	48	0	112	71	1	1	
PHYSIOLOGY	0	0	0	90	72	1	1	
PHYSIOLOGY	55	88	0	143	75	1	1	
PHYSIOLOGY 1	30	0	0	30	80	1	1	
PHYSIOLOGY 2	30	0	0	30	80	1	1	

PHYSICAL THERAPIST, CONTINUED

	LECT	LAB	GLIN	CAREER NUMBER	INST	CLAS	LEVEL
				TOTL			
10	30	90	0	120	95	1	1
	45	60	0	105	95	1	1
				225			
13	15	0	0	15	30	1	1
	8	0	0	8	66	1	1
	7	71	0	78	71	1	1
	15	0	0	15	72	1	1
	22	0	0	22	75	1	1
	15	0	0	15	95	1	1
15	0	0	0	60	72	1	1
16	16	0	0	16	66	1	1
	30	0	0	30	80	1	1
	30	0	0	30	95	1	1
	45	0	0	45	95	1	1
17	15	0	0	15	30	1	1
	4	0	0	4	34	1	1
	12	0	0	12	75	1	1
20	6	0	0	6	34	1	1
21	8	0	0	8	66	1	1
22	15	0	0	15	2	1	5
	30	0	0	30	28	1	1
	30	0	0	30	30	1	1
	12	0	0	12	34	1	1
	16	0	0	16	71	1	1
	30	0	0	30	72	1	1
	45	0	0	45	80	1	1

10 PHYSIOLOGY, CONTINUED  
 PHYSIOLOGY  
 PHYSIOLOGY

13 ETHICS, PROFESSIONAL  
 ETHICS AND ADMINISTRATION  
 ETHICS AND ADMINISTRATION  
 RELATIONSHIPS, PROFESSIONAL, ETHICS  
 ETHICS AND ADMINISTRATION  
 RELATIONSHIPS, PROF. AND COMMUNITY  
 ETHICS, ORG. + ADMN.

15 MATHEMATICS  
 MATHEMATICS

16 PSYCHOLOGY, GENERAL  
 PSYCHOLOGY  
 PSYCHOLOGY  
 PSYCHOLOGY  
 PSYCHOLOGY

17 HEALTH, PERSONAL AND COMMUNITY  
 HEALTH, PERSONAL AND COMMUNITY  
 HEALTH, PUBLIC  
 HEALTH, PUBLIC-INTRO. TO

20 MICROBIOLOGY  
 MICROBIOLOGY

21 PEDIATRICS  
 PEDIATRICS

22 NURSING, PSYCHIATRIC  
 PSYCHOLOGY  
 PSYCHOPATHOLOGY  
 PSYCHOLOGY OF PHYSICALLY DISABLED  
 PSYCHIATRY  
 PSYCHOLOGY OF HANDICAPPED  
 DISABILITY FACTORS-SOCIAL AND EMOTIONAL  
 PSYCHIATRY.

PHYSICAL THERAPIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
.25 THEOLOGY	45	0	0	45	30	1	1
PHYS. THERAPY RELIGION	30	0	0	30 <sup>135</sup>	30	1	1
RELIGION-SELECTED 1	30	0	0	30	30	1	1
RELIGION 2	30	0	0	30	30	1	1
RELIGION 3	30	0	0	30	30	1	1
.29 PHYSICS	30	45	0	75 <sup>150</sup>	30	1	1
PHYSICS 1	30	45	0	75 <sup>150</sup>	30	1	1
PHYSICS 2	100	93	0	193	34	1	1
PHYSICS	48	0	0	48	66	1	1
BIOPHYSICS	60	0	0	60	80	1	1
PHYSICS-PHYSICAL THERAPY	30	0	0	30	95	1	1
PHYSICS							
.43 HISTOLOGY	18	38	0	48	30	1	1
HISTOLOGY	24	44	0	68	75	1	1
HISTOLOGY							
.53 PATHOLOGY	30	0	0	30	2	1	5
PATHOLOGY	30	0	0	30	28	1	1
PATHOLOGY	45	0	0	45	30	1	1
PATHOLOGY	29	0	0	29	34	1	1
PATHOLOGY	32	0	0	32	66	1	1
PATHOLOGY-BASIC PRIN. OF DISEASE-INJURY	29	0	0	29	71	1	1
PATHOLOGY, GENERAL	30	0	0	30	72	1	1
PATHOLOGY 1	44	11	0	55 <sup>11</sup>	75	1	1
PATHOLOGY 2	22	11	0	33 <sup>11</sup>	75	1	1
HISTOLOGY AND PATHOLOGY	30	0	0	30	80	1	1
PATHOLOGY	30	0	0	30	95	1	1
.78 RADIOGRAPHY, INTRA-ORAL X-RAY	4	0	0	4	34	1	1
.90 PHYSICAL AGENTS, PHYSICAL THERAPY	30	135	0	165	2	1	5
AGENTS, PHYSICAL	15	45	0	60 <sup>145</sup>	28	1	1
AGENTS, PHYSICAL 1	15	90	0	105 <sup>145</sup>	28	1	1
AGENTS, PHYSICAL 2	8	23	0	31 <sup>142</sup>	30	1	1
MASSAGE 1	6	30	0	36 <sup>142</sup>	30	1	1
MASSAGE 2	30	45	0	75	30	1	1
THERAPY, PHYSICAL-HYDROTHERAPY	40	39	0	79 <sup>1</sup>	34	1	1
ELECTROTHERAPY-LOW FREQUENCY							



PHYSICAL THERAPIST, CONTINUED

90 PHYSICAL AGENTS, PHYSICAL THERAPY, CONTINUED  
 HYDROTHERAPY  
 MASSAGE  
 THERMOTHERAPY 1  
 THERMOTHERAPY 2  
 HYDROTHERAPY  
 MASSAGE  
 THERAPY, PHYS.-ELECTROTHERAPY + RADIATI  
 ELECTROTHERAPY  
 MASSAGE, HYDROTHERAPY AND BANDAGING  
 THERMOTHERAPY AND OCTINOTHERAPY  
 ELECTROTHERAPY  
 AGENTS, PHYSICAL-ELECTROTHERAPY  
 AGENTS, PHYSICAL-MASSAGE  
 AGENTS, PHYSICAL-THERMOTHERAPY  
 MASSAGE  
 AGENTS, PHYSICAL  
 AGENTS, PHYSICAL  
 AGENTS, PHYSICAL

91 NEUROLOGY  
 NEUROANATOMY, APPLIED  
 NEUROANATOMY  
 NEUROANATOMY  
 NEUROLOGY  
 NEUROSURGERY  
 NEUROLOGY  
 NEUROANATOMY  
 NEUROANATOMY  
 NEUROLOGY  
 NEUROLOGY

92 CLINICAL ASSIGNMENT, PHYSICAL THERAPY  
 EDUCATION, CLINICAL 1  
 EDUCATION, CLINICAL 2  
 INTERNSHIP  
 OBSERVATION, CLINICAL  
 CLINICAL ASSIGNMENT 1  
 CLINICAL ASSIGNMENT 2  
 PRACTICE, CLINICAL  
 EXPERIENCE, CLINICAL  
 EXPERIENCE, CLINICAL-A  
 EXPERIENCE, CLINICAL-B  
 OBSERVATION, CLINICAL 2

LECT	LAB	CLIN	CAREER NUMBER TOTL INST	CLAS	LEVL
15	30	0	45	1	1
19	20	0	39 <sup>289</sup>	1	1
23	23	0	46	1	1
40	40	0	80	1	1
8	24	0	32	1	1
16	48	0	64 <sup>176</sup>	1	1
32	48	0	80	1	1
41	32	1000	1073	1	1
37	59	0	96 <sup>125</sup>	1	1
23	23	0	46	1	1
22	23	0	45	1	1
22	44	0	66 <sup>187</sup>	1	1
11	44	0	55	1	1
22	44	0	66	1	1
7	23	0	30	1	1
30	60	0	90 <sup>248</sup>	1	1
30	60	0	90	1	1
36	72	0	108	1	1
45	0	0	45	1	1
22	23	0	45	1	1
60	15	1000	1075 <sup>108</sup>	1	1
20	0	0	20	1	1
3	3	0	3	1	1
8	15	0	23	1	1
16	20	0	36	1	1
22	23	0	45 <sup>60</sup>	1	1
15	0	0	15	1	1
45	0	0	45	1	1
0	0	75	75 <sup>675</sup>	1	1
0	0	600	600	1	1
0	0	450	450 <sup>450</sup>	1	1
0	0	0	0	1	1
0	0	6	6 <sup>466</sup>	1	1
0	0	480	480	1	1
0	0	640	640	1	1
0	0	718	718	1	1
0	0	180	180 <sup>450</sup>	1	1
0	0	270	270	1	1
0	0	60	60	1	1





PHYSICAL THERAPIST, CONTINUED

LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL
0	0	60	60	75	1	1
0	0	60	60 <sup>35</sup>	75	1	1
0	0	165	165	75	1	1
0	0	0	0	80	1	1
0	0	45	45 <sup>45c</sup>	80	1	1
0	0	405	405	80	1	1
15	0	0	15 <sup>30</sup>	95	1	1
0	0	375	375	95	1	1

92 CLINICAL ASSIGNMENT, PHYSICAL THERAPY, CONTINUED

OBSERVATION, CLINICAL 3  
 OBSERVATION, CLINICAL  
 TRAINING, CLINICAL  
 EXPERIENCE, CLINICAL 1  
 EXPERIENCE, CLINICAL 2  
 EXPERIENCE, CLINICAL 3  
 CLINICAL ASSIGNMENT  
 CLINICAL ASSIGNMENT

93 ORG. AND ADMIN., PHYSICAL THERAPY  
 HISTORY-ADMN. AND PROF. RELATIONSHIPS  
 HISTORY-ADMN. AND PROF. RELATIONSHIPS  
 PHYS. THERAPY-HISTORY AND TRENDS  
 ADMINISTRATION, PROF. AND LITERATURE  
 AGENCIES, PROF. AND SOCIAL-CORRELATION  
 PHYS. THERAPY-ADMN. AND CLIN. OBSERV.  
 PHYS. THERAPY-CURRENT LITERATURE + REL  
 PHYS. THERAPY-NURSING FOUNDATIONS OF  
 THERAPY, PHYSICAL, FOUNDATIONS OF  
 ORGANIZATION AND ADMINISTRATION  
 ADMINISTRATION, PHYS. THERAPY  
 ORGANIZATION-PHYSICAL THERAPY

30	0	0	30	2	1	5
30	0	0	30	28	1	1
15	0	0	15	30	1	1
38	0	0	38	34	1	1
16	0	0	16	71	1	1
16	0	0	16 <sup>107</sup>	71	1	1
16	0	0	16	71	1	1
22	4	0	26	71	1	1
21	12	0	33	71	1	1
22	0	0	22	75	1	1
15	0	0	15 <sup>30</sup>	80	1	1
15	0	0	15	80	1	1

94 ORIENTATION, PHYSICAL THERAPY

PATIENT CARE, INTRO. TO  
 ORIENTATION  
 CARE, PATIENT-INTRO. TO  
 CARE, PATIENT-INTRO TO  
 ORIENTATION PROFESSIONAL

30	18	0	48	34	1	1
21	12	0	33	71	1	1
12	22	0	34	75	1	1
15	0	0	15 <sup>30</sup>	80	1	1
15	0	0	15	80	1	1

95 PHYSICAL THERAPY

MEDICINE, CLINICAL  
 LECTURES, CLINICAL 1  
 LECTURES, CLINICAL 2  
 LECTURES, CLINICAL 3  
 CLINICAL MEDICINE  
 CLINICAL MEDICINE  
 INJURIES, INDUSTRIAL 2  
 INJURIES, INDUSTRIAL  
 THERAPY PHYS.-SPECIAL TOPIC  
 MEDICINE INTRO. TO  
 MEDICAL PROCEDURES, BASIC  
 MEDICINE 1

90	0	0	90	2	1	5
30	0	0	30 <sup>110</sup>	28	1	1
45	0	0	45	28	1	1
45	0	0	45	28	1	1
30	45	0	75	30	1	1
45	90	0	135 <sup>265</sup>	30	1	1
15	0	0	15	30	1	1
15	0	0	15	30	1	1
22	23	0	45	30	1	1
36	0	0	36	34	1	1
16	32	0	48	66	1	1
16	0	0	16	66	1	1

PHYSICAL THERAPIST, CONTINUED

LECT	LAB	CLIN	CAREER NUMBER INST	CLAS	LEVEL
16	30	0	46	1	1
16	30	0	46 <sup>202</sup>	1	1
16	30	0	46	1	1
85	0	0	85 <sup>123</sup>	1	1
36	0	0	38	1	1
30	45	0	75	1	1
22	23	0	45 <sup>160</sup>	1	1
30	0	0	30	1	1
30	0	0	30	1	1
0	30	0	30	1	1
20	0	0	20 <sup>164</sup>	1	1
33	0	0	33	1	1
45	0	0	45	1	1
44	0	0	44	1	1
22	0	0	22	1	1
15	0	0	15 <sup>30</sup>	1	1
15	0	0	15	1	1
90	0	0	90	1	1

95 PHYSICAL THERAPY, CONTINUED  
 MEDICINE 2  
 SURGICAL SPECIALTIES 1  
 SURGICAL SPECIALTIES 2  
 PHYS. THERAPY-MED. AND SURG. CONDITIONS  
 THERAPY MED. AND SURG. CONDITIONS  
 MEDICINE, CLINICAL ORIENTATION-A  
 MEDICINE, CLINICAL ORIENTATION-B  
 MEDICINE, PHYSICAL APPLIED-A  
 MEDICINE, PHYSICAL APPLIED-B  
 CLINICS, ELEMENTARY  
 MED. SCIENCES 1, INTRO. TO  
 MED. SCIENCES 2-INTRO. TO  
 MED. SCIENCES 3-INTRO. TO  
 MED. SCIENCES 4, INTRO. TO  
 PROBLEMS CLINICAL-ADVANCED  
 MEDICINE GENERAL  
 SURGERY GENERAL  
 LECTURES, CLINICAL

96 THERAPEUTIC EXERCISE

LECT	LAB	CLIN	CAREER NUMBER INST	CLAS	LEVEL
30	180	1000	1210	1	5
15	45	0	60	1	1
15	90	0	105 <sup>330</sup>	1	1
15	90	0	105	1	1
30	0	0	30	1	1
30	0	0	30	1	1
15	0	0	15	1	1
45	45	0	90	1	1
30	90	0	120 <sup>210</sup>	1	1
15	0	0	15	1	1
15	0	0	15	1	1
15	0	0	15	1	1
97	95	0	192	1	1
36	0	0	36 <sup>382</sup>	1	1
15	14	0	29	1	1
40	41	0	81	1	1
22	22	0	44	1	1
80	96	0	176 <sup>208</sup>	1	1
32	0	0	32	1	1
9	12	0	21 <sup>1247</sup>	1	1
84	80	1000	1164	1	1
33	29	0	62	1	1
45	45	0	90	1	1

EXERCISE, THERAPEUTIC, AND ASSISTIVE DEV.  
 EXERCISE, THERAPEUTIC 1  
 EXERCISE, THERAPEUTIC 2  
 EXERCISE, THERAPEUTIC 3  
 THERAPY, PHYSICAL-INTRO. TO  
 THERAPY, PHYSICAL APPLIED  
 EXERCISE, THERAPEUTIC 1  
 EXERCISE, THERAPEUTIC 2  
 THERAPY, PHYSICAL-APPLIED 1  
 THERAPY, PHYSICAL-APPLIED 2  
 THERAPY, PHYSICAL-SEMINAR  
 EXERCISE, THERAPEUTIC  
 ORTHOPEDICS  
 PHYSICAL MEDICINE AND REHABILITATION  
 REHABILITATION TECHNIQUES  
 THERAPEUTIC ACTIVITIES, INTRO. TO  
 EXERCISE, THERAPEUTIC  
 THERAPY, PHYSICAL APPLIED  
 EXERCISE, PHYSIOLOGY OF  
 EXERCISE, THERAPEUTIC  
 PHYS. THERAPY-REHABILITATION  
 EXERCISE, THERAPEUTIC-A



PHYSICAL THERAPIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
196 THERAPEUTIC EXERCISE, CONTINUED	30	45	0	75 <sup>240</sup>	72	1	1
EXERCISE, THERAPEUTIC-B	30	45	0	75	72	1	1
THEORY AND TECHNIQUE	22	60	0	82	75	1	1
EXERCISE, THERAPEUTIC 1	22	44	0	66 <sup>216</sup>	75	1	1
EXERCISE, THERAPEUTIC 2	22	44	0	66	75	1	1
EXERCISE, THERAPEUTIC 3	22	44	0	66	75	1	1
THERAPY, PHYSICAL-INTRO. TO	22	0	0	22	75	1	1
DEVICES, ASSISTIVE	15	0	1000	1015	80	1	1
EXERCISE, PHYSIOLOGY OF	7	23	0	30	80	1	1
EXERCISE, THERAPEUTIC	60	45	0	105 <sup>190</sup>	80	1	1
ORTHOPEDIES	30	0	0	30	80	1	1
PHYS. THERAPY, APPLICATION OF	15	45	0	60	80	1	1
PROCEDURES, PHYS. THERAPY	45	45	0	90	80	1	1
DEVICES, ASSISTIVE	30	0	0	30	95	1	1

101 KINESIOLOGY  
 KINESIOLOGY  
 ANATOMY AND KINESIOLOGY  
 ANATOMY AND KINESIOLOGY  
 KINESIOLOGY  
 KINESIOLOGY

30	45	0	75	28	1	1
75	135	0	210	30	1	1
200	396	0	596	34	1	1
32	48	0	80	66	1	1
25	5	0	30	95	1	1

105 TESTS AND MEASUREMENTS, PHYSICAL  
 TESTS AND MEASUREMENTS, PHYSICAL  
 TESTS AND MEASUREMENTS, PHYSICAL  
 MUSCLE TESTING AND TRAINING  
 MUSCLE TESTING  
 TESTS AND MEASUREMENTS 1, PHYSICAL  
 TESTS AND MEASUREMENTS 2, PHYSICAL

15	90	0	105	2	1	5
30	45	0	75	28	1	1
42	42	0	84	34	1	1
22	23	0	45	72	1	1
11	22	0	33 <sup>121</sup>	75	1	1
22	66	0	88	75	1	1

124 GENERAL EDUCATION  
 SPEECH  
 COMPOSITION, ENGLISH  
 HUMANITIES  
 LANGUAGES, FOREIGN  
 SCIENCES, NATURAL  
 SCIENCES, SOCIAL  
 UNIV. COURSES, GENERAL REQUIRED  
 SPEECH

2	0	0	2	34	1	1
0	0	0	45 <sup>1090</sup>	72	1	1
0	0	0	180	72	1	1
0	0	0	240	72	1	1
0	0	0	360	72	1	1
0	0	0	265	72	1	1
0	0	0	900	80	1	1
30	0	0	30	95	1	1

PHYSICAL THERAPIST, CONTINUED

125 ELECTIVES  
 ELECTIVES (1)  
 ELECTIVES (2)  
 ELECTIVES (3)

LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
75	0	0	75	95	1	1
90	0	0	90	95	1	1
90	0	0	90	95	1	1

PHYSICAL THERAPY ASSISTANT		CAREER NUMBER 12				CLAS	LEVEL
		LECT	LAB	CLIN	TOTL	INST	
0	UNCOMMON ORIENTATION TO AFFILIATING HOSPITALS	45	0	0	45	54	1 5
3	ANATOMY ANATOMY, FUNCTIONAL	30	45	0	75	54	1 5
4	ANATOMY AND PHYSIOLOGY ANATOMY • PHYSIOLOGY	30	45	0	75	54	1 5
-13	ETHICS, PROFESSIONAL ETHICS, ORG. ADMN.	30	0	0	30	54	1 5
16	PSYCHOLOGY, GENERAL PSYCHOLOGY	45	0	0	45	54	1 5
-27	FIRST AID FIRST AID	22	23	0	45	54	1 5
.62	OFFICE PRACTICE OFFICE PROCEDURES	45	0	0	45	54	1 5
.64	TERMINOLOGY, MEDICAL TERMINOLOGY	30	0	0	30	54	1 5
.90	PHYSICAL AGENTS, PHYSICAL THERAPY AGENTS, PHYSICAL AGENTS, PHYSICAL	30 30	45 45	0 0	75 } <sup>150</sup> 75 }	54 54	1 5 1 5
.92	CLINICAL ASSIGNMENT, PHYSICAL THERAPY CLINICAL ASSIGNMENT	0	0	270	270	54	1 5
.94	ORIENTATION, PHYSICAL THERAPY PATIENT, PREPARATION OF	30	45	0	75	54	1 5
.95	PHYSICAL THERAPY ACTIVITIES OF DAILY LIVING ESCORT SERVICE MEDICAL ASSISTING SKILLS	30 15 15	45 45 45	0 0 0	75 } <sup>195</sup> 60 } 60 }	54 54 54	1 5 1 5 1 5

PHYSICAL THERAPY ASSISTANT, CONTINUED

196 THERAPEUTIC EXERCISE  
CONDITIONS TREATED  
EXERCISE, THERAPEUTIC

124 GENERAL EDUCATION  
COMMUNICATION SKILLS

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
	45	0	0	45	54	1	5
	30	45	0	75	54	1	5
	45	0	0	45	54	1	5

OCCUPATIONAL THERAPIST

CAREER NUMBER 13.

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0 UNCOMMON							
SEMINAR	15	0	75	90	63	1	1
STUDY, DIRECTED	30	45	0	75	63	1	1
SEMINAR	30	0	0	30	60	1	1
13 ANATOMY							
ANATOMY	30	180	0	210	2	1	1
ANATOMY, HUMAN	45	45	0	90	51	1	1
ANATOMY	30	180	0	210	60	1	1
ANATOMY, HUMAN	60	135	0	195	70	1	1
14 ANATOMY AND PHYSIOLOGY							
ANATOMY + PHYSIOLOGY [1]	45	90	0	135	63	1	1
ANATOMY + PHYSIOLOGY [2]	30	135	0	165	63	1	1
ANATOMY + PHYSIOLOGY, HUMAN	45	90	0	135	69	1	1
19 CLINICAL PRACTICE, NURSING							
HANDCRAFTS-JEWELRY	0	2	3000	3	7	1	1
10 PHYSIOLOGY							
PHYSIOLOGY	45	90	0	135	2	1	1
READJUSTMENT, INDIVIDUAL	15	0	0	15	2	1	1
PHYSIOLOGY	60	90	0	150	30	1	1
PHYSIOLOGY	30	45	0	75	51	1	1
PHYSIOLOGY	45	45	0	90	69	1	1
PHYSIOLOGY	30	45	0	75	70	1	1
16 PSYCHOLOGY, GENERAL							
EDUCATION, SPECIAL AND ADULT	75	225	0	300	2	1	1
PSYCHOLOGY	45	0	0	45	2	1	1
PSYCHOLOGY	30	0	0	30	51	1	1
PSYCHOLOGY	45	0	0	45	51	1	1
PSYCHOLOGY	15	0	0	15	63	1	1
PSYCHOLOGY	15	0	0	15	63	1	1
PSYCHOLOGY	45	0	0	45	60	1	1
19 SOCIOLOGY							
AGENCIES, SOCIAL AND EDUCATION	15	0	0	15	2	1	1
SOCIOLOGY	30	0	0	30	2	1	1

OCCUPATIONAL THERAPIST, CONTINUED

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
20 MICROBIOLOGY	15	0	0	15	49	1	1
21 PEDIATRICS							
PEDIATRICS	22	23	0	45	2	1	1
PEDIATRICS, OCCUP. THERAPY IN	30	45	0	75	30	1	1
PEDIATRICS, THEORY-OCCUP. THERAPY	22	23	0	45	70	1	1
22 NURSING, PSYCHIATRIC							
PSYCHIATRY	22	23	0	45	2	1	1
PSYCHIATRY, OCCUP. THERAPY	15	45	0	60	30	1	1
OCCUPATIONAL THERAPY (PREVENTIVE	30	45	0	75	51	1	1
PSYCHIATRY	45	0	0	45	51	1	1
PSYCHIATRY	45	0	0	45	51	1	1
CLERKSHIP, PSYCHIATRIC (AND SEMINAR)	15	0	0	15	63	1	1
PSYCHIATRY	30	0	0	30	63	1	1
PSYCHIATRY	45	0	0	45	63	1	1
PSYCHIATRY	30	0	110	140	68	1	1
23 THEOLOGY							
RELIGION 1	30	0	0	30	30	1	1
RELIGION 2	30	0	0	30	30	1	1
RELIGION 3	30	0	0	30	30	1	1
53 PATHOLOGY							
PATHOLOGY	15	0	0	15	69	1	1
64 TERMINOLOGY, MEDICAL							
MEDICAL TERMINOLOGY	45	0	0	45	69	1	1
90 PHYSICAL AGENTS, PHYSICAL THERAPY							
DEVICES, ASSISTIVE AND ORTHOTICS	15	45	0	60	70	1	1
MEDIA, ADAPTATION OF	15	45	0	60	70	1	1
91 NUROLOGY							
NEUROANATOMY	45	0	0	45	2	1	1
NEUROLOGY	7	23	1000	1030	2	1	1
NEUROANATOMY	22	23	0	45	30	1	1
NEUROLOGY	30	45	0	75	51	1	1
NEUROLOGY	15	45	0	60	63	1	1
NEUROLOGY	45	0	0	45	63	1	1
NEUROLOGY	15	0	0	15	70	1	1





OCCUPATIONAL THERAPIST, CONTINUED

98 HANDCRAFTS, CONTINUED

HANDCRAFTS  
 HANDCRAFTS  
 HANDCRAFTS  
 HANDCRAFTS  
 HANDCRAFTS  
 HANDCRAFTS  
 HART, COMMERCIAL-GRAPHIC PROCESSES  
 CERAMICS-1  
 DESIGN 1  
 DESIGN 2  
 HANDCRAFTS-MINOR CRAFTS  
 HANDCRAFTS-SCREEN PRINTING  
 HANDCRAFTS-WEAVING  
 HANDCRAFTS-WOODWORK

99 OCCUPATIONAL THERAPY GENERAL AND SURGERY

MEDICINE, GENERAL  
 TUBERCULOSIS  
 LECTURES, MEDICAL  
 MEDICINE, CLINICAL 1  
 MEDICINE, CLINICAL 2  
 CLINICAL ASSIGNMENT  
 LECTURES, CLINICAL  
 LECTURES, CLINICAL  
 LECTURES, CLINICAL  
 LECTURES, CLINICAL  
 LECTURES, CLINICAL  
 THEORY, ADVANCED  
 LECTURES, CLINICAL  
 LECTURES, CLINICAL

100 PRINCIPLES AND PRACTICES, OCCUP. THERAPY

PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE  
 PRINCIPLES + PRACTICE

LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL
			TOTL			
30	45	0	75	63	1	1
30	45	0	75	63	1	1
30	45	0	75	63	1	1
7	23	0	30	63	1	1
7	23	0	30	63	1	1
7	23	0	30	63	1	1
7	23	0	30	63	1	1
15	0	0	15	70	1	1
15	45	0	60	70	1	1
15	45	0	60	70	1	1
15	45	0	60	70	1	1
22	53	0	75	70	1	1
15	45	0	60	70	1	1
15	45	0	60	70	1	1
15	45	0	60	70	1	1
45	45	0	90	2	1	1
22	23	0	45	2	1	1
15	0	0	15	30	1	1
75	0	0	75	30	1	1
45	0	0	45	30	1	1
0	90	0	90	51	1	1
30	0	0	30	51	1	1
30	0	0	30	51	1	1
30	0	0	30	51	1	1
45	0	0	45	63	1	1
30	0	75	1057	60	1	1
30	0	0	30	60	1	1
195	0	0	195	68	1	1
75	0	0	75	69	1	1
15	90	0	105	51	1	1
30	45	0	75	51	1	1
15	45	0	60	63	1	1
15	0	300	315	68	1	1
30	90	0	120	68	1	1
30	0	360	390	60	1	1
30	90	0	120	68	1	1
45	0	0	45	68	1	1
45	0	0	45	68	1	1
0	270	0	270	68	1	1

OCCUPATIONAL THERAPIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
100 PRINCIPLES AND PRACTICES, OCCUP. THERAPY, CONTINUED				13			
PRINCIPLES + PRACTICE	0	270	0	270	68	1	1
PRINCIPLES + PRACTICE	15	45	0	60	69	1	1
PRINCIPLES + PRACTICE	15	135	0	150	69	1	1
PRINCIPLES + PRACTICE	45	180	0	225 <sup>101C</sup>	69	1	1
PRINCIPLES + PRACTICE	60	90	0	150	69	1	1
PRINCIPLES + PRACTICE	45	135	0	180	69	1	1
PRINCIPLES + PRACTICE	90	225	0	315	69	1	1
OCCUP. THERAPY 3	15	45	0	60	70	1	1
OCCUP. THERAPY 4	15	45	0	60	70	1	1
OCCUP. THERAPY 5	15	45	0	60	70	1	1
OCCUP. THERAPY 6	30	45	0	75	70	1	1

101 KINESIOLOGY

KINESIOLOGY	30	0	0	30	2	1	1
ANATOMY AND KINESIOLOGY	75	135	0	210	30	1	1
KINESIOLOGY	30	45	0	75	51	1	1
KINESIOLOGY	45	45	0	90	63	1	1
KINESIOLOGY	45	0	0	45	68	1	1
KINESIOLOGY	30	45	0	75	69	1	1
KINESIOLOGY, APPLIED	15	23	0	38 <sup>113</sup>	70	1	1
KINESIOLOGY, APPLIED	30	45	0	75	70	1	1

102 ORG. AND ADMIN., OCCUP. THERAPY

ADMINISTRATION OF OCCUP. THERAPY	15	0	0	15	2	1	1
DISABILITIES PHYSICAL	60	0	0	60	51	1	1
ORGANIZATION + ADMIN.	30	0	0	30	69	1	1
ORGANIZATION AND ADMINISTRATION	15	0	0	15	70	1	1

103 PHYSICAL DISABILITIES

DISABILITY, PHYSICAL IN OCCUP. THERAP	15	45	0	60	30	1	1
DISABILITY, PHYSICAL OCCUP. THERAPY	15	45	0	60	30	1	1
DISABILITIES, PHYSICAL	15	0	0	15	63	1	1
DISABILITIES, PHYSICAL	30	0	0	30	63	1	1
DISABILITIES, PHYSICAL	45	90	0	135	63	1	1
DISABILITIES, PHYSICAL	45	90	0	135	63	1	1

104 CLINICAL ASSIGNMENT, OCCUP. THERAPY

TRAINING, CLINICAL	0	0	600	600	2	1	1
INTERNSHIP, OCCUP. THERAPY	0	0	3510	3510	30	1	1
PRACTICUM, OCCUP. THERAPY 1	30	0	0	30	30	1	1
PRACTICUM, OCCUP. THERAPY 2	15	45	0	60	30	1	1
CLINICAL ASSIGNMENT	0	0	609	605	51	1	1
CLINICAL ASSIGNMENT	0	0	675	675	63	1	1

OCCUPATIONAL THERAPIST, CONTINUED

104 CLINICAL ASSIGNMENT, OCCUP. THERAPY, CONTINUED  
 CLINICAL ASSIGNMENT  
 CLINICAL ASSIGNMENT  
 HOSPITAL TRAINING 3  
 HOSPITAL TRAINING 4  
 HOSP. TRAINING 2

105 TESTS AND MEASUREMENTS, PHYSICAL  
 RESEARCH METHODOLOGY (INTRODUCTION)  
 MUSCLE TESTING

124 GENERAL EDUCATION  
 LIBERAL ARTS COURSES PREREQUISITE  
 COMMUNICATION SERVICES

125 ELECTIVES  
 ELECTIVES

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
	0	0	480	480	68	1	1
	0	0	0	0	69	1	1
	0	0	450	450	70	1	1
	0	0	300	300 <sup>(1150)</sup>	70	1	1
	0	0	300	300	70	1	1
	30	0	0	30	51	1	1
	3	12	0	15	70	1	1
	0	0	0	930	30	1	1
	60	0	0	60	69	1	1
	45	0	0	45	30	1	1

OCCUPATIONAL THERAPY ASSISTANT

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0 UNCOMMON SERVICES HOSPITAL, ORIENTATION	21	0	0	21	22	1	3
18 HUMAN RELATIONSHIPS DYNAMICS-GROUP	8	0	0	8	22	1	3
22 NURSING, PSYCHIATRIC PERSONALITY DEVELOPMENT	20	0	0	20	22	1	3
PERSONALITY DEVELOPMENT	24	0	0	24	22	1	3
64 TERMINOLOGY, MEDICAL TERMINOLOGY AND MEDICAL	2	0	0	2	22	1	3
96 THERAPEUTIC EXERCISE SKILLS, SPECIALTY SKILLS, SPECIALTY TREATMENT	125	0	0	125	22	1	3
	95	0	0	95	22	1	3
	3	0	0	3	22	1	3
97 ORIENTATION, OCCUPATIONAL THERAPY ORIENTAION, INSTITUTIONAL ACTIVITY THERAPY OCCUP. HISTORY AND PHILOSOPHY TRAINING PROGRAM INTRO. TRAINING PROGRAM INTRO.	36	0	0	36	22	1	3
	2	0	0	2	22	1	3
	1	0	0	1	22	1	3
	1	0	0	1	22	1	3
100 PRINCIPLES AND PRACTICES, OCCUP. THERAPY THERAPY OCCUPATIONAL GENERAL PRACTICE THERAPY OCCUPATIONAL MENTALLY ILL THERAPY OCCUPATIONAL ROLE AND FUNCTION THERAPY OCCUPATIONAL ROLE AND FUNCTION	75	0	0	75	22	1	3
	78	0	0	78	22	1	3
	2	0	0	2	22	1	3
	2	0	0	2	22	1	3
104 CLINICAL ASSIGNMENT, OCCUP. THERAPY CLINICAL CONDITIONS CLINICAL CONDITIONS CLINICAL PRACTICE CLINICAL PRACTICE	55	0	0	55	22	1	3
	3	0	0	3	22	1	3
	0	0	145	145	22	1	3
	0	0	145	145	22	1	3
105 TESTS AND MEASUREMENTS, PHYSICAL EVALUATION EVALUATION	7	0	0	7	22	1	3
	9	0	0	9	22	1	3



INHALATION THERAPIST

	LECT	LAB	CLIN	CAREER NUMBER	15	CLAS	LEVL
				TOTL	INST		
0 UNCOMMON	88	0	0	88	15	1	3
REPORTS AND DISCUSSION-JOURNAL CLUB							
ORIENTATION	8	0	0	8	33	1	3
3 ANATOMY							
ANATOMY	12	0	0	12	14	1	3
ANATOMY	15	0	0	15	15	1	3
ANATOMY	12	0	0	12	25	1	5
ANATOMY	200	0	0	200	33	1	3
ANATOMY	36	0	0	36	82	1	3
4 ANATOMY AND PHYSIOLOGY							
ANATOMY AND PHYSIOLOGY	40	0	0	40	6	1	3
RESPIRATION AND PHYSIOLOGY-ANATOMY	80	0	0	60	7	1	3
ANATOMY AND PHYSIOLOGY ADV	32	48	0	80	20	1	2
ANATOMY AND PHYSIOLOGY	48	96	0	144	20	1	2
5 CHEMISTRY, GENERAL							
CHEMISTRY	8	0	0	8	6	1	3
CHEMISTRY	6	0	0	6	14	1	3
CHEMISTRY	20	0	0	20	15	1	3
CHEMISTRY	6	0	0	6	25	1	5
CHEMISTRY	200	0	0	200	33	1	3
10 PHYSIOLOGY							
PHYSIOLOGY	12	0	0	12	14	1	3
PHYSIOLOGY	15	0	0	15	15	1	3
PHYSIOLOGY	12	0	0	12	25	1	5
PHYSIOLOGY OF RESPIRATION AND CIRC.	0	0	0	0	33	1	3
CARDIOPULMONARY PHYSIOLOGY	61	0	0	61	82	1	3
13 ETHICS, PROFESSIONAL							
ADJUSTMENT PROFESSIONAL	24	0	0	24	6	1	3
ETHICS AND ADMINISTRATION	5	0	0	5	7	1	3
ETHICS AND ADMINISTRATION	15	0	30	45	14	1	3
ETHICS AND ADMINISTRATION	15	30	0	45	25	1	5
MEDICAL	12	30	0	42	25	1	5
ADJUSTMENT PROFESSIONAL	15	0	0	15	33	1	3

INHALATION THERAPIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
				TOTL			
.15 MATHEMATICS	0	0	0	8	15	1	3
MATH-HOSPITAL							
MATH-LABORATORY	17	0	0	17	82	1	3
.16 PSYCHOLOGY, GENERAL							
PSYCHOLOGY	10	0	0	10	6	1	3
PSYCHOLOGY	10	0	0	10	7	1	3
PSYCHOLOGY	6	0	0	6	14	1	3
PSYCHOLOGY OF PATIENT CARE	10	0	0	10	15	1	3
PSYCHOLOGY GENERAL	48	0	0	48	20	1	2
PSYCHOLOGY	6	0	0	6	25	1	5
.17 HEALTH, PERSONAL AND COMMUNITY HEALTH	32	0	0	32	20	1	2
.20 MICROBIOLOGY							
BACTERIOLOGY	12	0	0	12	6	1	3
BACTERIOLOGY	5	0	0	5	7	1	3
BACTERIOLOGY	12	0	0	12	14	1	3
BACTERIOLOGY	17	0	0	17	15	1	3
MICROBIOLOGY GENERAL	32	96	0	128	20	1	5
BACTERIOLOGY	12	0	0	12	25	1	5
.21 PEDIATRICS							
PEDIATRICS	6	0	15	21	14	1	3
PEDIATRICS	6	15	42	63	25	1	5
INTERMITT POS PRESS BREATHING.	0	0	0	0	33	1	3
.23 ORSTETRICS							
OBSTETRICS	6	0	15	21	14	1	3
OBSTETRICS	6	15	39	60	25	1	5
.24 PHARMACOLOGY							
PHARMACOLOGY	40	0	0	40	6	1	3
MEDICATIONS	10	0	0	10	7	1	3
MEDICINE	12	0	30	42	14	1	3
PHARMACOLOGY	14	0	0	14	15	1	3
PHARMACOLOGY	9	0	0	9	25	1	5



INHALATION THERAPIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	15	CLAS	LEVEL
				TOTL	INST		
20 PHYSICS	20	0	0	20	6	1	3
PHYSICS-CHEMISTRY OF RESPIRATION	30	0	0	30	7	1	3
PHYSICS	10	0	0	10	14	1	3
PHYSICS OF MEDICINE	20	0	0	20	15	1	3
PHYSICS AND CONCEPTS	48	0	0	48	20	1	2
PHYSICS	10	0	0	10	25	1	5
30 ZOOLOGY	48	0	48	96	82	1	1
ZOOLOGY							
40 CHEMISTRY, INORGANIC	32	0	48	80	82	1	1
CHEMISTRY INORGANIC							
53 PATHOLOGY	30	0	0	30	6	1	3
PATHOLOGY	12	0	0	12	14	1	3
PATHOLOGY	15	0	0	15	15	1	3
PATHOLOGY	12	0	0	12	25	1	5
CARDIOPULMONARY DISEASE	60	0	0	60	82	1	3
64 TERMINOLOGY, MEDICAL	6	0	0	6	6	1	3
TERMINOLOGY AND MEDICAL							
84 ANESTHESIA	20	0	0	20	6	1	3
GASES-MEDICAL	8	0	0	8	33	1	3
ANESTHESIA							
91 NEUROLOGY	3	0	15	18	14	1	3
NEUROSURGERY	3	15	12	30	25	1	5
NEUROSURGERY							
106 ORG. AND ADMIN., INHALATION THERAPY	30	0	0	30	6	1	3
ADMINISTRATION	16	0	0	16	20	1	2
ADMINISTRATION PROCEDURES							
107 EQUIPMENT OPERATION, INHALATION THERAPY	30	0	0	30	6	1	3
BREATHING DEVICES, INTERMIT POS. PRES.	20	0	0	20	6	1	3
GAS SUPPLY SYSTEMS SAFETY	40	0	0	40	6	1	3
INCUBATORS CROUPETTES TENTS MASKS CANNU	10	0	0	10	6	1	3
SUCTION DEVICES VACUUM	10	0	0	10	6	1	3
EQUIPMENT TESTING AND ANALYSIS	10	0	15	25	14	1	3



INHALATION THERAPIST, CONTINUED

LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
10	0	20	30	14	1	3
5	0	15	20 <sup>220</sup>	14	1	3
5	0	20	25	14	1	3
15	0	25	40	14	1	3
15	0	30	45	14	1	3
10	0	25	35	14	1	3
132	0	0	132	15	1	3
6	6	23	35	25	1	3
12	30	26	68	25	1	3
6	15	7	28	25	1	3
21	33	14	68 <sup>546</sup>	25	1	3
12	21	36	69	25	1	3
18	45	42	105	25	1	3
18	45	42	105	25	1	3
15	30	23	68	25	1	3
0	0	0	0	33	1	3
0	0	0	0	33	1	3
0	0	0	0	33	1	3
0	0	0	0	33	1	3
50	0	0	50	82	1	3

107 EQUIPMENT OPERATION, INHALATION THERAPY, CONTINUED

- FACIAL DEVICES
- GAS SUPPLY SYSTEMS-REGULATOR
- HUMIDIFICATION-NEBULIZATION-VAPORIZATIO
- MAINTENANCE PREVENTATIVE
- PRESSURE BREATHING TECH.
- TENTS HOODS INCUBATORS
- EQUIPMENT OPERATION THER. TECHNIQUES
- ANALYZERS AND TESTERS
- CHAMBERS AND HOODS
- CYLINDERS AND REGULATORS
- HUMIDIFIERS AND NEBULIZERS
- MASKS AND CATHETERS
- RESUSCITATORS + RESPIRATORS
- RESUSCITATORS AND RESPIRATORS
- TENTS AND INCUBATORS
- EQUIPMENT AFTERCARE, COMPLETE REVIEW
- EQUIPMENT, PIPING SYSTEMS
- OXYGEN CYLINDER, REG. ANALYZERS
- OXYGEN TOXICITY EQUIP. CARE STERILIZATION
- EQUIPMENT TECHNIQUES

108 CLINICAL PRACTICE, INHALATION THERAPY

- CLINICAL PRACTICE
- VITAL SIGNS TEMP-PULSE-RESP.
- CLINICAL PRATS
- NURSING ARTS
- INHALATION THERAPY-CLINICAL MEDIC
- INHALATION THERAPY-NURSING ARTS
- CLINICAL INHALATION THERAPY EXP. ADV.
- CLINICAL INHALATION THERAPY EXP. BEG.
- CLINICAL INHALATION THERAPY EXP. INTERM
- CLINICAL PRACTICE
- CLINICAL PRACTICE
- NURSING ARTS
- OPER RM, DEL RM, POST-OP, REC RM
- PATIENT CARE-ART AND TECHNOLOGY

109 INHALATION THERAPY

- EMERGENCY THERAPY
- HYPERBARIC SYSTEM
- LUNG FUNCTION ANALYSIS
- CLINICAL ASPECTS INHALATION THERA
- METHODS PROCEDURES



INHALATION THERAPIST, CONTINUED

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS.	LEVEL
				TOTL	15		
109 INHALATION THERAPY, CONTINUED							
EMERGENCY	6	0	15	21	14	1	3
SAFE PRACTICES	5	0	5	10	14	1	3
SURGERY-GENERAL	6	0	15	21	14	1	3
SURGERY-THORACIC	6	0	15	21	14	1	3
SPECIALTY INTRO	4	0	0	4	15	1	3
FUNDAMENTAL INHALATION THERAPY	32	96	0	128	20	1	3
PROCEDURES APP. INHAL. THERAPY BEG.	16	0	56	72	20	1	3
PROCEDURES APPLICATION INHAL THERAPY AD	48	96	0	144	20	1	2
PRO. APP. INHAL. THERAPY INTERMED.	48	0	144	192	20	1	3
ASPIRATION AND SUCTION	4	5	20	29	25	1	5
BRONCHIOGRAM-SCOPE	4	4	22	30	25	5	8
EMERGENCY	6	15	0	21	25	1	5
HYPO.-HYPERTHERMIA	6	10	36	52	25	1	5
PULMONARY FUNCTION STUDIES	6	10	40	56	25	1	5
SURGERY-GENERAL	6	15	40	61	25	1	5
SURGERY-THORACIC	6	15	38	59	25	1	5
CLASS TEXT	75	0	0	75	33	1	3
ISOLATION	4	0	0	4	33	1	3
TECH USED, MAIN CONDITIONS + INTR	0	0	0	0	33	1	3
INHALATION THERAPY	33	0	0	33	82	1	3
LABORATORY TECHNIQUES	10	0	0	10	82	1	3
110 ORIENTATION, INHALATION THERAPY	4	0	0	4	15	1	3
HISTORY-INHALATION THERAPY	16	0	0	16	20	1	3
ORIENTATION-INHALATION THERAPY	0	0	0	0	33	1	3
INHALATION THERAPY DEPT., ORGAN. FUNCTI							
124 GENERAL EDUCATION							
ENGLISH-EFFECTIVE WRITING	48	0	0	48	20	1	2
FINE ARTS ELECTIVE	48	0	0	48	20	1	2
PHYSICAL EDUCATION	8	0	0	8	20	1	2
PHYSICAL EDUCATION	8	0	0	8	20	1	2
PHYSICAL EDUCATION	8	0	0	8	20	1	2
PHYSICAL EDUCATION	8	0	0	8	20	1	2
SCIENCE SOCIAL LIT - PHILOS- ELECTIVE	48	0	0	48	20	1	2
SPEECH EFFECTIVE SPEAKING	48	0	0	48	20	1	2
SCIENCES PHYSICAL	26	0	0	26	82	1	3
125 ELECTIVES	48	0	0	48	20	1	2
ELECTIVES							

MEDICAL ASSISTANT		CAREER NUMBER 16				CLAS	LEVEL
		LECT	LAB	CLIN	TOTL	INST	
0	UNCOMMON GROOMING	6	0	0	6	55	1
	LECTURES-DOCTORS AND OTHERS	10	0	0	10	55	1
4	ANATOMY AND PHYSIOLOGY	60	0	0	60	10	1
	ANATOMY AND PHYSIOLOGY 1	60	0	0	60	10	1
	ANATOMY AND PHYSIOLOGY 2	80	0	0	80	16	1
	ANATOMY TOPOGRAPHICAL AND ELEM. PHYSIOLO	0	0	0	0	54	1
	ANATOMY AND PHYSIOLOGY						
5	CHEMISTRY, GENERAL	24	36	0	60	10	1
	CHEMISTRY, CLINICAL						
13	ETHICS, PROFESSIONAL	7	3	0	10	55	1
	OFFICE MAGM.-ETHICS RECEPT SKILLS						
14	NUTRITION	0	0	0	0	54	1
	NUTRITION						
16	PSYCHOLOGY, GENERAL	0	0	0	0	54	1
	PSYCHOLOGY						
18	HUMAN RELATIONSHIPS	48	0	0	48	10	1
	PERSONAL DEVELOPMENT	48	0	0	48	10	1
	RELATIONS HUMAN						
20	MICROBIOLOGY	16	24	0	40	10	1
	BACTERIOLOGY						
27	FIRST AID	0	0	0	0	54	1
	FIRST AID						
34	PSYCHOLOGY, APPLIED	52	0	0	52	16	1
	PSYCHOLOGY APPLIED						
45	LAB. TECHNIQUES, MED. TECH.	0	0	0	228	16	1
	LABORATORY TECHNIQUES	0	0	0	0	54	1
	LABORATORY TECHNIQUES, MEDICAL						



MEDICAL ASSISTANT, CONTINUED

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
46 URINALYSIS URINE AND GASTRICS	24	36	0	60	10	1	2
49 ELECTROCARDIOGRAPH (EKG) EKG	4	4	0	8	55	1	5
50 HEMATOLOGY HEMATOLOGY	48	72	0	120	10	1	2
56 ACCOUNTING ACCOUNTING MEDICAL BOOKKEEPING	0 16	0 0	0 0	110 16	16 55	1 1	5 5
62 OFFICE PRACTICE OFFICE PRACTICE CLINICAL OFFICE PRACTICE MEDICAL OFFICE PROCEDURES CLINICAL ASSISTING SKILLS, MEDICAL EXTERNSHIP PROGRAM, HOSPITAL OFFICE PROCEDURE EXPERIENCE-INTERNSHIP DR.-OFFICE EXPERIENCE MEDICAL INSURANCE OFFICE NURSING OFFICE	120 84 0 0 0 0 0 0 10 36	0 0 0 0 0 0 0 0 4 6	0 0 0 0 0 0 0 160 0 0	120 84 78 0 0 0 160 14 42	10 10 16 54 54 54 55 55 55 55	1 1 1 1 1 1 1 1 1 1 1	2 2 5 5 3 5 5 5 5 5
63 SECRETARIAL PRACTICE AND PROCEDURES SECRETARIAL DUTIES MEDICAL RECORDS, MEDICAL COLLECTION ACCOUNTS	0 0 4	0 0 0	0 0 0	350 0 4	16 54 55	1 1 1	5 5 5
64 TERMINOLOGY, MEDICAL TERMINOLOGY AND MEDICAL TERMINOLOGY AND MEDICAL	0 79	0 65	0 0	0 144	54 55	1 1	5 5
65 TYPING TYPING 1 TYPING 2 TYPING 3 TYPING 4 TYPING	60 60 60 60 0	0 0 0 0 230	0 0 0 0 0	60 60 60 60 230	10 10 10 10 16	1 1 1 1 1	2 2 2 2 5



MEDICAL ASSISTANT, CONTINUED

CAREER NUMBER 16

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
-68 ADMINISTRATION, DEPARTMENTAL X-RAY DEPT MANAGEMENT	22	0	0	22	10	1	5
-82 RADIATION THERAPY X-RAY TECHNIQUE	0	0	0	1707	10	1	5
X-RAY TECHNIQUES	36	48	0	84	10	1	2
X-RAY TECHNIQUES	36	48	0	84	10	1	2
111 ORIENTATION, MEDICAL ASSISTANT FUTURE, FACING THE	24	0	0	24	16	1	5
124 GENERAL EDUCATION COMMUNICATIONS 1	36	0	0	36	10	1	2
COMMUNICATIONS 2	36	0	0	36	10	1	2
COMMUNICATIONS 3	24	0	0	24	10	1	2
COMMUNICATIONS 4	24	0	0	24	10	1	2
COMMUNICATION SKILLS	0	0	0	0	54	1	5
125 ELECTIVES MISC.	36	0	0	36	16	1	5

LABORATORY ASSISTANT	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVL
				TOTL			
0 UNCOMMON	0	0	0	0	53	1	5
TRAINING, LIMITATION OF							
4 ANATOMY AND PHYSIOLOGY	160	0	0	160	50	1	3
ANATOMY AND PHYSIOLOGY							
5 CHEMISTRY, GENERAL	0	0	0	0	53	1	5
CHEMISTRY, GENERAL	0	0	0	120 <sup>120</sup>	53	1	5
CHEMISTRY, CLINICAL	240	0	0	240	50	1	3
CHEMISTRY	120	0	1000	1200 <sup>1000</sup>	50	1	3
CHEMISTRY, CLINICAL	32	0	0	480	59	1	3
CHEMISTRY, CLINICAL	30	0	0	400	62	1	3
CHEMISTRY							
13 ETHICS, PROFESSIONAL	0	0	0	0	53	1	5
ETHICS AND MEDICAL	30	0	0	30	50	1	3
ADJUSTMENT PROFESSIONAL	15	0	0	15 <sup>70</sup>	50	1	3
ETHICS AND MEDICAL	30	0	0	30	50	1	3
ETHICS, CATHOLIC HOSPITAL							
15 MATHEMATICS	0	0	0	0	53	1	5
MATH-LABORATORY	180	0	0	180	50	1	3
MATHEMATICS BASIC LABORATORY							
20 MICROBIOLOGY	0	0	0	120	53	1	5
MICROBIOLOGY BACTERIOLOGY SERO. PARAS.	75	0	585	660	50	1	3
BACTERIOLOGY PARASITOLGY	18	0	0	240	59	1	3
BACTERIOLOGY	16	0	0	320	62	1	3
BACTERIOLOGY							
43 HISTOLOGY	0	0	0	20	53	1	5
HISTOLOGY							
45 LAB. TECHNIQUES, MED. TECH.	10	0	0	240	62	1	3
ROUTINE ANALYSIS							
46 URINALYSIS	0	0	0	160	53	1	5
URINALYSIS	12	0	0	120	50	0	0
URINALYSIS	45	0	414	459 <sup>57</sup>	50	1	3
URINALYSIS							

LABORATORY ASSISTANT	LECT	LAB	CLIN	CAREER NUMBER	17	CLAS	LEVEL
				TOTL	INST		
47 BLOOD BANK	0	0	0	40	53	1	5
BLOOD BANK	75	0	585	660	58	1	3
BLOOD BANK	18	0	0	240	59	1	3
BLOOD BANKING	10	0	0	240	62	1	3
49 ELECTROCARDIOGRAPH (EKG)	0	0	0	20	53	1	5
EKG							
50 HEMATOLOGY	0	0	0	160	53	1	5
HEMATOLOGY	90	0	810	900	58	1	3
HEMATOLOGY	24	0	0	48	59	1	3
HEMATOLOGY	20	0	0	400	62	1	3
54 SEROLOGY	12	0	0	12	58	1	3
SEROLOGY	45	0	414	459	58	1	3
SEROLOGY							
62 OFFICE PRACTICE	45	0	0	45	58	1	3
QUALITY CONTROL, BASIC ELEMENTS OF	15	0	0	15	58	1	3
RECORDS, LABORATORY							
64 TERMINOLOGY, MEDICAL	180	0	0	180	58	1	3
TERMINOLOGY AND MEDICAL							
112 BASAL METABOLISM RATE (BMR)	0	0	0	20	53	1	5
BMR	0	0	270	270	58	1	3
BMR, EKG	6	0	0	6	59	1	3
BMR, EKG	5	0	0	80	62	1	3
BMR, EKG							
113 LAB. ASSISTANT RESPONSIBILITIES	0	0	0	0	53	1	5
LAB. ASST. RESPONSIBILITY OF	0	0	0	0	53	1	5
LAB. SEVR. RELATIONSHIP TOTHERHOSP. DEPTS	0	0	J	0	53	1	5
LABORATORY, SAFETY IN	66	0	0	240	59	1	3
ORIENTATION	30	0	0	400	62	1	3
ORIENTATION-LABORATORY							
124 GENERAL EDUCATION	33	0	0	33	11	1	1
COMMUNICATION SKILLS							
							107

MEDICAL RECORD LIBRARIAN

	LECT	LAB	CLIN	TOTL	CAREER NUMBER	INST	CLAS	LEVEL
0 UNCOMMON	0	0	0	0	49	1	3	
AFILIATIONS (U.W. HOSPITALS)								
SCHOOL REQUIREMENTS FIELD OF	0	0	0	345	84		5	
3 ANATOMY	0	0	0	60	84	1	5	
ANATOMY								
4 ANATOMY AND PHYSIOLOGY	100	0	0	100	26	1	3	
ANATOMY AND PHYSIOLOGY	45	0	0	45 <sup>9c</sup>	77	1	1	
ANATOMY AND PHYSIOLOGY	0	45	0	45	77	1	1	
ANATOMY AND PHYSIOLOGY	0	0	0	105	79	1	1	
ANATOMY AND PHYSIOLOGY	0	0	0	120 <sup>24c</sup>	84	1	5	
ANATOMY AND PHYSIOLOGY	0	0	0	120	84	1	5	
5 CHEMISTRY, GENERAL	45	0	0	45 <sup>9c</sup>	77	1	1	
CHEMISTRY GENERAL	0	45	0	45	77	1	1	
CHEMISTRY GENERAL								
10 PHYSIOLOGY	0	0	0	60	84	1	5	
PHYSIOLOGY								
13 ETHICS, PROFESSIONAL	30	0	0	30	49	1	3	
ETHICS AND MEDICAL								
15 MATHEMATICS	54	0	0	54	30	1	1	
STATISTICS, INTRO	0	0	0	45	58	1	1	
ALGEBRA COLLEGE OR STATISTICS	45	0	0	45 <sup>IX</sup>	77	1	1	
ALGEBRA	45	0	0	45 <sup>IX</sup>	77	1	1	
MATHEMATICS FRIGONOMETRY	45	0	0	45	77	1	1	
MATH INTRO. STATISTICS 1	45	0	0	45	77	1	1	
MATH INTRO. STATISTICS 2	0	0	0	90 <sup>IX</sup>	84	1	5	
MATHEMATICS	0	0	0	45 <sup>IX</sup>	84	1	5	
MATH STATISTICS								
14 PSYCHOLOGY, GENERAL	25	0	0	25	26	1	3	
PSYCHOLOGY	45	0	0	45	77	1	1	
PSYCHOLOGY GENERAL	0	0	0	45	84	1	5	
PSYCHOLOGY INTRODUCTORY								



MEDICAL RECORD LIBRARIAN, CONTINUED

		LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
					TOTL			
19	SOCIOLOGY	45	0	0	45	77	1	1
	SOCIOLOGY AND GENERAL	0	0	0	90	84	1	5
	SCIENCE AND SOCIAL	0	0	0	90	84	1	5
	SCIENCE AND SOCIAL	0	0	0	45	84	1	5
	SCIENCE AND SOCIAL	0	0	0	45	84	1	5
	SCIENCE SOCIAL PSYCHOLOGY BUS. ADMIN.	0	0	0	180	84	1	5
	SOCIOLOGY AND PSYCHOLOGY	0	0	0	90	84	1	5
	SOCIOLOGY	0	0	0	45	84	1	5
	SCIENCE, SOCIAL	45	0	0	45	101	1	3
20	MICROBIOLOGY	0	15	0	15	69	1	1
	BACTERIOLOGY	0	90	0	90	77	1	1
	MICROBIOLOGY LAB.	30	0	0	30	77	1	1
	MICROBIOLOGY	0	0	0	45	84	1	5
25	THEOLOGY	120	0	0	120	39	1	1
	THEOLOGY 1	120	0	0	120	39	1	1
	THEOLOGY 2	120	0	0	120	39	1	1
	THEOLOGY 2	165	0	0	165	39	1	1
30	ZOOLOGY	45	0	0	45	77	1	1
	ZOOLOGY	0	0	0	0	77	1	1
34	PSYCHOLOGY, APPLIED	45	0	0	45	77	1	1
	PSYCHOLOGY APPLIED							
60	FILING	0	0	0	0	77	1	1
	FILING							
61	OFFICE MACHINES	0	0	0	0	77	1	1
	BUSINESS MACHINES	45	0	0	45	77	1	1
	BUSINESS MACHINES, ADV.	45	0	0	45	77	1	1
	COMPUTERS, INTRO TO	45	0	0	45	77	1	1
	PROGRAMMING	144	0	0	144	82	1	1
	BUSINESS MACHINES ADV. AND STATISTICS							

MEDICAL RECORD LIBRARIAN , CONTINUED

LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
64	0	0	64	7	1	3
30	0	0	30	26	1	3
30	0	0	30	28	1	1
15	0	0	15 <sup>30</sup>	39	1	1
15	0	0	15	39	1	1
45	0	0	48	49	1	3
30	0	0	30	52	1	3
36	0	0	36	58	1	3
0	0	0	45	69	1	1
30	0	0	30	77	1	1
0	0	0	30	79	1	1
0	0	0	60	84	1	5
60	0	0	60	85	1	1
39	0	0	39	86	1	3
30	0	0	30	100	1	1
60	0	0	60	101	1	3

64 TERMINOLOGY, MEDICAL  
 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY MEDICAL  
 TERMINOLOGY AND MEDICAL 1  
 TERMINOLOGY AND MEDICAL 2  
 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY AND MEDICAL  
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 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY AND MEDICAL  
 TERMINOLOGY, MEDICAL  
 TERMINOLOGY, MEDICAL

65 TYPING  
 TYPING

66 ECONOMICS  
 ECONOMICS, ELEMENTARY  
 ECONOMICS

114 ORG. AND ADMIN., MED. RECORDS LIBR.  
 ADMINISTRATION AND ORGANIZATION  
 MEDICAL RECORD ADMINISTRATION PROBLEMS  
 MANAGEMENT  
 ORGANIZATION + ADMINISTRATION  
 ORGANIZATION + ADMINISTRATION  
 HEALTH SERVICES, ORG. PATTERNS  
 OFFICE MANAGEMENT PERSONNEL  
 ADMINISTRATION AND ORGANIZATION  
 ADMINISTRATION PROBLEM SOLVING  
 MANAGEMENT AND ORGANIZATION  
 MEDICAL RECORD ADMINISTRATION PROBLEMS  
 MEDICAL RECORD ADMINISTRATION PROBLEMS  
 ADMINISTRATION AND ORGANIZATION  
 ADMINISTRATION AND ORGANIZATION  
 MEDICAL RECORD ADMINISTRATION PROBLEMS  
 ADMINISTRATION AND ORGANIZATION

LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
0	45	0	45	77	1	1
45	0	0	45	39	1	1
0	0	0	45	84	1	5
27	86	31	144 <sup>171</sup>	5	1	3
34	0	0	34	5	1	3
10	0	0	10	26	1	3
30	0	0	30	28	1	1
30	0	0	30	28	1	1
36	0	0	36 <sup>90</sup>	30	1	1
54	0	0	54	30	1	1
60	0	0	60	49	1	3
15	30	0	45	49	1	3
60	0	0	60	49	1	3
15	0	0	15	49	1	3
30	0	0	30	49	1	3
60	0	0	60	52	1	3
72	72	0	144	58	1	3
36	0	0	36	58	1	3
30	0	0	30	69	1	1

MEDICAL RECORD LIBRARIAN, CONTINUED

114 ORG. AND ADMIN., MED. RECORDS LIBR. CONTINUED  
 ADMINISTRATION AND ORGANIZATION  
 ADMINISTRATION AND ORGANIZATION  
 MEDICAL RECORD ADMINISTRATION PROBLEMS  
 ADMINISTRATIVE PROBLEMS  
 MEDICAL RECORD ADMINISTRATION PROBLEMS  
 OFFICE MANAGEMENT  
 ADMINISTRATION AND ORGANIZATION  
 PROBLEM SOLVING, SEMINAR  
 ADMINISTRATION AND ORGANIZATION PROBLEMS  
 MEDICAL RECORD ADMINISTRATION PROBLEM 1  
 ADMINISTRATION AND ORGANIZATION 2  
 ADMINISTRATION AND ORGANIZATION 4  
 ADMINISTRATION AND ORGANIZATION  
 MEDICAL RECORD ADMINISTRATION PROBLEMS  
 ORGANIZATION ADMINISTRATION

LECT	LAB	CLIN	CAREER NUMBER 18	INST	CLAS	LEVEL
			TOTL			
45	45	0	90 <sup>46c</sup>	69	1	1
45	45	0	90	69	1	1
250	0	0	250	69	1	1
30	0	0	30	77	1	1
60	90	90	240 <sup>31</sup>	77	1	1
45	0	0	45	77	1	1
15	0	0	15 <sup>4c</sup>	79	1	1
30	0	0	30	79	1	1
0	0	0	90 <sup>12c</sup>	84	1	5
0	0	0	30	84	1	5
24	24	96	144	85	1	1
24	24	0	48 <sup>228</sup>	85	1	1
36	0	0	36	85	1	1
78	65	0	143 <sup>176</sup>	86	1	3
33	0	0	33	86	1	3
90	0	0	90	100	1	1

115 DIRECTED PRACTICE, MED. RECORDS LIBR.

CLINICAL PRACTICE  
 WORK METHODS AND STANDARDS  
 CLINICAL PRACTICE  
 CLINICAL PRACTICE  
 CLINICAL PRACTICE  
 CLINICAL PRACTICE  
 CLINICAL PRACTICE  
 CLINICAL PRACTICE  
 CLINICAL PRACTICE 1  
 CLINICAL PRACTICE 2  
 CLINICAL PRACTICE 4  
 CLINICAL PRACTICE  
 PRACTICE, DIRECTED  
 DIRECTED PRACTICE EXPERIENCE  
 DIRECTED PRACTICE

0	0	417	417	5	1	3
36	0	0	36	30	1	3
0	0	420	420	49	1	3
0	0	345	345 <sup>1365</sup>	49	1	3
0	0	300	300	49	1	3
0	0	300	300	49	1	3
0	0	105	105	52	1	3
0	0	504	504	58	1	3
0	0	288	288	69	1	1
0	75	0	75 <sup>150</sup>	79	1	1
0	75	0	75	79	1	1
0	0	105	105	84	1	1
0	0	240	240	85	1	1
0	0	505	505	86	1	1
0	0	105	105	100	1	1
30	0	30	60 <sup>7c</sup>	101	1	1
30	0	0	30	101	1	1

116 MED. RECORD SCIENCE, MED. RECORDS LIBR.

CODING AND INDEXING  
 DISCHARGE ANALYSIS PROCEDURE  
 MEDICAL RECORD SCIENCE-LEC. AND LAB.  
 LIBRARY SCIENCE MEDICAL RECORD  
 MEDICAL RECORD SCIENCE  
 MEDICAL RECORD SCIENCE

0	41	0	41	5	1	3
0	145	0	145	5	1	3
0	0	0	312	5	1	3
100	0	0	100	26	1	1
30	0	0	30	28	1	1
30	0	0	30	28	1	1

MEDICAL RECORD LIBRARIAN, CONTINUED

114 MF.D. RECORD SCIENCE, MED. RECORDS LIBR., CONTINUED

LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
			TOTL			
30	0	0	50	28	1	1
45	0	0	45	28	1	1
75	0	225	300	28	1	1
75	0	450	525	28	1	1
72	0	0	72	30	1	1
72	0	0	72	30	1	1
30	0	0	30	39	1	1
60	0	0	60	39	1	1
60	0	0	60	39	1	1
30	0	0	30	39	1	1
30	0	0	30	39	1	1
30	0	0	30	49	1	1
30	30	0	60	49	1	3
48	0	0	45	49	1	3
75	30	0	105	49	1	3
180	0	0	180	52	1	1
60	0	0	60	52	1	1
144	144	0	288	58	1	1
60	60	60	180	69	1	1
60	60	60	180	69	1	1
60	60	180	300	69	1	1
45	90	90	225	77	1	1
30	0	0	30	77	1	1
0	0	0	45	79	1	1
45	0	0	45	79	1	1
0	0	0	150	84	1	5
48	48	0	96	85	1	1
48	48	0	96	85	1	1
48	48	0	96	85	1	1
144	140	0	284	86	1	3
180	0	0	180	100	1	1
30	0	0	30	100	1	1
60	0	0	60	101	1	1
90	0	900	990	101	1	3

117 MF.D. RECORD SCIENCE, FUNDAMENTALS

177	0	0	177	5	1	3
30	0	0	30	26	1	1
36	108	160	304	30	1	1
36	108	0	144	30	1	1
54	0	0	54	30	1	1
30	0	0	30	39	1	1
15	0	0	15	49	1	3

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
				TOTL			
117 MED. RECORD SCIENCE, FUNDAMENTALS, CONTINUED					18		
MEDICAL ESSENTIALS C.P.C.	15	0	0	15	49	1	3
MEDICAL ESSENTIALS	45	0	0	45	49	1	3
MEDICAL SCIENCE FUNDAMENTALS	60	0	0	60	52	1	3
MEDICAL SCIENCE FUNDAMENTALS 1	72	0	0	72	58	1	3
MEDICAL SCIENCE FUNDAMENTALS 2	30	0	0	30	69	1	1
MEDICAL SCIENCE FUNDAMENTALS 3	30	0	0	30	69	1	1
MEDICAL SCIENCE FUNDAMENTALS	30	0	0	30	69	1	1
MEDICAL SCIENCE FUNDAMENTALS	30	0	0	30	77	1	1
MEDICAL SCIENCE FUNDAMENTALS	90	0	8	98	77	1	1
MEDICAL SCIENCE FUNDAMENTALS	60	0	0	60	79	1	1
MEDICAL SCIENCE FUNDAMENTALS 2	0	0	0	0	84	1	5
MED. REC. SCIENCE AND MED. SCIENCE FUND	0	0	0	0	84	1	5
MEDICAL SCIENCE FUNDAMENTALS 1	60	0	0	60	85	1	1
MEDICAL SCIENCE FUNDAMENTALS 2	60	0	0	60	85	1	1
MEDICAL SCIENCE FUNDAMENTALS	110	0	0	110	86	1	3
MEDICAL RECORD SCIENCE FUNDAMENTALS	60	0	0	60	100	1	1
118 MED. RECORD SCIENCE, LEGAL ASPECTS							
MEDICAL RECORDS LEGAL ASPECTS OF	38	0	0	38	5	1	3
MEDICAL RECORD ADMIN., LEGAL ASPECTS	32	0	0	32	30	1	1
MEDICINE LEGAL	30	0	0	30	49	1	3
MEDICAL RECORDS LEGAL ASPECTS OF	30	0	0	30	52	1	1
MEDICAL RECORD SCIENCE LEGAL ASPECTS	36	0	0	36	58	1	3
MEDICAL RECORDS LEGAL ASPECTS OF	0	0	0	0	84	1	5
MEDICAL RECORDS LEGAL ASPECTS OF	36	0	48	84	85	1	1
MEDICAL RECORD SCIENCE LEGAL ASPECTS	33	0	0	33	06	1	3
LEGAL ASPECTS OF MEDICAL REC. SCIENCE	30	0	0	30	100	1	1
MEDICAL RECORDS LEGAL ASPECTS	30	0	0	30	100	1	1
LEGAL ASPECTS OF MED. REC. SCIENCE	30	0	0	30	101	1	3
124 GENERAL EDUCATION							
ART APPRECIATION	45	0	0	45	39	1	1
SCIENCE, POLITICAL	45	0	0	45	39	1	1
PHYSICAL EDUCATION	0	0	0	0	58	1	3
DEMOCRACY AND COMMUNISM	15	0	0	15	77	1	1
ENGLISH 1 COMPOSITION AND RHETORIC	45	0	0	45	77	1	1
ENGLISH 2 COMPOSITION AND RHETORIC	45	0	0	45	77	1	1
ENGLISH LITERATURE 1	45	0	0	45	77	1	1
ENGLISH LITERATURE 2	45	0	0	45	77	1	1
GOVERNMENT, AMERICAN	45	0	0	45	77	1	1
HISTORY, MODERN EUROPE	45	0	0	45	77	1	1
HISTORY, ANC. AND MEDICAL EUROPE	45	0	0	45	77	1	1
LANGUAGE AND FOREIGN	45	0	0	45	77	1	1

MEDICAL RECORD LIBRARIAN, CONTINUED

124 GENERAL EDUCATION, CONTINUED

LANGUAGE AND FOREIGN  
 LANGUAGE AND FOREIGN  
 LANGUAGE AND FOREIGN  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 SPEECH FUNDAMENTALS  
 BIOLOGY  
 BIOLOGY  
 ENGLISH COMP. AND LITERATURE  
 ENGLISH COMP. AND LIT.  
 ENGLISH LITERATURE  
 ENGLISH LIT.  
 ENGLISH  
 HUMANITIES  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 PHYSICAL EDUCATION  
 SCIENCES, BIOLOGICAL  
 SCIENCES, BIOLOGICAL  
 SPEECH  
 SPEECH  
 SPEECH  
 GENERAL EDUCATION  
 GENERAL EDUCATION  
 GENERAL EDUCATION  
 GENERAL EDUCATION  
 GENERAL EDUCATION  
 GENERAL EDUCATION  
 PHYSICAL EDUCATION

125 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES

LECT	LAB	CLIN	TOTL	INST	CLAS	LEVEL
45	0	0	45	77	1	1
45	0	0	45	77	1	1
45	0	0	45	77	1	1
0	45	0	45	77	1	1
0	45	0	45	77	1	1
0	45	0	45	77	1	1
0	45	0	45	77	1	1
45	0	0	45	77	1	1
0	0	0	120	84	1	5
0	0	0	120	84	1	5
0	0	0	90	84	1	5
0	0	0	90	84	1	5
0	0	0	45	84	1	5
0	0	0	45	84	1	5
0	0	0	90	84	1	5
0	0	0	90	84	1	5
0	0	0	30	84	1	5
0	0	0	30	84	1	5
0	0	0	30	84	1	5
0	0	0	30	84	1	5
0	0	0	30	84	1	5
0	0	0	30	84	1	5
0	0	0	90	84	1	5
0	0	0	90	84	1	5
0	0	0	120	84	1	5
0	0	0	45	84	1	5
0	0	0	45	84	1	5
0	0	0	45	84	1	5
60	0	0	60	98	1	3
30	0	0	30	101	1	3
60	0	0	60	101	1	3
60	0	0	60	101	1	3
90	0	0	90	101	1	3
90	0	0	90	101	1	3
90	0	0	90	101	1	3
15	0	0	15	101	1	3
0	0	0	90	58	1	3
45	0	0	45	77	1	5
0	0	0	90	84	1	5
0	0	0	90	84	1	5
0	0	0	240	84	1	5
0	0	0	75	84	1	5



MEDICAL RECORD LIBRARIAN, CONTINUED

125 ELECTIVES, CONTINUED

ELECTIVES  
 ELECTIVES  
 ELECTIVES  
 ELECTIVES

LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVL
0	0	0	180	84	1	5
0	0	0	180	84	1	5
0	0	0	180	84	1	5
0	0	0	180	84	1	5

MEDICAL RECORD TECHNICIAN

	LECT	LAB	CLIN	CAREER NUMBER	INST	CLAS	LEVEL
				TOTL			
3 ANATOMY	40	0	0	40	58	1	3
ANATOMY							
4 ANATOMY AND PHYSIOLOGY	40	0	0	40	96	1	3
ANATOMY AND PHYSIOLOGY	60	0	0	60	97	1	3
ANATOMY AND PHYSIOLOGY	60	0	0	60	98	1	2
ANATOMY + PHYSIOLOGY	40	0	0	40	99	1	3
ANATOMY + PHYSIOLOGY	40	0	0	40	102	1	3
63 SECRETARIAL PRACTICE AND PROCEDURES							
SECRETARIAL PRACTICE	0	0	0	0	58	1	3
SECRETARIAL PRACTICE	0	0	60	60	96	1	3
SECRETARIAL PRACTICE	0	0	120	120	97	1	3
SECRETARIAL PRACTICE	0	0	60	60	98	1	2
SECRETARIAL PRACTICE	0	0	80	80	98	1	3
SECRETARIAL PRACTICE	0	0	36	36	99	1	3
SECRETARIAL PRACTICE	0	0	36	36	99	1	3
SECRETARIAL PRACTICE	0	0	36	36	99	1	3
SECRETARIAL PRACTICE	0	0	36	36	99	1	3
SECRETARIAL PRACTICE	0	0	184	184	102	1	3
64 TERMINOLOGY, MEDICAL							
TERMINOLOGY AND MEDICAL	30	0	0	30	58	1	3
MEDICAL TERMINOLOGY	30	0	0	30	96	1	3
MEDICAL TERMINOLOGY	45	0	0	45	97	1	3
MEDICAL TERMINOLOGY	60	0	0	60	98	1	2
MEDICAL TERMINOLOGY	25	0	0	25	99	1	3
MEDICAL TERMINOLOGY	72	0	0	72	102	1	3
114 ORG. AND ADMIN., MED. RECORDS LIBR.							
DATA MANAGEMENT AND REPORTS	0	0	0	0	58	1	3
DISCHARGE PROCEDURES	0	0	0	0	58	1	3
OFFICE ADMITTING	0	0	0	0	58	1	3
ORIENTATION	0	0	0	0	58	1	3
115 DIRECTED PRACTICE, MED. RECORDS LIBR.							
DIRECTED PRACTICE	0	0	20	20	97	1	3
DIRECTED PRACTICE	0	0	60	60	98	1	2
DIRECTED PRACTICE	0	0	60	60	98	1	2
DIRECTED PRACTICE	0	0	240	240	98	1	2





RADIOISOTOPE TECHNICIAN

	LECT	LAB	CLIN	CAREER NUMBER TOTL	INST	CLAS	LEVEL
0 UNCOMMON							
REVIEW	2	0	0	2	107	1	1
REVIEW	2	0	0	2	107	1	1
REVIEW	2	0	0	2	107	1	1
REVIEW	2	0	0	2	107	1	1
REVIEW	2	0	0	2	107	1	1
4 ANATOMY AND PHYSIOLOGY							
ANATOMY AND PHYSIOLOGY	80	0	0	80	5	1	3
ANATOMY AND PHYSIOLOGY	30	0	0	30	57	1	3
ANATOMY + PHYSIOLOGY	30	0	0	30	106	1	3
29 PHYSICS							
ELECTRICITY BASIC	35	0	0	35	5	1	3
64 TERMINOLOGY, MEDICAL							
TERMINOLOGY AND MEDICAL	20	0	0	20	5	1	3
68 ADMINISTRATION, DEPARTMENTAL							
OFFICE PROCEDURES-RADIOISOTOPE RECORDS	5	0	0	5	5	1	3
RECORDS ADMIN. PROCEDURES	5	0	150	155	58	1	3
RECORDS CODING FILING	3	0	150	153	58	1	3
RECORDS-ADMIN-CODING-FILING, PROCEDURES	5	0	0	5	108	1	3
RECORDS, ADMIN-FILING + CODING	3	0	0	3	108	1	3
74 RADIATION SAFETY							
PROTECTION-HANDLING RADIOACTIVE SUBSTAN	20	0	0	20	5	1	3
PROTECTION-SHIELDING	10	0	225	235	58	1	3
PROTECT-HAND-SHIELD OF RADIOACTIVE SUBS	0	0	654	654	106	1	3
PROTECT-HANDLING RADIOACTIVE SUBSTANCES	2	0	0	2	107	1	1
PROTECT HAND SHIELD OF RADIOACTIVE SUBS	10	0	0	10	108	1	3
81 RADIATION PHYSICS							
ATOMIC STRUCTURE-RADIOACTIVITY	40	0	0	40	5	1	3
PHYSICS AND BASIC RADIATION	35	0	0	35	57	1	3
PHYSICS AND BASIC RADIATION	20	0	150	170	58	1	3
BASIC PHYSICS + RADIATION	0	0	654	654	106	1	3
PHYSICS + BASIC RADIATION	20	0	0	20	108	1	3



RADIOISOTOPE TECHNICIAN, CONTINUED

121 INSTRUMENTATION, RADIOISOTOPE TECH.

LECT	LAB	CLIN	GAREER NUMBER	CLAS	LEVEL
			TOTL INST		
40	0	0	40	1	3
40	0	225	265	1	3
15	15	0	30	1	3
2	0	0	2	1	1
2	0	0	2	1	1
2	0	0	2	1	1
2	0	0	2	1	1
15	30	0	45	1	3

122 RADIOBIOLOGY, RADIOISOTOPE TECH.

RADIOBIOLOGY	20	0	20	1	3
RADIATION PROTECTION AND RADIOBIOLOGY	10	0	10	1	3
INTERACTION OF RADIATION PHYSIOLOGICAL S	10	150	160	1	3
RADIOBIOLOGY	0	654	654	1	3
RADIOBIOLOGY	0	0	2	1	1
RADIOBIOLOGY	0	0	2	1	1
RADIOBIOLOGY	2	0	2	1	1
RADIOBIOLOGY	2	0	2	1	1
RADIOBIOLOGY	10	0	107	1	3
RADIOBIOLOGY	10	0	107	1	3

123 MATHEMATICS, RADIOLOGICAL

MATHEMATICS	10	0	10	1	3
MATH RADIOLOGICAL	10	0	10	1	3
MATH RADIOLOGICAL	30	225	255	1	3
RADIATION UNITS	5	75	80	1	3
MATHEMATICS-RADIOLOGICAL	30	0	30	1	3
MATHEMATICS, RADIOLOGICAL	30	0	30	1	3
MATH. RADIOLOGICAL	5	0	5	1	3

("Clas"), Table 7, opposite these two course titles the "1" indicates that the training institution was one offering post-high school work. In column 8, ("Levl"), Table 7, the "3" indicates that this training institution is a hospital. This information may be found by referring again to Table 4 for code number and level designation for each of the 110 training institutions from which the 126 paramedical educational programs were obtained.

An inspection of the listings of the 22 separate courses under the subject classification of "Nursing Fundamentals" gives other interesting information. For example, these 22 course titles are all from 12 different training institutions. Only two of the 12 different training institutions (numbers 23 and 42) require laboratory experience in Nursing Fundamentals. Only four of these training institutions (numbers 1, 9, 40, and 61) required hours in clinical practice in this subject classification. The requirement in clinical practice ranges from 20 to 360 clock hours in these four schools. The total clock hour requirement in Nursing Fundamentals for these 12 training institutions ranges from 18 hours in training institution #29 to 465 hours in training institution #58.

After a consideration of the example above, it is apparent that Table 7, the computer print-out listing, has valuable information which can be used for comparative purposes concerning the subject classifications and separate course titles, clock hours devoted to lecture, laboratory, and clinical practice, as well as the minimum and maximum number of clock hours required in a particular paramedical career program by the various training institutions. A cross reference can be made with Table 4 for the location of other data concerning the training institutions which is also enlightening.

**The Number of Programs Analyzed, Course Titles Classified and Subject Classifications Resulting in Each Paramedical Career Studied**

Table 8 is designed to give the reader a quick summarization as well as a means of making numerical comparisons with the data from the computer output presented in Table 7. Table 8 shows the 26 paramedical careers listed in code number order and the total number of programs analyzed in each. Column 4, Table 8 shows the number of separate course titles analyzed and assigned to subject classifications numbers 1-123. Column 5, Table 8, presents the number of separate course titles which were classified as follow:

0 Uncommon Courses  
124 General Education  
125 Electives

Column 6, Table 8, reveals the total number of course titles classified in each paramedical career. Column 7, Table 8, shows the number of different subject classifications to which the total course titles were assigned. For example, consider career #1, three-year registered nurse. Table 8 in column 3 shows that the curricular analysts for this career examined 18 programs from different training institutions and found 425 different course titles, (401 technical plus 24 classified as Uncommon, General Education, or Electives), which they assigned to 27 different general subject classifications. Curricular analysts for all careers examined 2,278 technical courses plus 335 Uncommon, General Education, and Elective courses which were assigned to 126 subject classifications.

**An Analysis of the Commonality of the  
78 Subject Classifications Found to be Required  
in Two or More of the 20 Paramedical Careers Studied**

Table 9 is a concise computer print-out summary of the commonality of the subject classifications to the 20 paramedical careers.

TABLE 8

THE NUMBER OF PROGRAMS ANALYZED, COURSE TITLES  
CLASSIFIED, AND SUBJECT CLASSIFICATIONS  
RESULTING IN EACH PARAMEDICAL CAREER

Code No.	Paramedical Career	Programs Analyzed	Number of Course Titles Assigned Subject Classifications			Number of Subject Classifica- tions in each Parame- dical Career
			#1-123	#0,124-5	Total	
1	3-year R.N.	18	401	24	425	27
2	2-year R.N.	11	156	79	235	21
3	L.P.N.	9	119	3	122	20
4	Nurse Aide	2	18	2	20	7
5	Dental Assistant	2	26	7	33	21
6	Medical Technologist	12	163	12	175	32
7	Medical Secretary	9	136	24	160	29
8	Radiologic Technologist	3	163	49	212	32
9	Dental Hygienist	4	99	18	117	30
10	Dental Technician	1	7	4	11	3
11	Physical Therapist	9	225	18	243	32
12	Physical Therapist Ass't.	1	16	2	18	4
13	Occupational Therapist	7	168	6	174	27
14	Occupational Therapy Ass't.	2	21	1	22	9
15	Inhalation Therapist	8	138	12	150	27
16	Medical Assistant	4	43	8	51	24
17	Laboratory Assistant	4	45	2	47	18
18	Medical Record Librarian	15	190	59	249	25
19	Medical Record Technician	2	66	0	66	8
20	Radioisotope Technician	<u>3</u>	<u>77</u>	<u>5</u>	<u>82</u>	13
	TOTALS	126	2278	335	2613	

Although identification of code numbers for the 20 paramedical careers and other information may be found in Table 5, they are listed below for quick reference in reading and interpreting Table 9.

1	Three-Year Registered Nurse	11	Physical Therapist
2	Two-Year Registered Nurse	12	Physical Therapist Assistant
3	Licensed Practical Nurse	13	Occupational Therapist
4	Nurse Aide	14	Occupational Therapy Assistant
5	Dental Assistant	15	Inhalation Therapist
6	Medical Technologist	16	Medical Assistant
7	Medical Secretary	17	Laboratory Assistant
8	Radiologic Technologist	18	Medical Record Librarian
9	Dental Hygienist	19	Medical Record Technician
10	Dental Technician	20	Radioisotope Technician

In column 1, Table 9, the general subject classifications are listed in code number order, (See Table 6), except that the Subject Classification "0", Uncommon Courses, is listed last. As indicated before, Subject Classifications "0", "124", and "125" are described as Uncommon Courses, General Education Courses, and Elective Courses respectively. Table 9 reveals that, for example, the subject classification "Nursing Fundamentals" is required in four paramedical careers: three-year registered nurse, two-year registered nurse, licensed practical nurse, and nurse aide. Table 9 further reveals that the subject classification "General Education" is required in 16 of the 20 paramedical careers. The subject classification, "Anatomy and Physiology", is required in 15 of the paramedical occupations. The 11 most frequent commonalities are as follow:

<u>Subject Classification</u>	<u>Number of Paramedical Careers to Which Common</u>
General Education	16
Anatomy and Physiology	15
Microbiology	14
Uncommon Courses	14
Anatomy	12
Ethics, Professional	12
Psychology, General	12
Electives	12
Terminology, Medical	11
Mathematics	9
Chemistry, General	9



TABLE 9  
 AN ANALYSIS OF THE COMMONALITY OF THE 126 SUBJECT CLASSIFICATIONS FOUND  
 TO BE REQUIRED IN TWO OR MORE OF THE 20 PARAMEDICAL CAREERS

SUBJECT CLASSIFICATIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NURSING, FUNDAMENTALS	*	*	*	*																
NURSING TRENDS	*	*																		
ANATOMY	*	*				*		*	*	*	*	*	*	*	*	*	*	*	*	*
ANATOMY AND PHYSIOLOGY	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
CHEMISTRY, GENERAL	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
HUMAN GROWTH AND DEVELOPMENT	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
NURSING	*	*	*																	
NURSING, CLINICAL CONFERENCE	*	*	*										*	*	*	*	*	*	*	*
CLINICAL PRACTICE, NURSING	*	*	*										*	*	*	*	*	*	*	*
PHYSIOLOGY	*	*	*			*			*	*	*	*	*	*	*	*	*	*	*	*
NURSING, MEDICAL SURGICAL	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*	*
VOCATIONAL RELATIONSHIPS	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
ETHICS, PROFESSIONAL	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
NUTRITION	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
MATHEMATICS	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
PSYCHOLOGY, GENERAL	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
HEALTH, PERSONAL AND COMMUNITY	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
HUMAN RELATIONSHIPS	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
SOCIOLOGY	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*
MICROBIOLOGY	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*

Table 9 cont.

SUBJECTS

	CAREERS																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PEDIATRICS	*	*	*																	
NURSING, PSYCHIATRIC	*	*	*							*	*	*	*	*	*	*	*	*	*	*
OBSTETRICS	*	*	*							*	*	*	*	*	*	*	*	*	*	*
PHARMACOLOGY	*	*	*						*	*	*	*	*	*	*	*	*	*	*	*
THEOLOGY	*	*	*																	
DIETETICS	*	*	*																	
FIRST AID	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
BOTANY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
PHYSICS	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
ZOOLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
NURSING, GERIATRICS	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
NURSING, PROCEDURES	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
OFFICE TRAINING AND MANAGEMENT	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
PSYCHOLOGY, APPLIED	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
TERMINOLOGY, DENTAL	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
DENTAL ASSISTING	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
CHEMISTRY, QUANTITATIVE	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
CHEMISTRY, QUALITATIVE	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
CHEMISTRY, ORGANIC	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
CHEMISTRY, INORGANIC	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
BIOCHEMISTRY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
CLINICAL LAB. PROBLEMS, MED. TECH.	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
HISTOLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
IMMUNOLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
LAB. TECHNIQUES, MED. TECH.	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
URINALYSIS	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
BLOOD BANK	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
CYTOLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
ELECTROCARDIOGRAPH (EKG)	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
HEMATOLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
MICRO-TECHNIQUE, MED. TECH.	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
PARASITOLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
PATHOLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
SEROLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
VIROLOGY	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
ACCOUNTING	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
ANATOMY-PHYSICS	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
BUSINESS CORRESPONDENCE	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
SHORTHAND, GENERAL AND MEDICAL	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
FILING	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 9 cont.

SUBJECTS

CAREERS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

OFFICE MACHINES \*  
 OFFICE PRACTICE \*  
 SECRETARIAL PRACTICE AND PROCEDURES \* \* \* \* \*  
 TERMINOLOGY, MEDICAL \* \* \* \* \*  
 TYPING \* \* \* \* \*  
 ECONOMICS \* \* \* \* \*  
 MEDICAL SCIENCE CONFERENCES \*  
 ADMINISTRATION, DEPARTMENTAL \* \* \* \* \*  
 FILM CRITIQUE \* \* \* \* \*  
 DARKROOM CHEMISTRY AND TECHNIQUE \* \* \* \* \*  
 DISEASES, MEDICAL SURGICAL \* \* \* \* \*  
 EQUIPMENT, RADIOLOGY \* \* \* \* \*  
 RADIATION THERAPY \* \* \* \* \*  
 RADIATION SAFETY \* \* \* \* \*  
 RADIOGRAPHIC EXPOSURE TECHNIQUES \* \* \* \* \*  
 RADIOGRAPHIC POSITIONING \* \* \* \* \*  
 RADIOGRAPHIC PROCEDURES \* \* \* \* \*  
 RADIOGRAPHY, INTRA-ORAL \* \* \* \* \*  
 RADIOGRAPHY, PEDIATRICS \* \* \* \* \*  
 RADIOLOGY, NURSING PROCEDURES \* \* \* \* \*  
 RADIATION PHYSICS \* \* \* \* \*  
 RADIATION THERAPY \* \* \* \* \*  
 RADIOGRAPHIC ISOTOPES \* \* \* \* \*  
 ANESTHESIA \* \* \* \* \*  
 DENTAL ANATOMY \* \* \* \* \*  
 CLINICAL PRACTICE, DENTAL \* \* \* \* \*  
 DENTAL HEALTH \* \* \* \* \*  
 ORIENTAL MEDICINE, DENTAL \* \* \* \* \*  
 DENTAL MATERIALS \* \* \* \* \*  
 PHYSICAL AGENTS, PHYSICAL THERAPY \* \* \* \* \*  
 NEUROLOGY \* \* \* \* \*  
 CLINICAL ASSIGNMENT, PHYSICAL THERAPY \* \* \* \* \*  
 ORG. AND ADMIN., PHYSICAL THERAPY \* \* \* \* \*  
 ORIENTAL MEDICINE, PHYSICAL THERAPY \* \* \* \* \*  
 PHYSICAL THERAPY \* \* \* \* \*  
 THERAPEUTIC EXERCISE \* \* \* \* \*  
 ORIENTAL MEDICINE, OCCUPATIONAL THERAPY \* \* \* \* \*  
 HANDICRAFTS \* \* \* \* \*  
 OCCUPATIONAL THERAPY \* \* \* \* \*  
 PRINCIPLES AND PRACTICES, OCCUP. THERAPY \* \* \* \* \*



Table 9 reveals that 48 of the 126 subject classifications listed were required in only one of the 20 paramedical fields, while 78 subject classifications (including the three subject classifications "0", "124", and "125" were required in two or more of the 20 paramedical careers.

**The Total Number of Subject Classifications, Course Titles, and the Commonality of Subject Classification in Each of the 20 Paramedical Careers Studied**

Table 10 is a synthesis of data taken from Tables 6, 7, 8, and 9. A reference to the four previous tables is desirable for best interpretation of data in Table 10. From this Table it can be seen that of the 126 subject classifications the following information obtains:

48	subject classifications relate to only one paramedical career,	
30	subject classifications are common to	2 paramedical careers,
11	subject classifications are common to	3 paramedical careers,
13	subject classifications are common to	4 paramedical careers,
2	subject classifications are common to	5 paramedical careers,
5	subject classifications are common to	6 paramedical careers,
3	subject classifications are common to	7 paramedical careers,
3	subject classifications are common to	8 paramedical careers,
2	subject classifications are common to	9 paramedical careers,
1	subject classification	common to 11 paramedical careers,
4	subject classifications are common to	12 paramedical careers,
2	subject classifications are common to	14 paramedical careers,
1	subject classification	common to 15 paramedical careers,
1	subject classification	common to 16 paramedical careers,

---

126 total subject classifications assigned to all paramedical careers.

**The Cross Reference Chart  
Showing Frequency of Commonality of 123  
Subject Classifications Among the 20 Paramedical Careers Studied**

Table 11 is a summary abstraction of the information revealed in Tables 7 and 9. Table 11 excludes from consideration the subject classifications of Uncommon Courses, #0, General Education, #124, and Electives, #125. This cross reference chart shows the commonality of subject classifications between and among the 20 paramedical careers.

TABLE 10

THE TOTAL NUMBER OF SUBJECT CLASSIFICATIONS, COURSE TITLES AND THE COMMONALITY OF SUBJECT CLASSIFICATIONS IN EACH OF THE 20 PARAMEDICAL CAREERS

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																				Total No. Courses	No. FMC's to which subject classifications is common
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
1	Nursing Fundamen.	22	17	13	2																	54	4
2	Nursing Trends	19	3																			22	2
3	Anatomy	8	3																			47	12
4	Anatomy & Physio.	25	10	6																		97	15
5	Chemistry, Gen.	6	6																			50	9
6	Human Gro.& Devl.	6	6	4																		23	6
7	Nursing	46	2																			48	2
8	Nursing, Clin. Conf	10																				10	1
9	Nursing, Clin. Prac.	13																				14	2
10	Physiology	5	4																			45	8
11	Nursing, Med. Surg.	68	31	21	2																	122	4
12	Voca. Relationships	12		11																		13	3
13	Ethics, Profess.	14		8																		45	12
14	Nutrition	14		8																		33	7
15	Mathematics	20		11																		33	9
16	Psychology, Gen.	20		11																		63	12
17	Health, Per. & Comm.	2		7																		21	8
18	Human Relationship	6		6																		12	5
19	Sociology	35		10																		68	7
20	Microbiology	15		12																		78	14
21	Pediatrics	13		8																		38	6
22	Nursing Psychia.	17		10																		49	6
23	Obstetrics	14		12																		38	4
24	Pharmacology	7		5																		20	4
25	Theology	15		9																		34	4
26	Dietetics	1		2																		9	1
27	First Aid	1		2																		11	8

TABLE 10 cont.

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																		Total No. Courses	No. P,C's to which subject classifications is common	
		Number of Programs Analyzed in each Career																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			19
28	Botany																				10	1
29	Physics	1	1							2					6						1	27
30	Zoology		1												1				2			9
31	Nursing, Geriatrics	1		3	2																	6
32	Nursing, Procedures				10																	10
33	Off. Train. & Mang.					2																2
34	Psychology, App.				3											1						6
35	Terminology				1																	1
36	Dental Assisting					2																4
37	Chem. Quant.								2													4
38	Chem. Qualit.					10																10
39	Chem. Organic																					4
40	Chem. Inorganic																					10
41	Biochemistry					1									1							2
42	Clin. Lab. Prob., Med. Tecno					8																9
43	Histology					3																3
44	Immunology					4																4
45	Lab. Techns. Med Tecno					6																10
46	Urinalysis					3																2
47	Blood Bank					3																3
48	Cytology					3																3
49	EKG					2																2
50	Hematology					2																2
51	Micro-tecno, Med Tecno					4																4
52	Parasitology					3																3
53	Pathology					7																7
54	Serology					2																2
55	Virology					5																5
56	Accounting					3																3
57	Anatomy-Physics																					7
58	Business Corresp.																					4
																						6





TABLE 10 cont.

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																		Total No. Courses	No. FMC's to which subject classifi- cations is common		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			19	20
90	Phys. Agents, Phys. Therapy											2	2									29	3
91	Neurology										10		7			2						19	3
92	Clin. Assign. Phys. Therapy									19	1											20	2
93	Org'n & Adm., Phys. Therapy									12												12	1
94	Orient., Phys. Therapy									5	1											6	2
95	Physical Therapy									30	3											33	2
96	Therapeutic Exercise									36	2			9	3							50	4
97	Orient., Occup. Therapy											2	5	4								9	2
98	Handicrafts												38									38	1
99	Occupational Therapy												14									14	1
100	Prim. & Prac. of Occup. Ther.												21	4								25	2
101	Kinesiology									5			8									13	2
102	Org'n & Adm. Occup. Ther.												4									4	1
103	Physical Disabilities												6									6	1
104	Clin. Assign., Occup. Ther.												11	4								15	2
105	Tests & Measur., Physical									6			2									10	3
106	Orgn. & Adm. Inhal. Ther.													2								2	1
107	Equip. Oper., Inhal. Ther.														2							2	1
108	Clinical Practice														25							25	1
109	Inhalation Therapy														14							14	1
110	Orient., Inhal. Ther.														26							26	1
111	Orient., Med. Ass't.														3							3	1
112	Basal Metab. Rate (BMR)																					1	1
113	Lab Ass't Responsibilities																	4				4	1
114	Org'n & Adm. Med Rec Libr'n																	5				5	1
115	Dir. Prac., Med Rec Libr'n																		32	4		36	2
116	Med Rec Science Libr'n																		17	4		21	2
117	Med Rec Science, Fundmts.																		40	32	72	72	2
118	Med Rec Science Legal Aspects																		23			23	1
119	Clin. Pract. Radioisotope Tech																		11	4		15	2
120	Diag. Proced. Radioiso. Tech																				5	5	1
																					7	7	1

TABLE 10 cont.

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																				Total No. Courses	No. PMC's to which subject classifi- cations is common
		Number of Programs Analyzed in each Career																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
18	11	9	2	2	2	12	9	2	4	1	9	1	7	2	8	4	4	15	2	3			
121	Instrumentation, Radioiso. Tech										8	1	2							8	8	1	
122	Radiobiology, Radioiso. Tech										10									10	10	1	
123	Math., Radiological										7									7	7	1	
124)		22	75	3	2	5	7	21	38	14	8	1	2	9	5	1	1	47			360	16	
125)		2	4		1	3	2	11	3	3	3	1	1	1	1	1	10				42	12	
0	Uncommon				1	2	1		1	4	7	1	3	1	2	2	1	2	0	5	33		
TOTAL COURSE TITLES		425	235	122	20	33	175	160	212	117	11	243	18	174	22	150	52	47	249	56	82	2613	
SUBJECT CLASSIFI- CATIONS 1-123		401	156	119	18	26	163	136	163	99	7225	16	168	21	138	44	45	190	66	77	2277		



TABLE 11

CROSS REFERENCE CHART SHOWING FREQUENCY OF COMMONALITY  
OF 123\* SUBJECT CLASSIFICATIONS AMONG THE 20  
PARAMEDICAL CAREERS STUDIED

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
3 Yr. R.N.		* 19	16	5	5	6	8	10	14	1	11	5	11	2	12	8	4	9	2	2	
2 Yr. R.N.		19	* 12	3	3	4	9	10	1	9	3	8	1	11	5	3	8	2	2		
L.P.N.		16	12	* 4	6	4	8	12	0	8	4	6	1	9	6	4	6	1	1		
N.A.		5	3	4	* 1	0	1	1	1	0	0	0	0	1	0	2	0	0	0	0	
D.A.		5	3	6	1	* 2	4	5	13	1	5	3	2	0	5	6	2	4	0	0	
MED. TECHNO.		6	7	3	0	2	* 6	8	9	1	7	2	5	0	10	7	11	7	2	3	
MED. SEC.		8	4	4	1	4	6	* 8	7	0	6	6	5	2	6	14	9	12	3	3	
RAD. TECHNO.		10	9	8	1	5	8	8	* 10	3	8	5	6	1	11	8	6	9	3	6	
D.H.		14	10	12	1	13	9	7	10	* 2	11	5	8	0	10	7	6	10	1	1	
D.T.		1	1	0	0	1	1	0	3	2	* 2	1	1	1	0	1	0	0	1	1	
P.T.		11	9	8	0	5	7	6	8	11	2	* 7	13	3	11	3	5	7	1	1	
P.T.A.		5	3	4	0	3	2	6	5	5	1	7	* 6	2	5	6	5	4	3	2	
O.T.		11	8	6	0	2	5	5	6	8	1	13	6	* 6	9	4	3	8	3	2	
O.T.A.		2	1	1	1	0	0	2	1	0	0	3	2	6	* 1	2	1	1	1	1	
I.T.		12	11	9	0	5	10	6	11	10	1	11	5	9	1	* 4	6	10	3	4	
MED. ASS'T.		8	5	6	2	6	7	14	8	7	0	3	6	4	2	4	* 10	7	3	3	
LAB. ASS'T.		4	3	4	0	2	11	9	6	6	0	5	4	3	1	6	10	* 6	3	2	
M.R. LIBR.		9	8	6	0	4	7	12	9	10	1	7	4	8	1	10	7	6	*	3	
M.R. TECH.		2	2	1	0	0	2	3	3	1	1	1	3	3	1	3	3	3	3	*	
RAD. TECH.		2	2	1	0	0	3	3	6	1	0	1	2	2	1	4	3	2	2	2	*

\* Subject classifications of general education, electives and subjects uncommon are excluded.

For example, career #1, three-year registered nurse, has 19 subject classifications in common with career #2, two-year registered nurse; 16 subject classifications in common with career #3, licensed practical nurse; 10 subject classifications in common with career #8, radiologic technologist; 14 subject classifications in common with career #9, dental hygienist; and only one subject classification in common with the dental technician. The occurrence of commonality in subject classifications between two different paramedical careers was frequently observed. The following information presents the 24 occasions of greatest occurrence of commonality which existed between two different paramedical careers:

Career #	1	and Career #	2	had	19	subject classifications in common.
"	"	1	"	"	3	" 16 " " " "
"	"	1	"	"	9	" 14 " " " "
"	"	7	"	"	16	" 14 " " " "
"	"	5	"	"	9	" 14 " " " "
"	"	11	"	"	13	" 13 " " " "
"	"	2	"	"	3	" 12 " " " "
"	"	3	"	"	9	" 12 " " " "
"	"	7	"	"	18	" 12 " " " "
"	"	1	"	"	11	" 11 " " " "
"	"	9	"	"	11	" 11 " " " "
"	"	1	"	"	13	" 11 " " " "
"	"	2	"	"	15	" 11 " " " "
"	"	8	"	"	15	" 11 " " " "
"	"	11	"	"	15	" 11 " " " "
"	"	7	"	"	17	" 11 " " " "
"	"	1	"	"	8	" 10 " " " "
"	"	2	"	"	9	" 10 " " " "
"	"	8	"	"	9	" 10 " " " "
"	"	6	"	"	15	" 10 " " " "
"	"	9	"	"	15	" 10 " " " "
"	"	16	"	"	17	" 10 " " " "
"	"	9	"	"	18	" 10 " " " "
"	"	15	"	"	18	" 10 " " " "

Table 11 also shows the absence of commonality in subject classifications between and among the 20 paramedical fields.

**The Minimum and the Maximum Number of Combined Lecture,  
and Clinical Practice Experience (Expressed in Total Clock Hours)  
Required in Each of the 78 Classifications Which Were Common To Two  
Or More of the 20 Paramedical Careers Studied**

Table 12 is a general summary table showing the least number and the greatest number (expressed in total clock hours) of combined lecture, laboratory and clinical practice experience required in the 78 subject classifications found common in two or more of the 20 paramedical programs studied. Column 1, Table 12, shows the code number in numerical sequence for each of the 78 subject classifications which are common to two or more of the 20 paramedical careers. Column 2, Table 12, presents the 78 general subject classifications by name and lists for each classification the paramedical careers to which it is common. The remaining columns reveal the minimum and maximum number (expressed in total clock hours) required in combined lecture, laboratory, and clinical practice experiences for each (numbered 1 through 20) paramedical career for each of the 78 subject classifications. Consider the subject classifications #1, Nursing Fundamentals. This classification is common to careers #1, 2, 3, and 4 as identified earlier. Note that the total clock-hour requirements for career #1, three-year registered nurse, range from 10 to 465 hours for the subject classification, Nursing Fundamentals, as compared to 3 to 40 hours for career #4, Nurse Aide.

TABLE 12

THE MINIMUM AND THE MAXIMUM NUMBER OF COMBINED LECTURE, LABORATORY, AND CLINICAL PRACTICE EXPERIENCES (EXPRESSED IN TOTAL CLOCK HOURS) REQUIRED IN EACH OF THE 78 SUBJECT CLASSIFICATIONS WHICH ARE COMMON TO TWO OR MORE OF THE 20 PARAMEDICAL CAREERS STUDIED

CAREER TITLE	3 YR 2 YR		DENT MED RAD DENT DENT		MED MED RAD DENT DENT		MED IAB M.R. M.R. RAD		ASST TECH SEC TECN HY TECH PT PTA OT OTA IT ASST ASST LIBR TECH TECH		TOTAL RANGE									
	1	2	3	4	5	6	7	8	9	10		11	12	13	14	15	16	17	18	19
1 Nursing, Fundamentals	10	81	224	3																3-558
2 Nursing, Trends	15	16																		15-72
3 Anatomy	57	80			72	624	60	510	120	75	90	12	60	40						12-1316
4 Anatomy and Physiology	292	96			210	624	60	510	1316	75	210	200	60	40						30-300
5 Chemistry, General	38	44	32		64	30	90	90		75	135	40	80	180	90	96	30			30-300
6 Human Growth and Development	240	256	102		64	130	294	164		75	300	224	120	180	240	102	80			6-1440
7 Nursing	33	66			49	90	60	60		6	60	120	90							15-90
9 Nursing, Clinical Practice	80	198			1120	150	180			200	60	1440	90							20-5871
10 Physiology	32	33	18		48	48			15											15-90
	54	55	64		90	90			45											15-90
	20	176																		20-5871
	5871	192																		20-5871
	120																			3-3474
	3474																			3-3474
	60	33			48				*	32	75	12	60							12-750
	192	144			165				*	750	150	61	60							12-750

\*This subject classification included as a part of another subject classification in this field.

TABLE 12 Continued

CAREER TITLE	CAREER NUMBER	3 YR	2 YR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	TOTAL RANGE
		R.N., R.H.	LPN NA	ASST TECH	DENT MED	SEC	TECN	TECHN	HY	DENT	DENT	TECH	PTA	OT	ITA	IT	ASST	ASST	LIBR	TECH	TECH	TECH	TECH	
11 Nursing Medical Surgical		320	318	400	158																			158-3768
12 Vocational Relationships		3768	1188	1034	810	24	84	7				*	*											7-84
13 Ethics, Professional		15	16	16	12	24	10	15	8	30	5	10	75	30	5-310									
14 Nutrition		64	16	16	12	60	310	32	78	30	87	10	75	30	5-76				*	*				
15 Mathematics		12	32	16	5	30		30				30												
		72	48	75	5	60		60				32												
16 Psychology, General		30	48	16	12	36	24	45	75	60	60	75	75	45	8-160				8	180	45			
		160	55	16	48	128	75	90	75	60	60	75	45	6-345				17	180	180				
17 Health, Personal and Community		36	22	18	30			30	32	4	4	32							32					
		40	22	54	30			30	32	15	15	32							32					
18 Human Relations		12			4	45													8	96				
		1322			4	52													8	96				
19 Sociology		15	33	10	45	45	75	45	75	45	45	45	45	45	10-585									
		144	55	50	75	120																		
20 Microbiology		36	55	16	30	96	60	90	75	6	6	15	120	15	5-880				5	40	120	15		
		256	128	16	30	880	60	90	75	6	6	15	120	120					128	40	660	120		
21 Pediatrics		112	112	156	8	45	75	45	21	8	8	45	75	8-91.6										
		916	240	270	8	75			63	8	8	75												

TABLE 12 Continued

CAREER TITLE	CAREER NUMBER	3 YR 2 YR		DENT MED RAD DENT DENT		DENT MED SEC TECN HY TECH		PTA OT OT		ASST ASST LIBR TECH TECH		TOTAL RANGE											
		1	2	3	4	5	6	7	8	9	10		11	12	13	14	15	16	17	18	19	20	
22 Nursing, Psychiatric	120	144	92																			12-460	
	460	240	166																				
23 Obstetrics	109	128	120																				21-816
	816	240	448																				
24 Pharmacology	18		32																				9-231
	64		231																				
25 Theology	31																						31-525
	120																						
27 First Aid	18		10																				10-45
	18		10																				
29 Physics	24	55																					10-193
	24	55																					
30 Zoology																							45-180
31 Nursing, Geriatrics	75		14	120																			14-158
	75		20	158																			
34 Psychology, Applied																							30-90
36 Dental Assisting																							32-90
40 Chemistry, Inorganic																							80-96
																							140



TABLE 12 Continued

CAREER TITLE	CAREER NUMBER	3 YR		2 YR		DENT MED		MED RAD		DENT DENT		PTA		OT		ITA		ASST		LIBR		TECH		TECH		TOTAL RANGE
		R.N.	R.N.	LPN	NA	ASST	TECN	SEC	TECN	BY	TECH	TECH	HY	TECH	DENT	DENT	PT	PTA	OT	ITA	ASST	ASST	LIBR	LIBR	TECH	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
41 Biochemistry							36 504			*																36-504
43 Histology							80 210			45 80		48 68							20 20							20-210
45 Lab Techniques							36 75	45 228									228 228	240 240								36-240
46 Urinalysis							186 320	60 60									60 60	160 579								60-579
47 Blood Bank							187 320												40 660							40-660
49 EKG							40 40										8 8	20 20								8-40
50 Hematology							48 960	120 120									120 120	48 900								48-960
53 Pathology							45 45	204 204						15 15			12 60									12-204
54 Serology							160 320												471 471							160-471
56 Accounting								24 105										16 110								16-110
60 Filing								50 75																		50-75
																										141

TABLE 12 Continued

CAREER TITLE	3 YR 2 YR		DENT MED		MED RAD		DENT DENT		DENT DENT		MED		LIB		M.R.		M.R.		TOTAL RANGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19
61 Office Machines						30												135		30-144
						75												144		
62 Office Practice						15					45					78	60			15-316
						316					45					216	60			
63 Secretarial Practice and Procedures						72										4			60	4-350
						350										350			184	
64 Terminology						75	24				30	45	2	6	144	180	180	30	25	2-180
						145	105				30	45	2	6	144	180	180	64	72	
65 Typing					90													45		45-330
					90													45		
66 Economics						45												45		45-45
						45												45		
68 Administration, Departmental																22				5-600
																22				306
74 Radiation Safety																				2-654
																				654
78 Radiography, Intra-Oral					90														4	4-466
					90														4	
81 Radiation Physics						12	30													12-654
						12	162													654
82 Radiation Therapy																				15-338
																338				142
																338				



TABLE 12 Continued

CAREER TITLE	CAREER NUMBER	3 YR 2 YR		DENT MED RAD		DENT DENT		DENT DENT		DENT DENT		DENT DENT		DENT DENT		DENT DENT		DENT DENT		TOTAL RANGE		
		R.N.	R.N.	NA	ASST. TECH	SEC	TECN	HY	TECH	PT	PTA	OT	OTA	IT	ASST	ASST	LIBR	TECH	TECH			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
95 Physical Therapy												30	195								30-285	
												285	195									
96 Therapeutic Exercise												30	120	15	223						15-1330	
												1330	120	225	223							
97 Orientation, Occupational Therapy												30	40	60	40						30-60	
100 Prin. and Prac., Occupational Therapy												60	157	1575	157						60-1575	
101 Kinesiology												30	30								30-596	
												596	210									
104 Clinical Assignment, Occupational Therapy														480	348						348-3600	
														3600	348							
105 Tests & Measurements, Physical												45		15	16						15-121	
												121		30	16							
114 Orgn. and Adm. Med. Rec. Librn.																		60	*		60-460	
																		460	*			
115 Directed Practice, Med. Rec. Librn.														36	20						20-505	
														505	360							
116 Med. Rec. Sci., Med. Rec. Librn.														100	65						65-1623	
														1050	1623							
118 Med. Rec. Sci., Legal Aspect														30	5						5-84	
														84	20							



Table 12 reveals that there is a very wide range in the commonality, expressed in total clock hours of required training, for a given subject classification common to and required in several different paramedical fields. For example, consider the general subject classification of microbiology--among the most common--required in 14 of the 20 paramedical education programs studied. A synthesis of data from Table 12 reveals the total minimum and maximum clock hours required in the study of microbiology in 14 paramedical career programs to range as follow:

<u>Code</u>	<u>Career Requiring Microbiology</u>	<u>Range in Clock Hours</u>
1	Three-Year Registered Nurse	36 - 256
2	Two-Year Registered Nurse	55 - 128
3	Licensed Practical Nurse	16 - 16
5	Dental Assistant	30 - 30
6	Medical Technologist	96 - 880
7	Medical Secretary	60 - 60
8	X-ray Technologist	90 - 90
9	Dental Hygienist	75 - 75
11	Physical Therapist	6 - 6
13	Occupational Therapist	15 - 15
15	Inhalation Therapist	5 - 128
16	Medical Assistant	40 - 40
17	Laboratory Assistant	120 - 660
18	Medical Record Librarian	15 - 120

Similar comparisons like those above can be abstracted from the contents of Table 12 for each of the subject classifications required in two or more of the paramedical education programs studied.

## CHAPTER IV

## MAJOR FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

1. An analysis of 20 paramedical career programs revealed that 2,613 course titles could be assigned to 126 different general subject classifications.
2. Of the 126 general subject classifications, 48 were not common to any other paramedical field. These 48 general subject classifications, not common to any two paramedical career programs, in all probability would not be considered as part of a core program for training paramedical personnel.
3. Seventy-eight of the 126 general subject classifications were common to two or more paramedical fields.
4. Of the 2,613 course titles 34 were sufficiently unique to be classified under a general category subject classification "O" for uncommon. These courses titles, in all probability, would not be considered as a part of a core program for training paramedical personnel.
5. Of the 20 paramedical career training programs commonality of general subject classifications was greater among those for three-year registered nurse, two-year registered nurse, licensed practical nurse, dental hygienist, medical secretary, radiologic technologist, medical assistant, inhalation therapist, physical therapist, occupational therapist, medical record librarian and medical technologist than among the remaining eight programs.
6. Of the 20 paramedical career training programs commonality of general subject classifications was not as great among training programs for nurse aide, dental assistant, dental technician, occupational therapy assistant, medical record technician, laboratory assistant, physical therapy assistant, and radioisotope technician when compared with the commonality of general subject classifications among those listed in number 6, supra. This is to be expected inasmuch

as these careers generally require fewer skills, and a shorter time in training than most of the other careers studied.

7. Commonality of general subject classifications was greatest between:

- a. three-year nursing and two-year nursing
- b. three-year nursing and licensed practical nursing
- c. three-year nursing and dental hygienist
- d. medical secretary and medical assistant
- e. dental hygienist and dental assistant
- f. physical therapist and occupational therapist

8. Of the 78 general subject classifications common to two or more paramedical careers, general education courses ranked first; anatomy and physiology second; microbiology and uncommon courses third; anatomy, professional ethics, general psychology, and elective courses fourth; and medical terminology fifth as subject classifications commonly required.

9. The minimum and maximum total clock hours required in training for any given subject classification required in the several different paramedical fields varied extensively. Curriculum developers should study Table 12 carefully in light of the objectives of their own particular paramedical education programs before developing a "common" course which students from several paramedical education programs would study. At this point, it would appear that more information is needed before recommending the exact subject classifications and paramedical education programs which could and should be combined.

10. Standards for training, as regards courses and clock hours required, varied greatly among the 20 paramedical career programs studied. This condition was to be expected since obviously some of the paramedical careers call for greater knowledge and skill than others.

11. The educational programs for the same career in different training institutions revealed much variation relative to the particular courses required and with respect to the time spent in clock hours of either lecture, laboratory, and/or clinical practice experiences. This was particularly noticeable in the non-accredited programs.

12. The wide variation of titles utilized to describe courses among the many training institutions in the same and in different paramedical careers made comparisons difficult in some instances and nearly impossible in a number of cases. Within programs for the same paramedical career similar course content carried many different course titles, some of which were difficult to assign to one general subject classification because they partook of the nature of two or more subject classifications. Refer to Table 7 for courses classed as "Nursing Trends", for example.

13. Some paramedical education programs do not meet the standards for accreditation of any recognized national medical or paramedical accrediting agency.

14. The Council on Medical Education of the American Medical Association had established minimum essentials for accrediting training programs in seven of the 20 fields studied: medical technologists, radiologic technologists, medical record librarians, medical record technicians, occupational therapists, physical therapists, and inhalation therapists. Minimum essentials had also been established for three-year, two-year and license practical nurse programs by the nursing associations. The minimum essentials for some of these careers had been in force several years and some were under study for revision. In the above 10 paramedical career fields the educational programs tended to be more standardized and varied to a lesser degree.

15. It was apparent that many paramedical personnel were holding titles and positions in various paramedical careers without having completed an accred-



ited training program. Some personnel held positions in these careers as a result of their work experience in hospital or health service facilities over a period of time. The limited number of accredited training institutions have not been able to supply enough formally prepared paramedical personnel graduated from accredited programs to meet the demand for health services. Many small hospitals have not had the time, facilities, and personnel to conduct formal programs of training which could meet accreditation standards.

16. The amount of general education required in most paramedical programs varied considerably in each of the specific areas of general education. The variation was due in part to the subject classification given to a particular general education course given by curricular analysts. In some cases, a course which might be commonly regarded as general education was classified as a technical course by some institutions for a particular career field, while in another institution for the same career the same course was classified as a general education course.

17. It is recommended that a series of studies be conducted of the time and motion requirements of each paramedical career investigated in this research. Such a series of studies in each career would ascertain what relationships there seem to be, if any, between what a student has to learn and what he is required to practice on the job. The present study suggests there is some disagreement among paramedical educators and curriculum developers with respect to the demands in several paramedical careers as evidenced by the different requirements in clock hours of study to prepare personnel to perform certain specific functions on the job.

18. Since certain of the different paramedical education programs required identical course experiences, it seems appropriate to suggest that curriculum developers could cooperatively combine courses, classes, faculty, facili-

ties and materials to more economically and efficiently prepare personnel for responsibilities in certain paramedical fields. As indicated earlier, behavioral objectives need to be identified more precisely than now seems to be the case, before cooperative activities to combine forces will bear fruitful outcomes.

## CHAPTER V

## IMPLICATIONS FOR FURTHER RESEARCH

1. Since there seems to be a difference of opinion among curriculum developers of paramedical education programs (as evidenced by the extensive differences in clock hours required in similar courses of study and the different courses of study prescribed in the same paramedical field) the implication exists that a study need be conducted in each of the paramedical careers of the tasks performed by the practitioners. An analysis of the job requirements, when compared with the curricular experiences presently programmed for a paramedical student, might suggest the need for a different set of learning experiences to prepare them for the job. It may possibly be the job requirements are such that a subdivision of speciality responsibilities exist which make it feasible to create additional and new paramedical careers. Hypothetically, one might suggest a possible solution to the problem of a shortage of paramedical personnel is to reduce the preparation period for the job. If the job specializations can be narrowed and the preparation periods shortened as a result of curriculum revisions and the creation of new paramedical careers, then logically one might expect paramedical education programs to have fewer drop-outs and thus produce a greater supply of graduates. The opposite rationale might produce similar results, also. Perhaps the combining of paramedical education experiences might permit a program to produce individuals in the same period of time who can perform a greater number of tasks. In other words, the present study suggests the need to examine every facet of our paramedical preparation programs. Certainly the present different approaches to the same objective suggest the need to examine each approach as well as some other innovative approaches.

2. This study also suggests the need for developing accrediting agencies to help upgrade those educational programs where, at the present time, no accrediting agencies exist. Furthermore, in those paramedical career fields where accreditation standards are enforced there is reason to suggest greater efforts on their part be made to exert leadership in promoting experimentation and innovation in curriculum development.

3. There appeared to be a suggestion that General Education requirements (e.g., communications, humanities, social and behavioral sciences, science and mathematics, and physical education) were required irregularly among the various paramedical programs studied. This implies the need to determine what experiences in this area of study are necessary for each of the careers. Certainly, in metropolitan areas much of this content could be taught in a centrally located school rather than each institution expending time, talent, facilities, and finances for small classes of students. At the present time, this research reveals that much diffusion occurs in the area of General Education. Consolidation of content, faculty, facilities, and finances need be experimented with in order to bring about greater efficiency in the utilization of each. Certain technical courses fall into this same category and in these instances the implication suggests a similar consolidation, too.

4. This study directly suggests that programs which prepare paramedical personnel reflect the personal philosophies of the educators who have developed their curricula. One should expect this situation to develop and obtain, however, it is this condition which implies the need for research to determine what philosophical approach to a curriculum is more effective in terms of the tasks to be performed by the

practitioner. How much lecture, laboratory, and/or clinical practice experiences are necessary? While some of each must of necessity be required, the wide variation programmed experiences required in identical courses for identical careers suggests little research has been done to answer the previous question.

5. The nature of the design and procedures of this research proposal and the time, manpower, and finances available were not fully adequate to examine comprehensively the 2,613 different courses of this study to the extent and in the detail and breadth which was desirable. This study revealed the need to attempt research with a much larger budget and with employment of full-time curricular analysts in order to accomplish a greater depth of analysis.

ADMISSION REQUIREMENTS REPORT

Division \_\_\_\_\_

Hospital or School \_\_\_\_\_

Job \_\_\_\_\_

Reporter \_\_\_\_\_

	Demonstrations Discussions Lectures Seminars	Laboratory Experience	Directed Clinical Experience	Total Clock Hours
High School Graduation Required? Yes _____ No _____  High School Courses Required? 1. _____ 2. _____ 3. _____ 4. _____  Post High School Courses Required Before Admission to the Technical Training Pro- gram:				
1.				
2.				
3.				
4.				
5.				
6.				

Indicate clock hours under each category of experience. To change semester hours to clock hours consider one semester hour as equal to: 15 clock hours of lecture, 45 clock hours of laboratory, 75 clock hours of clinical or supervised practice.









PMRP FORM 4

FIRST PROGRESS REPORT

ADVISORY COMMITTEE RESEARCHER \_\_\_\_\_

PARAMEDICAL FIELD \_\_\_\_\_

HOSPITAL AND/OR EDUCATIONAL INSTITUTION \_\_\_\_\_

DATES COVERED BY REPORT \_\_\_\_\_

PMRP FORM 5  
RESOURCES MATERIALS

PARAMEDICAL FIELD \_\_\_\_\_ + RESEARCHER \_\_\_\_\_

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.