1978-79 Annual Report of the College of Health Related Professions

1979

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1978-79
ANNUAL REPORT
OF THE
COLLEGE OF HEALTH RELATED PROFESSIONS

November 7, 1979
Significant Events of the Year

The College of Health Related Professions became operational on July 1, 1978 with Dr. John R. Bolte, Associate Vice President for Academic Affairs, serving as Acting Dean. The College was organized initially into seven programs: Communicative Disorders, Health Sciences, Medical Record Administration, Medical Technology, Nursing, Radiologic Sciences, and Respiratory Therapy. A Dean's search committee was formed from representatives of each program. Dr. Owen C. Elder, Jr. was selected as the first Dean of the College in September, 1978.

During the year 1978-79, work on the structure of the College and its mission, goals, and objectives took place. In June, 1979, the goals and objectives were approved by the College faculty.

The goal of the College of Health Related Professions, University of Central Florida, is to improve and maintain health through instruction, research, and service programs. The highest priority will be given to addressing the needs of Central Florida and the State of Florida; however, regional, national, and international needs will also be addressed.

Objectives which relate to this goal are: (1) to educate health professionals at the baccalaureate and graduate level to meet the needs of health and health care organizations, agencies, and institutions; (2) to educate consumers on how effectively to utilize the health care system and how to maintain personal health; (3) to conduct research relating to health care, to health maintenance, and control of environmental factors which affect health; (4) to engage in service activities which...
relate to health care, health maintenance, and control of environmental factors which affect health.

The Nursing Program was developed for implementation in the Fall, 1979. The beginning class of 50 juniors includes 30 generic students and 20 R.N.'s pursuing the BSN. Specific accomplishments of the year are included in the section below.

Accomplishments of the Year

The College of Health Related Professions has made significant accomplishments during the year 1978-79. Early in the year, the College was organized into seven Programs each headed by a Director.

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communicative Disorders</td>
<td>B.A.</td>
<td>Dr. Thomas A. Mullin</td>
</tr>
<tr>
<td>Health Sciences</td>
<td></td>
<td>Dr. Thomas S. Mendenhall</td>
</tr>
<tr>
<td>Medical Record Admin.</td>
<td>B.S.</td>
<td>Mrs. Mary J. Neill</td>
</tr>
<tr>
<td>Medical Technology</td>
<td>B.S.</td>
<td>Ms. Marilyn Kangelos</td>
</tr>
<tr>
<td>Nursing</td>
<td>B.S.</td>
<td>Dr. Leon Eldredge, Jr.</td>
</tr>
<tr>
<td>Radiologic Sciences</td>
<td>B.S.</td>
<td>Mrs. M. Jo Geren-Edwards</td>
</tr>
<tr>
<td>Respiratory Therapy</td>
<td>B.S.</td>
<td>Mr. J. Stephen Lytle</td>
</tr>
</tbody>
</table>

Later in the year, some of the Directors assumed additional responsibilities for College-wide administrative functions.

Acting Assistant to the Dean - Dr. Mendenhall
Acting Coordinator:
  for Student Affairs - Mr. Lytle
  for Development - Ms. Kangelos
  for Continuing Education - Dr. Eldredge
  for Instructional Research and Service - Mrs. Geren-Edwards

Instruction

In the area of teaching, the College, as a whole, began to grow and expand. Table 1 shows the headcount, student credit hour production, and graduates for 1978-79.
Table I
1978-79

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Headcount (Fall, 1978)</td>
<td>53</td>
<td>16</td>
<td>74</td>
<td>97</td>
<td>98</td>
<td>50</td>
<td>109</td>
<td>497</td>
</tr>
<tr>
<td>Student Credit Hours</td>
<td>502</td>
<td>273</td>
<td>260</td>
<td>177</td>
<td>187</td>
<td>189</td>
<td>456</td>
<td>2,044</td>
</tr>
<tr>
<td>Student F.T.E.</td>
<td>33</td>
<td>18</td>
<td>17</td>
<td>12</td>
<td>12</td>
<td>13</td>
<td>30</td>
<td>135</td>
</tr>
<tr>
<td>Credit Hour Production (SCH/faculty)</td>
<td>167</td>
<td>136</td>
<td>130</td>
<td>88</td>
<td>62</td>
<td>94</td>
<td>152</td>
<td>120</td>
</tr>
<tr>
<td>Number of Faculty</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>16*</td>
</tr>
<tr>
<td>Graduates</td>
<td>15</td>
<td>-0-</td>
<td>27</td>
<td>16</td>
<td>-0-</td>
<td>8</td>
<td>30</td>
<td>96</td>
</tr>
</tbody>
</table>

Table II shows the headcount, student credit hour production, and graduates for the Fall quarter, 1979.

Table II
Fall, 1979

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Headcount (Fall, 1979)</td>
<td>57</td>
<td>25</td>
<td>71</td>
<td>96</td>
<td>178</td>
<td>86</td>
<td>85</td>
<td>598</td>
</tr>
<tr>
<td>Student Credit Hours</td>
<td>639</td>
<td>773</td>
<td>366</td>
<td>259</td>
<td>890</td>
<td>705</td>
<td>543</td>
<td>4,175</td>
</tr>
<tr>
<td>Student F.T.E.</td>
<td>43</td>
<td>52</td>
<td>24</td>
<td>17</td>
<td>59</td>
<td>47</td>
<td>36</td>
<td>278</td>
</tr>
<tr>
<td>Credit Hour Production (SCH/faculty)</td>
<td>213</td>
<td>386</td>
<td>183</td>
<td>129</td>
<td>222</td>
<td>352</td>
<td>181</td>
<td>232</td>
</tr>
<tr>
<td>Number of Faculty</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>18*</td>
</tr>
<tr>
<td>Graduates</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

As can be seen by comparing the two tables, student credit hour production is up 104%; student headcount is up 20%; and the full-time student equivalent (FTE) has increased by 100%.

Clinical Affiliation

The College developed a standard clinical affiliation agreement that is negotiated with health care institutions which provide clinical instruc-

*Vacant lines and Dean's line not included
tion for students in College of Health Related Professions programs. After this has been signed, an additional letter of agreement is negotiated for each program involved. The institutions that are official clinical affiliates include Florida Hospital, Halifax Hospital, Orlando Regional Medical Center, and Winter Park Memorial Hospital. Those additional clinical affiliates which have been designated in 1979-80 include Orlando General Hospital, Orlando Memorial Convalescent Home, Lakeland General Hospital, Lucerne Hospital, Winter Haven Hospital, and Winter Park Care Center.

College Requirements

Early in the year, two College courses were identified as a core requirement for all programs in the College:

- HSC 3328 U.S. Health Care Systems
- HSC 4101 Organization and Management for Health Care Agencies

Student Organization

In addition, the College of Health Related Professions Student Association was formed. The first annual College of Health Related Professions "Placement Day" was held in May, 1979 to further enhance student involvement. During this placement day, nine hospitals and health care organizations were represented, and four of the College programs participated.

Program Achievements

Each of the programs in the College had specific achievements of merit:

Communicative Disorders:

Work continued on preparing the implementation proposal for the
Master's degree in Communicative Disorders. The faculty in Communicative Disorders continued to be active in teaching, research, and community service.

Research and Publications


Continuing Education

1. Dr. Doris Bradley taught the following continuing education courses:

   a. "Language Assessment and Intervention," presented as part of the Distinguished Lecture Series at St. Louis University, St. Louis, Mo., June, 1979.


Consulting

1. Dr. Doris Bradley is a member of the Advisory Council for Project ECHO, which deals with handicapped infants from the intensive care unit until age three. This is located at Orlando Regional Medical Center.

2. Dr. Doris Bradley is a consultant to Orange County Schools helping staff members prepare a grant entitled, "The Evaluation Center and Service Model of Augmentative Communication Systems for Non-Vocal/Unintelligible Students."

3. Dr. Doris Bradley was a consultant for the Infant Language Research Project at the University of South Mississippi in 1978-79.

4. Dr. David Ingram is a member of the Advisory Planning Group for Stroke Organization, Brevard County, August, 1978.

Health Science

Development continued on the Master's degree in Health Science and the minor in Health Science. In addition, Health Science faculty were active in teaching and community service. Dr. John F. Bergner, Jr. was on sabbatical in 1978-79.

Community Service

1. Dr. Thomas S. Mendenhall was Chairman of the Membership Services Committee of the Council of Individual Members of ASAMHP, 1978.

Medical Record Administration

The American Medical Record Association/American Medical Association Accreditation Survey team recommended reaccreditation of the Medical Record Administration Program. In addition, the MRA faculty were active in teaching, research, and continuing education.
Continuing Education

1. The Director and faculty conducted a Review Workshop for MRA graduates prior to the National Registry examination in May, 1979. The MRA faculty prepared and organized a Review Workshop on the state level prior to the accreditation and registration exams in October.

Medical Technology

The Medical Technology Program began the process of converting to a 2 + 2 format. Students entering in 1979-80 in the Junior year will spend half of the Senior year in a hospital instead of the entire year. Two hospitals have signed affiliation agreements already, and curriculum revisions have already begun.

Continuing Education


Community Service

1. Marilyn Kangelos was elected Chairman of the Education Scientific Assembly of the Florida Division of American Society for Medical Technology.

Nursing

The Nursing Program faculty designed the curriculum and developed courses for the beginning class in September, 1979. The structure of the Nursing Program was formalized to include an Admissions Committee.

A capitation grant was developed and subsequently awarded to the Nursing Program for $11,057. Also, the Department of Health, Education and Welfare awarded $1,806 to the Nursing Program for student stipends.
Radiologic Sciences

The Joint Review Committee for Radiologic Technology Education approved the offering of a one-year Pilot Program in Radiation Therapy. A total of 26 persons currently employed in Oncology/Cancer Centers in radiation therapy are enrolled. Of these, 25 are radiographers and one is an R.N. Upon completion of the 52 quarter hour program, graduates will be eligible to take the national examination for Registry as Radiation Therapy Technicians.

Research and Publications

1. Mrs. Jo Geren-Edwards is a contributing editor of Trop-X, the quarterly publication of the Florida Society for Radiologic Technologists.

Papers Presented

1. Mrs. Jo Geren-Edwards presented the following papers:


Grant Preparation


Continuing Education

1. Mrs. Jo Geren-Edwards conducted the following workshops:


Respiratory Therapy

The Respiratory Therapy Program has been designated as a Quality Improvement Program at the University of Central Florida. The faculty have been involved in teaching, research and community service.

Research and Publications

1. Mr. Steve Lytle received an in-house grant entitled "Dynamic Resistors" Summer, 1979.

2. Director, Steve Lytle, presented a program entitled "Fluidics in Respiratory Therapy" at the Florida Society for Respiratory Therapy Annual Seminar held in March, 1979.

Community Service

1. Director, Steve Lytle, was co-chairman of the Florida Society of Respiratory Therapists Annual Seminar Planning Committee for March, 1979. Dale Johnson assisted.

2. Director, Steve Lytle, is Chairman of the Advisory Committee for the Respiratory Therapy Program at Seminole Community College and is a member of the Advisory Committee for Valencia Community College.
3. Director, Steve Lytle, is on the Board of Directors, Florida Committee for Education in Respiratory Therapy. Dale Johnson and Tim Worrell are on the committee.

4. Director, Steve Lytle, is a member of the Steering Committee, Chapter VII, Florida Society of Respiratory Therapists.

Grants and Contracts

Grants and contracts were important to the College during 1978-79. Nine proposals were submitted for a total of $513,932. Of these, three have been funded totaling $55,672. Three have been turned down by the granting agencies totaling $245,354, and three are still under review totaling $212,951.

Table III presents the details on CHRP grant activities during 1978-79 and is presented on the following page.

Public Relations

Public relations efforts were increased to enhance the visibility of the College and programs. A videotape presentation and a multi-media presentation were produced for use with visitors to the campus and in community college and high school career days.

Short-Term Plans

Those plans that are short-term include the implementation of a M.A. in Communicative Disorders, a minor in Health Sciences, and a Center for Health Research and Service. At our request, consideration of the proposal for implementation of the M.A. program in Communicative Disorders (Speech Pathology and Audiology) by the Program Planning Committee of the board was tabled until the Fall Quarter, 1979. This was done in order to provide an opportunity for input from a new full Professor, Dr. Doris Bradley, who will join the faculty in September, 1979. Review
<table>
<thead>
<tr>
<th>Proposal</th>
<th>Source</th>
<th>1979-80 Amount</th>
<th>Under Review</th>
<th>Status Funded</th>
<th>Not Funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Radiologic Sciences</td>
<td>PHS Allied Health Project</td>
<td>$4,051</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2) Radiologic Sciences (Continuation)</td>
<td>PHS Allied Health Project</td>
<td>40,519</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) Radiation Therapy Pilot Program</td>
<td>American Cancer Society</td>
<td>12,000</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4) Radiation Therapy Pilot Program</td>
<td>NIH-National Institute of Health</td>
<td>65,353</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(5) Dental Radiation Quality Assurance</td>
<td></td>
<td>26,456</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(6) Nursing</td>
<td>PHS Capitation</td>
<td>11,057</td>
<td>X 11,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(7) Nursing, Start-up Assistance</td>
<td>PHS Nursing Project (3 yrs.)</td>
<td>135,598</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(8) Team Approach to Geriatric Health Care</td>
<td>PHS</td>
<td>81,772</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(9) Certificate Program in Gerontology</td>
<td>Administration on Aging</td>
<td>137,126</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$513,932 $212,951.00 $55,627.00 $245,354.00
of the proposal to implement by the Program Planning Committee will be requested at its meeting in November, 1979. If approved, and if funds are available for additional resources required, the program will be implemented in January or March, 1980. When implemented, this program will prepare speech pathologists and audiologists to meet the needs of the public schools and the health care facilities of Central Florida. The need for more Master's level professionals in Speech Pathology is particularly acute in the public schools of Central Florida.

A 24 hour minor in Health Sciences has been proposed for implementation in 1979-80. The minor consists of a three course, 10 hour required core, and at least 14 hours of restricted elective coursework. The major will serve (1) to make the student an informed consumer of health care, (2) to enable the student to better maintain his or her own personal health, and (3) to enhance the career objectives of the student. Particular interest has been expressed in the minor for majors in Public Administration, Criminal Justice, and Business Administration.

A proposal has been submitted to Academic Affairs for implementation in 1980-81 of a Center for Health Research and Community Service. The existence of a minimally funded Center would make it possible for the College to become actively involved in applied research and community service activities addressing local needs. It will also enhance efforts to obtain grants and contracts for this purpose.

Long-Range Plans

The Long-Range Plan of UCF which was approved by the Board, includes two new Master's degree programs in the College of Health Related Professions: M.S. in Health Sciences and Master of Public Health. Descriptions of these programs are included in the following pages.
It is generally recognized that there is a significant need in Florida for persons trained at the Master's degree level in public health. Public health problems are increasing; the environment is deteriorating; and community disease is increasing. The gap is widening between the health service needs of the communities and what is being delivered by most city and county health departments. Because qualified public health manpower are not available in sufficient quantities to fill the positions available, persons without the appropriate qualifications must be called upon to fill them.

The basic preparation for the public health profession is the Master of Public Health (MPH) degree. Physicians, dentists, veterinarians and other doctoral level health professionals pursue the MPH degree; however, most of the persons now pursuing the MPH in the U.S. have the baccalaureate as the highest degree. All students must complete a substantial core of courses after which they begin preparation for one of four primary areas of specialization: health care administration; environmental health, epidemiology; and health education.

There are only 20 accredited schools of public health in the U.S. and only three in the Southeast: Tulane University, University of North Carolina, and University of Alabama in Birmingham. There is no Master of Public Health program in the SUS or in the State of Florida.

The UCF provides an excellent environment for the development of the MPH program. It is centrally located within the State. It is in one of the State's largest urban areas, and yet it is surrounded by rural, agricultural counties. The Orlando metropolitan area and other cities nearby have large teaching hospitals of excellent quality, and Orange County has a high quality Public Health Department. The existing expertise at UCF in the health related professions, environmental engineering, biological sciences, computer science, and others provide a solid basis for the development of an MPH program which may be accredited by the Council on Education for Public Health.
IMPLEMENTATION OF A
MASTER OF SCIENCE PROGRAM
IN
HEALTH SCIENCES
AT THE
UNIVERSITY OF CENTRAL FLORIDA

The need for competent faculty and administrators in the allied health sciences is substantial in the State of Florida and in the U.S. It is difficult for educational programs to locate faculty members who have had appropriate Master's degree preparation. It is also difficult for hospitals to locate allied health practitioners with an appropriate Master's degree preparation for clinical department management. Accrediting organizations for allied health educational programs and for hospitals are requiring or recommending Master's degrees for persons in these positions.

The few graduate programs to prepare allied health educators in the Southeast cannot supply sufficient numbers of graduates to meet the demand. Moreover, the existing programs typically require extensive coursework in education and little in the allied health science discipline. Most programs, in fact, award degrees in education. None of the existing programs are designed to prepare allied health science practitioners for the management of clinical departments within hospitals.

The UCF Master of Science Program in Health Sciences will be designed to produce an allied health practitioner with advanced knowledge and capabilities within one allied health science discipline who also has a breadth of understanding of the health care system, a foundation in the scientific method, and expertise in either education or administration.

One-third of the curriculum will consist of a common core, one-third will be advanced work in the allied health sciences discipline and areas cognate to it, and one-third will be in either allied health science education or administration.

The existing resources of the College of Health Related Professions along with those in the biological sciences, management, and education, at UCF provide a solid basis for the implementation of the M.S. Program in Health Sciences.
There is considerable interest within the State in the development of the MPH program at UCF in order that it may be accredited as a "school of public health." There is a possibility of an allocation of $100,000 from the State Department of Health and Rehabilitative Services in 1980-81 for planning and development. There is also a possibility of new legislation to provide an appropriation for implementation in 1981-82.

Additional Programs or Emphases

Additional programs are under consideration for development over the next five years. To support the physician specialists in the sophisticated hospitals and medical centers of Central Florida, the College should educate more types of specialized support professionals at the baccalaureate and graduate levels. This plan can be accomplished in part by providing new emphases within existing programs. These proposed emphases would include:

Radiation Therapy

If the pilot program in radiation therapy is as successful as is anticipated during 1979-80, a request will be made to offer an emphasis in radiation therapy within the existing B.S. Program in Radiologic Sciences in 1980-81. This will result in larger class sizes in courses which are presently offered, and a limited number of new courses in radiation therapy. Most of these will be clinical courses. Students who take the radiation therapy emphasis would be eligible for certification in that field instead of radiography.

Medical Dosimetry

An emphasis in medical dosimetry will also be explored for possible implementation within the B.S. in Radiologic Sciences Program in 1981-82.
Echocardiography

An emphasis in echocardiography is being discussed as an add-on for students in respiratory therapy, nursing, and radiologic sciences. This would lead to additional certification as echocardiography technicians for students in these programs.

Other areas to be developed within the next five years may include cooperative programs with other Colleges, other new programs, and expanded emphasis on continuing education.

Cooperative Programs with Other Colleges

Joint efforts with the College of Engineering may result in bachelor's programs for Biomedical Engineering Technologists and Sanitarians.

A cooperative effort with the Department of Sociology and the Department of Psychology in the College of Social Sciences could result in a sequence of courses leading to certification in gerontology. By taking a group of specified elective courses, students in such majors as nursing, psychology, respiratory therapy, social work, and sociology could prepare to utilize their professions to better serve the needs of the elderly. This is particularly important for the University of Central Florida because of the large percentage of elderly persons in the population of Central Florida.

Other New Programs

In the long-term future, new B.S. programs in clinical dietetics and nutrition, nuclear medicine technology, cytotechnology, and anesthesia for nurses will be considered for possible development.

When the B.S. in Nursing program is fully under way, an M.S. in Nursing may be developed. This would prepare nurses in advanced clinical nursing areas such as medical/surgical, maternal and child, psychiatric,
rehabilitation, community/public health, and others. M.S. programs in medical physics, nutrition, and rehabilitation services are also under consideration.

Continuing Education

Continuing education will receive a high priority in the next five years. This will include continuing professional education for persons practicing in those specialties included in the College. It will also include consumer oriented continuing education programs to enable individuals to utilize the health care system intelligently and, even more important, to maintain their own personal health.

A recommendation has also been made to change the name of the College to "College of Health" to better reflect its goals and objectives.

Areas in Need of Improvement

Structure of the College

At present, there are no departments in the College, although there are seven programs. In 1979-80, the criteria for departmental designation need to be formulated, and consideration needs to be given to grouping programs by functional similarity.

Administrative Support for the Dean

Too much technical, detailed reporting must be accomplished by the Dean at present. An Associate Dean, Assistant Dean, or Assistant to the Dean is much needed. Moreover, the Dean has inadequate secretarial support with only a staff assistant. The combination of required reporting, developmental work, and promotional activity generates more clerical work than one person can complete.
Leadership Development for Program Directors/Faculty Development

Because of its nature, the College has a higher than average percentage of faculty members with less than the doctorate. A plan for faculty development including pursuing of the doctorate is needed. Moreover, most Program Directors are new to the role, and need management and leadership development.

Space

Although space is adequate for 1979-80, it is far from ideal. Three programs share a single, small laboratory, and there are no classrooms for large classes in the College. The problem will become acute in 1980-81 when the new Nursing Program has both Juniors and Seniors enrolled.

Financial Resources

In this developmental stage of the College, the "allocation model" approach to budgeting has not resulted in adequate financial resources. Unusual but recurring expenses such as student liability insurance and program accreditation fees are not adequately addressed by the model. Recurring OPS needs for adjunct faculty and speech and hearing clinic manager are not adequately addressed.

Recommendations

Recommendations relating to the College of Health Related Professions are centered upon the acquisition of the additional resources which are needed.

1. Modify the budgetary allocation process (1) to provide more adequately for the developmental status of the College, and (2) to provide for the requirements imposed by accrediting bodies relating to faculty/student ratios, annual accrediting fees, student liability insurance, etc.
2. Explore the possibility of funding other than a credit hour based formula. The College of Health Related Professions at the University of Florida has a total budget for 1979-80 of $2,750,000. UCF's College, which is over half the size of the UF College, has a total budget of only $698,561. UF has a more than $2 million larger budget. I recommend that we pursue all possible sources of state support in order to generate the budget needed if UCF is to have a quality College of Health Related Professions.

3. Pursue State capital funds for construction of a new building for the College.

4. Pursue extramural funding for:
   a. Construction of a College building.
   b. Sponsored or endowed chairs in order to enhance existing programs and provide for the development of new ones.
   c. Research and service activities through the proposed Center for Health Research and Service.

**Summary**

The College has shown a significant increase in productivity and activity. Faculty and staff have given an excellent effort in attempting to overcome the constraints imposed by limited faculty positions, staff-lines, and financial considerations.

The plans for the future development of the College of Health Related Professions will demand much from the existing faculty and staff. It will be necessary to add a significant number of people, and additional space and equipment will be necessary. The present formula approach to funding which is based upon credit hour production may not cover the type costs involved if the goal of improving health is to be accomplished at a significant level. A vigorous effort will be made to seek extramural funding for start-up costs and for capital.