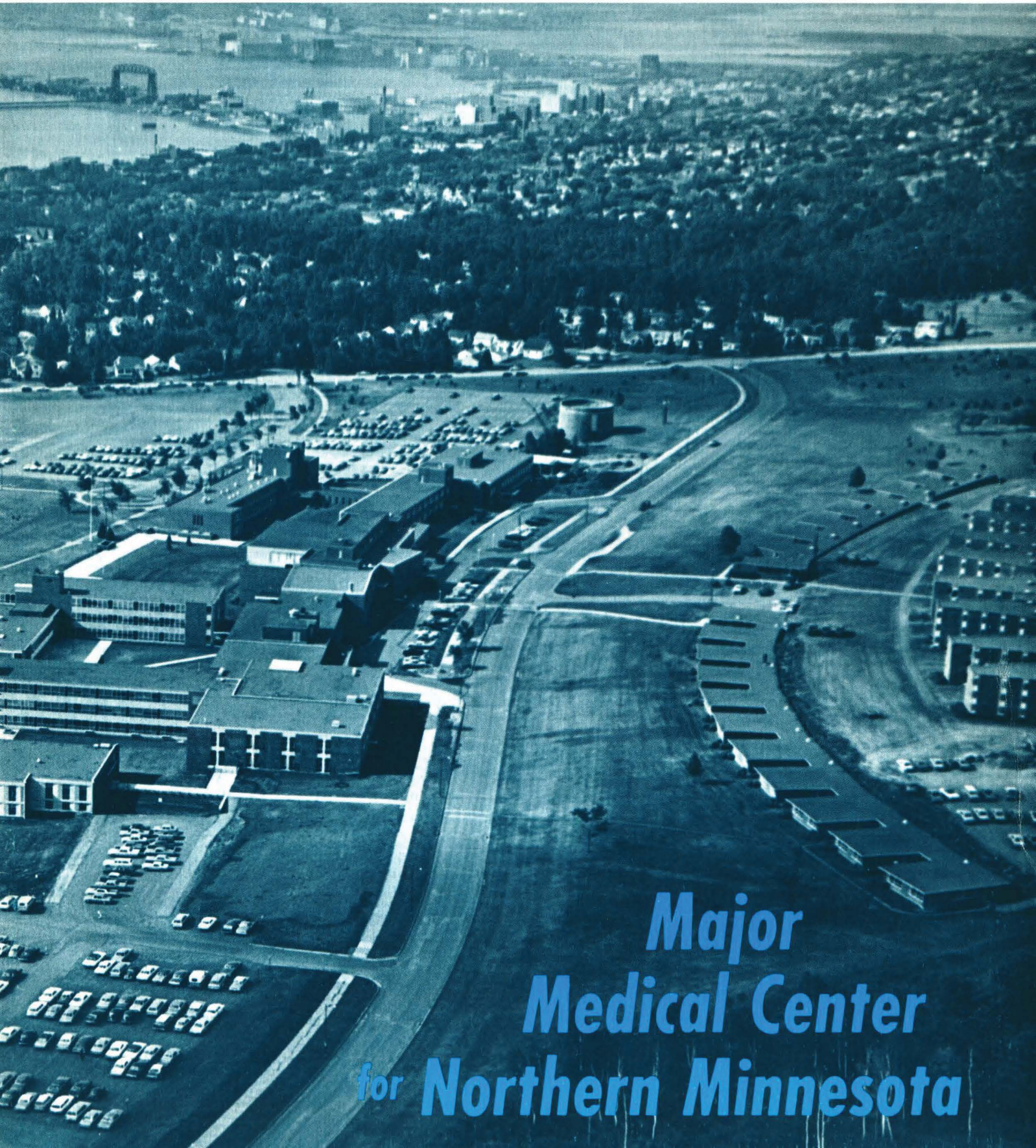


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# UNIVERSITY OF MINNESOTA, DULUTH

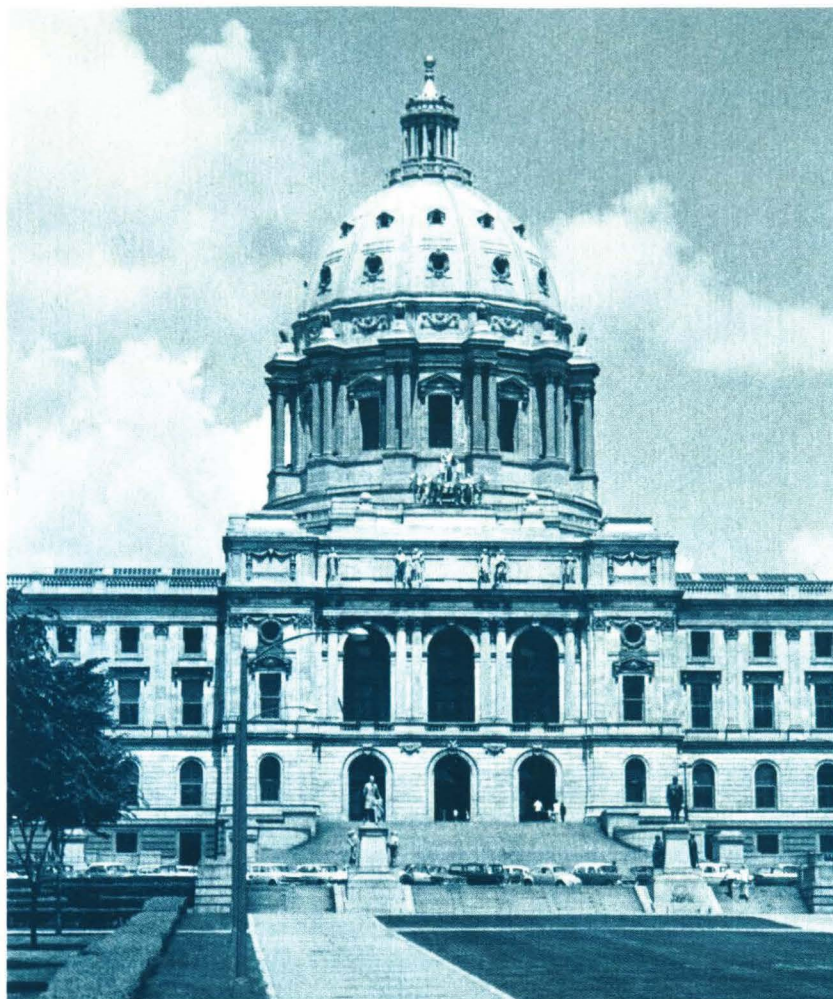


*Major  
Medical Center  
for Northern Minnesota*

## the Charge...

### from the Minnesota State Legislature

(1969 Session)



“Sec. 5 ESTABLISHING A BASIC SCIENCES PROGRAM FOR A MEDICAL TRAINING CURRICULUM AT THE DULUTH CAMPUS OF THE UNIVERSITY OF MINNESOTA. For the furtherance of expanding medical education in the state of Minnesota, there is hereby appropriated from the general fund in the state treasury to the regents of the University of Minnesota, the sum of \$340,000. Such money is to be allocated to the Duluth campus of the University of Minnesota, solely for the purpose of establishing a separate basic sciences program as a part of an additional medical curriculum in the state of Minnesota. Such funds shall be used for the employment of a medical coordinator or dean and staff and to pay the related expenses, for planning for the design and construction of a basic science building, for faculty recruitment and for curricula planning, to the end that the first class of students in the basic sciences program may be entered at the Duluth campus of the University of Minnesota in the fall class commencing in 1972. None of the moneys herein appropriated are to be used or expended by the regents of the University of Minnesota at any place except the Duluth campus of the University of Minnesota, and for the purposes herein expressed, in order that a new medical educational capability in Minnesota may be achieved for the people of the state.”

## DEAN APPOINTED...

Dr. Robert E. Carter was appointed Dean of the UMD Medical Education Program July 10, 1970. He is a native of Minneapolis and graduated from the School of Medicine, University of Minnesota. He served as Dean of the School of Medicine and Director of the University Medical Center at the University of Mississippi, Jackson from 1967.



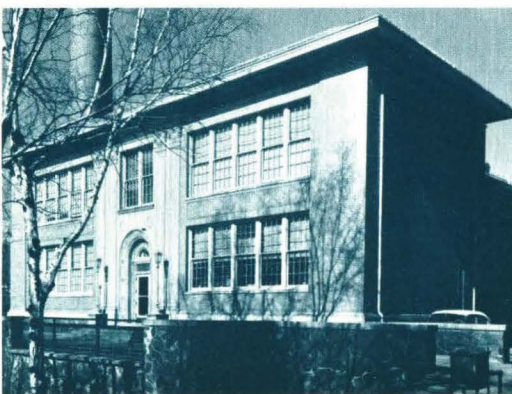
## the Response....

### FACULTY RECRUITMENT...

More than 300 names have been considered . . . 100 have been interviewed. The opportunity to be a part of a new program and innovative planning has attracted exceptionally well qualified applicants from the major universities and medical centers throughout the country.

### CURRICULA PLANNING...

The first of three scheduled conferences has been held . . . national agencies have been consulted. The opportunity to explore new concepts . . . provide higher quality medical educational opportunities . . . develop a curricula that attracts top quality students is a challenge to those involved in planning the basic science program at UMD.



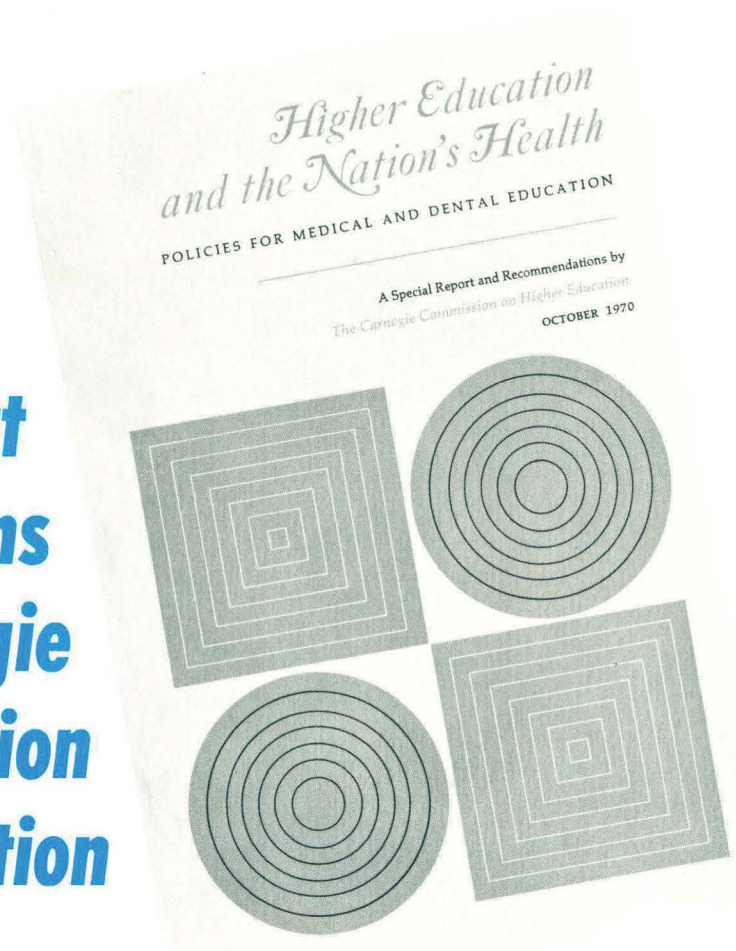
### BUILDING AVAILABLE...

UMD is fortunate to have available a structurally sound building—formerly used as a Laboratory School—as temporary quarters for the program. Whenever possible, planners are looking toward use of available facilities, rather than seeking construction grants for the erection of new buildings at this time.

### LOCAL SUPPORT...

The first phase of a drive to raise \$2 million in support of the medical program at UMD was launched on June 16, 1970 by the Northern Minnesota Council for Medical Education. The goal of the initial drive was \$500,000. The initial goal has been exceeded by more than \$200,000.

# A Special Report and Recommendations by the Carnegie Commission on Higher Education



Excerpts from the Report follow:

Pages 54 and 55:

"The Commission recommends the development of nine new university health science centers."

"The Commission believes that there should be a university health science center in every metropolitan area with a population of 350,000 or more, except for those areas which can benefit from the impact of centers that already exist in other geographically convenient communities. The Commission has identified eight metropolitan areas of at least this size and an additional metropolitan area, Duluth-Superior, with a population falling somewhat below 350,000, in which we believe university health science centers should be established. Duluth-Superior is located so far away from the nearest medical school (in Minneapolis-St. Paul) that its needs cannot be adequately served without a university health science center of its own. Moreover, a university health science center in the Duluth-Superior area would serve large parts of northern Minnesota, Wisconsin and Michigan."

**Pages 44 and 45:**

“The Commission recommends that the number of medical school entrants should be increased to 15,300 by 1976 and to 16,400 by 1978. Toward the end of the 1970s, the question of whether the number of entrant places should continue to be increased will need to be reappraised. The expansion in the number of medical school entrants should be accomplished through an average expansion of about 39 to 44 percent in existing and developing schools by 1978, with nine new schools accounting for about 900 to 1,350 entrant places, adding another 8 to 13 percent.”

**Page 49:**

“The Commission recommends that all universities with health science centers develop plans for accelerating premedical and medical education. The Commission also recommends that plans be developed for shortening the total duration of pre dental and dental education where it is unnecessarily prolonged. We particularly favor a program calling for three years (instead of four) after the B.A. to obtain the M.D. or D.D.S. and a three-year residency (instead of the typical four years of internship and residency).”

**Pages 52 and 53:**

“In addition, the Commission recommends that existing two-year medical schools that do not lead on to M.D. candidate education within the same university system be converted to provide full M.D. candidate education as soon as possible and that no new two-year schools of this type be established.”  
“The Commission also recognizes that local initiative is desirable, and usually essential, in planning for a new university health science center. In the absence of local initiative, it may be difficult to develop centers in the nine communities we have identified.”

*As noted previously, local initiative has succeeded in exceeding the initial financial goal. On the following pages you will note that the hospitals in the community and ancillary facilities have programs which enhance the educational offerings available at UMD. Additional programs are in the planning stage to increase opportunities for training in the health-care occupations.*

## Modern Hospitals Serve Wide Area...

Duluth's history as a major medical center began with its two major hospitals, St. Luke's, founded in 1882, by St. Paul's Episcopal Church, and St. Mary's founded in 1888 by the Sisters of the Order of St. Benedict. In 1934 Miller Memorial Hospital (recently re-named Miller-Dwan Hospital and Medical Center) was opened. ■ Through the years, these hospitals together with other medical facilities in Duluth have served an ever-widening area which now includes northern Minnesota, Wisconsin, Michigan and Southern Ontario. ■ All three of Duluth's hospitals have recently undergone extensive remodeling and expansion programs. Duluth, as a medical center, has a total capacity of approximately 1300 beds . . . sufficient to meet the highest projected bed need in the Duluth area through 1990. ■ For many years St. Mary's and St. Luke's Hospitals have offered outstanding internship programs. Since 1953 these hospitals have trained 337 interns, of whom 80% have taken up residency in Minnesota.

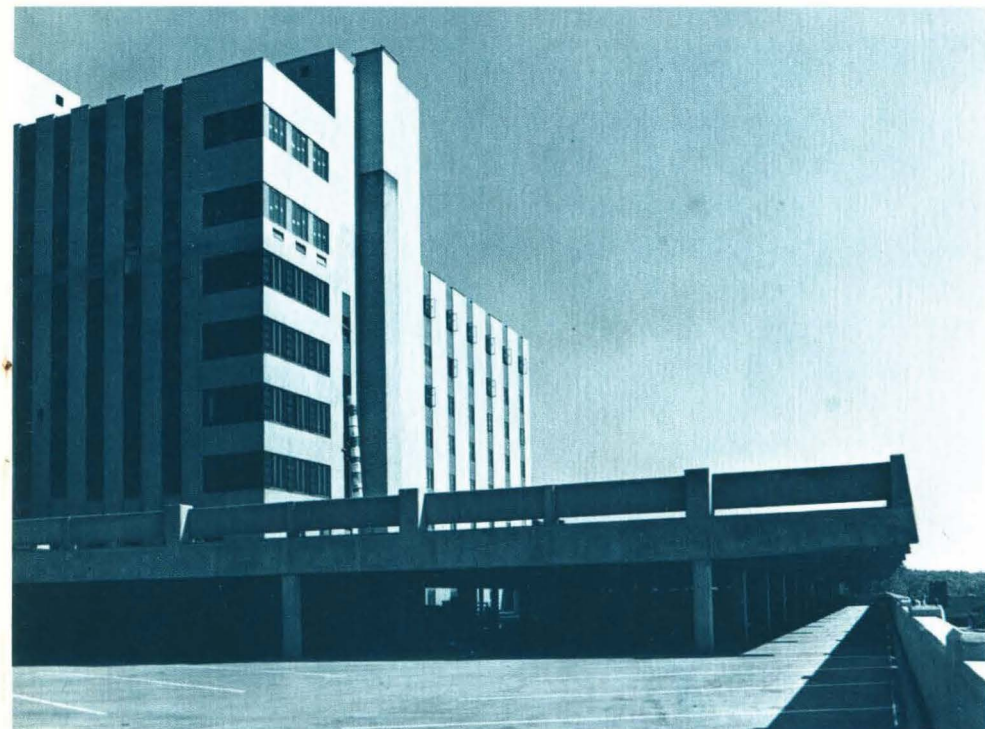
Duluth provides the only major medical service available to residents of northern Minnesota, Wisconsin and Michigan as well as Southern Ontario.





**St. Luke's Hospital** dedicated a major renovation and expansion project in June of 1969. Remodeling scheduled for completion in the fall of 1971 will add an additional 100 beds to the Hospital.

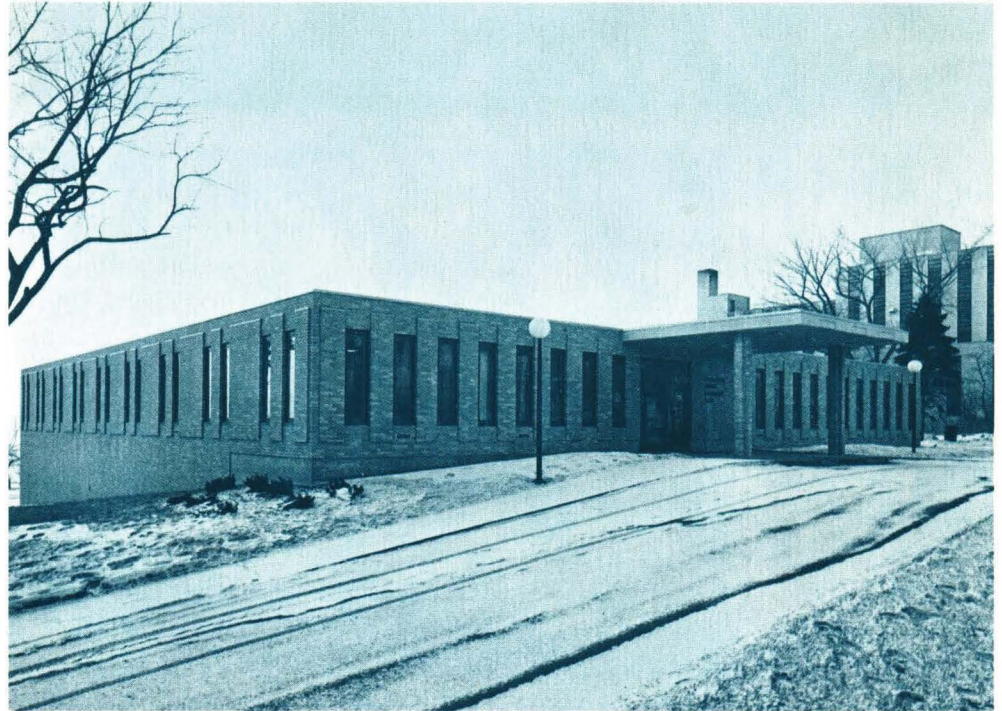
**St. Mary's Hospital** opened a new addition in September of 1969. Three new patient floors were added; additional renovation and expansion is in progress.



**Miller-Dwan Hospital and Medical Center** will dedicate a new eight story addition in the fall of 1971. Renovation of the present structure will also be completed.

## Also Serving are...

**Nat G. Polinsky  
Memorial Rehabilitation  
Center** . . . offers a comprehensive rehabilitation program for physically disabled children and adults.

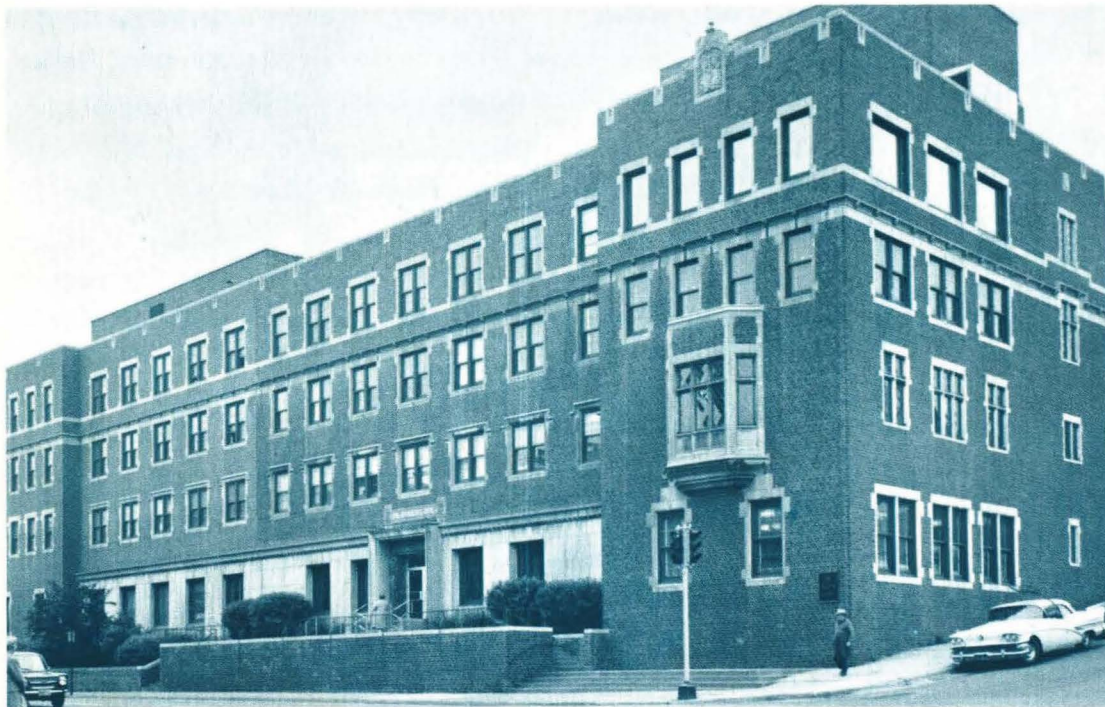


**Human Development  
Center** . . . (formerly Duluth Mental Hygiene Clinic) provides a complete range of psychiatric, diagnostic, testing and treatment services.





A survey (in 1965) of the Duluth area shows 174.3 physicians per 100,000 population, compared with a national ratio of 132.2 physicians per 100,000 population. Duluth's doctors serve an average weekly patient load of 14,000. Medical services center around the Duluth Clinic founded in 1916, and the Duluth Medical Arts Building, as well as the West Duluth Clinic and other community medical clinics. ■ Duluth's physicians represent all of the medical disciplines; about 75% of these doctors are specialists. ■ Annually, \$26 million is spent for medical services in Duluth; more than a third of this amount is estimated to come from outside of Duluth.



**The Medical Arts Building**, above, and the **Duluth Clinic**, left, provide offices and additional diagnostic facilities for Duluth physicians.

## the Dean...

Appointed Dean of the UMD Medical Education Program, Dr. Carter comes to the Duluth campus with an impressive background of experience and accomplishments.

Following his graduation from the University of Minnesota School of Medicine in 1948, he interned at Cleveland City Hospital and took his residency training at the University of Chicago Clinics.

He was teaching assistant in the Department of Anatomy at Minnesota in 1947; a staff member and associate group leader, Medical Research Group, at the Los Alamos Scientific Laboratory of the University of California in Los Alamos, N.M. from 1948 to 1951; Instructor, then Assistant Professor in the Department of Pediatrics, University of Chicago, 1956 to 1959; Assistant Professor, Associate Professor and Professor in the Department of Pediatrics, University of Iowa, 1959 to 1967; Assistant Dean (1962 to 1966)

and Associate Dean (1966 to 1967) of the College of Medicine at Iowa, and Dean at the University of Mississippi since 1967.

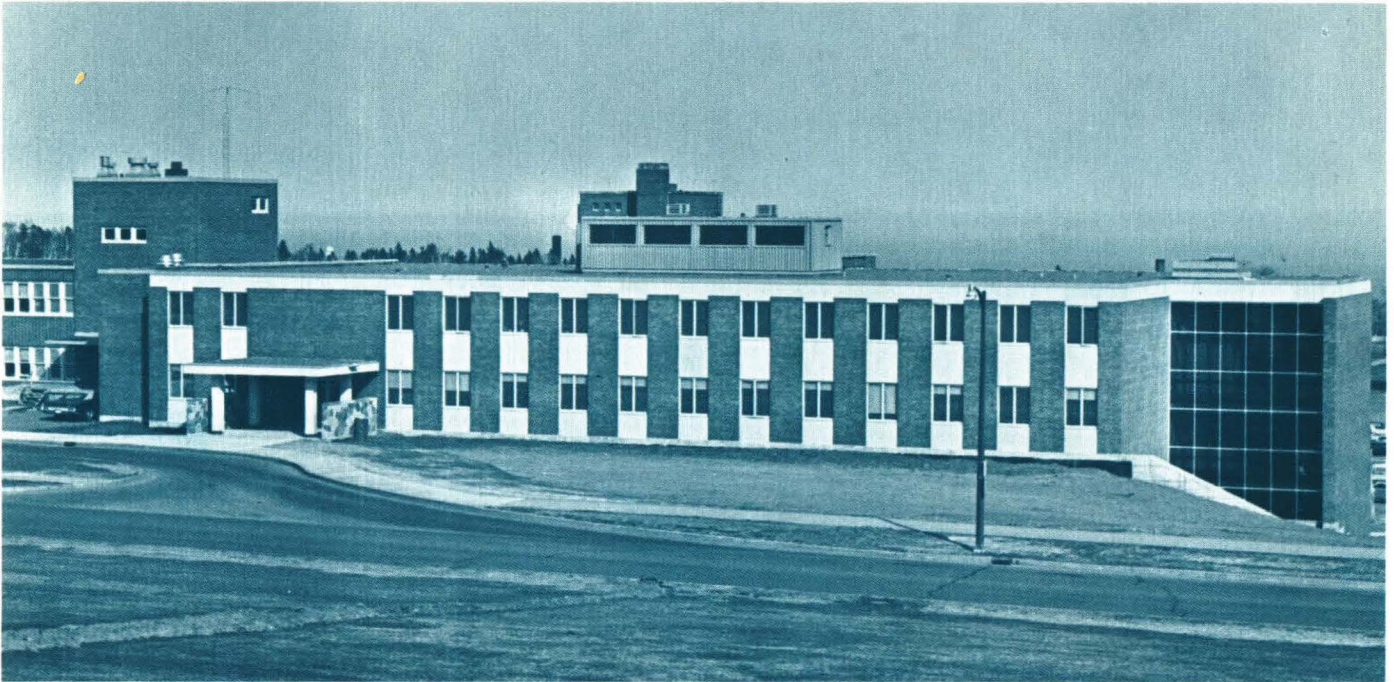
He served as a Lieutenant in the Navy from 1951 to 1953 and holds the rank of Lieutenant Commander (retired).

He has authored, or co-authored, more than a score of papers in professional medical journals dealing with the biological effects of ionization, radiation, leukemia, physical and chemical status of bone marrow, medical education and other topics.



*(L. to R.) Dr. Carter visits with area physicians; Dr. Wallace Mathews, Mankato, State Medical Association Counselor and immediate Past President Minnesota Academy of General Practice; Dr. Robert Kelly, Grand Rapids, President Elect of Minnesota State Medical Association; and Dr. William Jacott, Duluth, Chairman, Medical Advisory Committee to the Dean.*

# Health Care Education



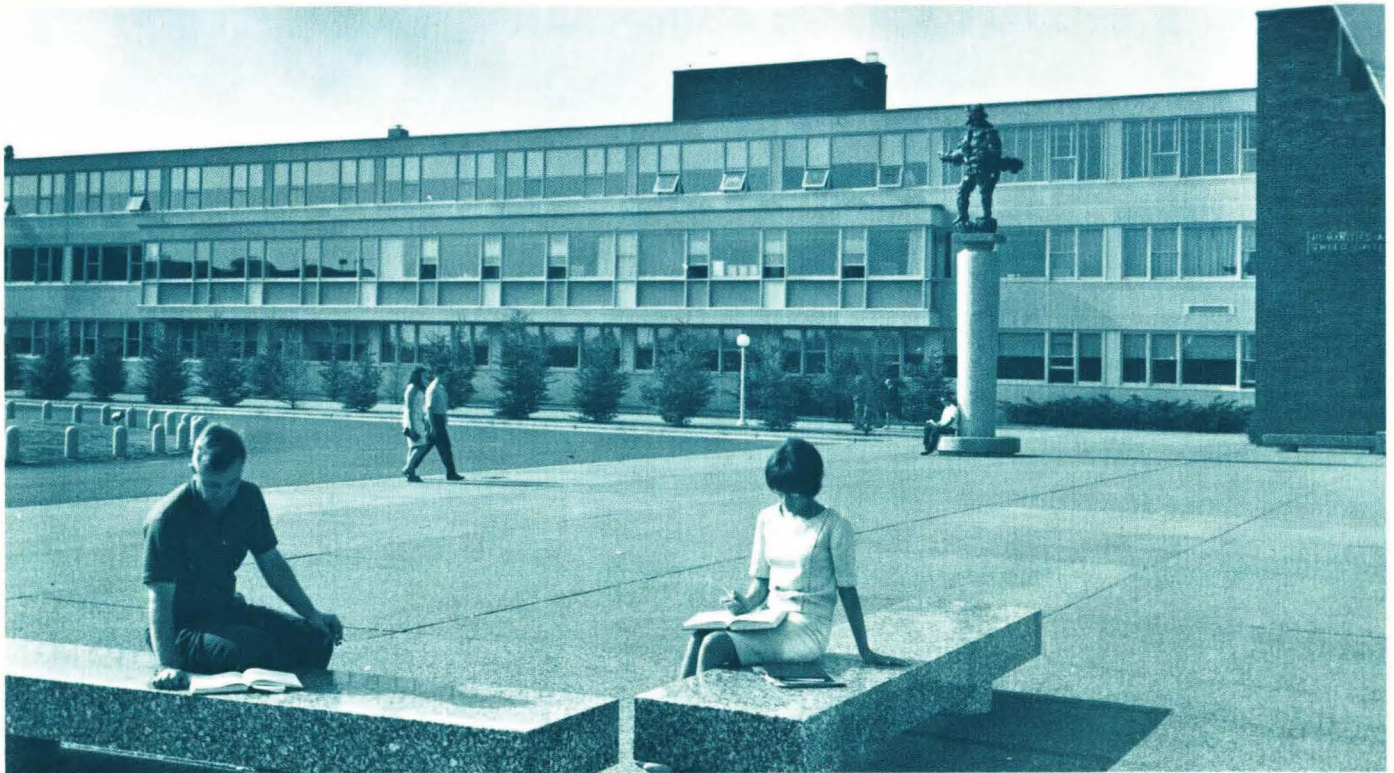
**New, modern Life Science Building recently completed on the University's Duluth campus is one of the finest facilities of its type in the State.**

Duluth's role as a major medical center is enhanced by a comprehensive program of health-care education carried out cooperatively by the area's medical institutions and its three major centers of higher learning, the University of Minnesota, Duluth, the College of St. Scholastica and Wisconsin State University, Superior. In addition, the Duluth Area Institute of Technology offers instruction in certain para-medical fields.

The University of Minnesota, Duluth offers 13 advanced degrees, including chemistry, physics, biology, botany and zoology.

The University also works closely with the Nat G. Polinsky Memorial Rehabilitation Center, Human Development Center and with Miller-Dwan Hospital and Medical Center. On March 11, 1971 the Dwan Auditorium was dedicated "for furthering the health education of all the people of this community . . ."

# University of Minnesota, Duluth



The Duluth Campus became an integral and coordinate campus of the University of Minnesota in 1947. Close to 6,000 students, representing a wide area of Minnesota, currently are enrolled at UMD. Twenty-five academic departments offer students a choice of 55 majors in 36 fields and more than 1,500 classes. In addition to a four-year liberal arts curriculum, UMD offers a four-year elementary and secondary teaching program, pre-professional training programs in 19 fields and Air Force ROTC. Seven Master of Arts and six Master of Science degrees are available at UMD, plus specialist certificates in elementary, secondary and general school administration.

# College of St. Scholastica



The College of St. Scholastica was founded in 1912, and is administered by the Sisters of the Order of St. Benedict. Three-fourths of the 600 students in attendance are from Minnesota communities.

Working closely with St. Mary's Hospital in Duluth and affiliated with the Miller-Dwan Hospital and Medical Center, the College offers Bachelor's degrees in nursing, medical technology, and a course in medical record library science which was pioneered at the College. With the courses offered by the College of St. Scholastica, the University and the various medical institutions, a comprehensive science and health-care education program is available in Duluth.

# Health Care Education in Progress

## ST. LUKE'S HOSPITAL . . .

Medical internship and resident physician training in Pathology—both approved by the American Medical Association's Council on Education.

Diploma program in nursing.

Clinical facilities for the Duluth School of Practical Nursing.

Hospital administrative residency program in cooperation with the University of Minnesota.

School of Laboratory and X-Ray Technology—recognized by Superior State in their degree program.

Clinical affiliation in occupational therapy—in cooperation with the University of North Dakota.

## MILLER-DWAN HOSPITAL AND MEDICAL CENTER . . .

Practical Nurse Training Program—in cooperation with the Duluth Area Institute of Technology.

Program of Social Research—in cooperation with the University of Minnesota, Duluth.

Affiliate of Community Services Program with University of Minnesota Hospitals.

Clinical Outpatient Program for Comprehensive Children's Evaluation Clinic with the University of Minnesota, Duluth and the Nat G. Polinsky Memorial Rehabilitation Center.

Diabetes Education Program.

Residency Program in Hospital Administration with Concordia College.

Vocational Training Program with the New Careers Division of the Duluth Concentrated Employment Program.

Educational Program to involve consumers with the United States Public Health Service.

## NAT G. POLINSKY MEMORIAL REHABILITATION CENTER . . .

Clinical training experiences for University of Minnesota (Minneapolis) occupational therapy and physical therapy students.

Clinical training experiences for University of Minnesota (Duluth) speech therapy and social work students.

On-the-job training for physical therapy aides.

## ST. MARY'S HOSPITAL . . .

X-Ray technician course.

Nurse Anesthesia course.

Clinical facilities for the Duluth School of Practical Nursing.

Medical Internship program.

Residency in Pathology.

Residency program in occupational therapy in cooperation with University of North Dakota, University of Wisconsin, Eastern Michigan and College of St. Catherine.

Residency program in Hospital Administration in cooperation with St. Louis University, Xavier University and University of Minnesota.

Clinical facility for nursing, medical technology, and medical record science, educational programs of the College of St. Scholastica.

## COLLEGE OF ST. SCHOLASTICA . . .

B.A. Degrees can be earned in nursing, medical technology and medical record library science.

St. Mary's Hospital serves as the major clinic for laboratory experience for the College.

The College is also affiliated with Miller-Dwan Hospital and Medical Center.

## UNIVERSITY OF MINNESOTA, DULUTH . . .

Pre-professional programs are offered in medicine, dentistry, medical technology, nursing, occupational therapy, physical therapy, pharmacy, and social work.

Through working relationships with The Rehabilitation Center, Miller-Dwan and the Human Development Center a number of professional training programs are offered.

## HUMAN DEVELOPMENT CENTER . . .

Intern in-service training program in cooperation with St. Luke's.

Senior psychology courses at UMD and the College of St. Scholastica are taught by members of the Clinic staff.

Training experience is provided for medical record librarian students from the College of St. Scholastica.

In-service training in mental health for social workers of St. Louis, Carlton, Lake and Cook Counties.



## Duluth...Regional Cultural and Recreational Center

As Minnesota's third largest City, Duluth offers a style of living and a range of cultural activities which give the City a unique charm and attractiveness. Music, art and drama are given full expression through Duluth's renowned symphony orchestra, the famous Tweed Gallery, the Duluth Playhouse (the nation's oldest community theater), the Duluth Art Institute, the Duluth Light Opera Company, the Civic Ballet and the Junior Symphony. Much of Duluth's cultural activity and entertainment is enjoyed in the City's new Auditorium-Arena complex, completed in 1966. The wide range of cultural activities and achievements adds another dimension to Duluth's growing importance as a regional center in northern Minnesota.



**The Northern Minnesota  
Council for Medical Education**

Dr. S. H. Boyer } Co-Chairmen  
Warren Moore }

Erwin Goldfine, Finance Chairman

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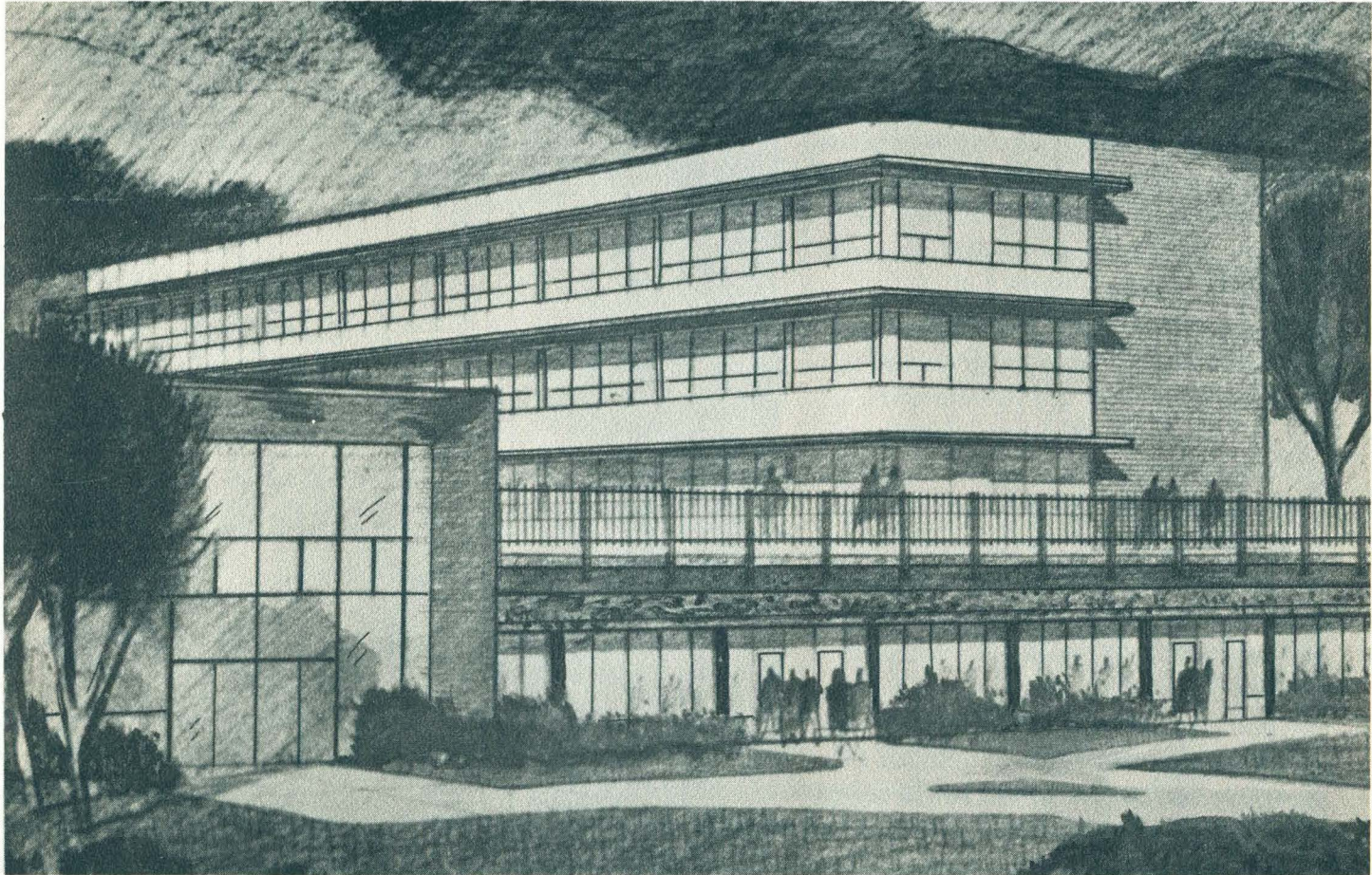




# Medical Education Program

INFORMATION FOR PROSPECTIVE STUDENTS

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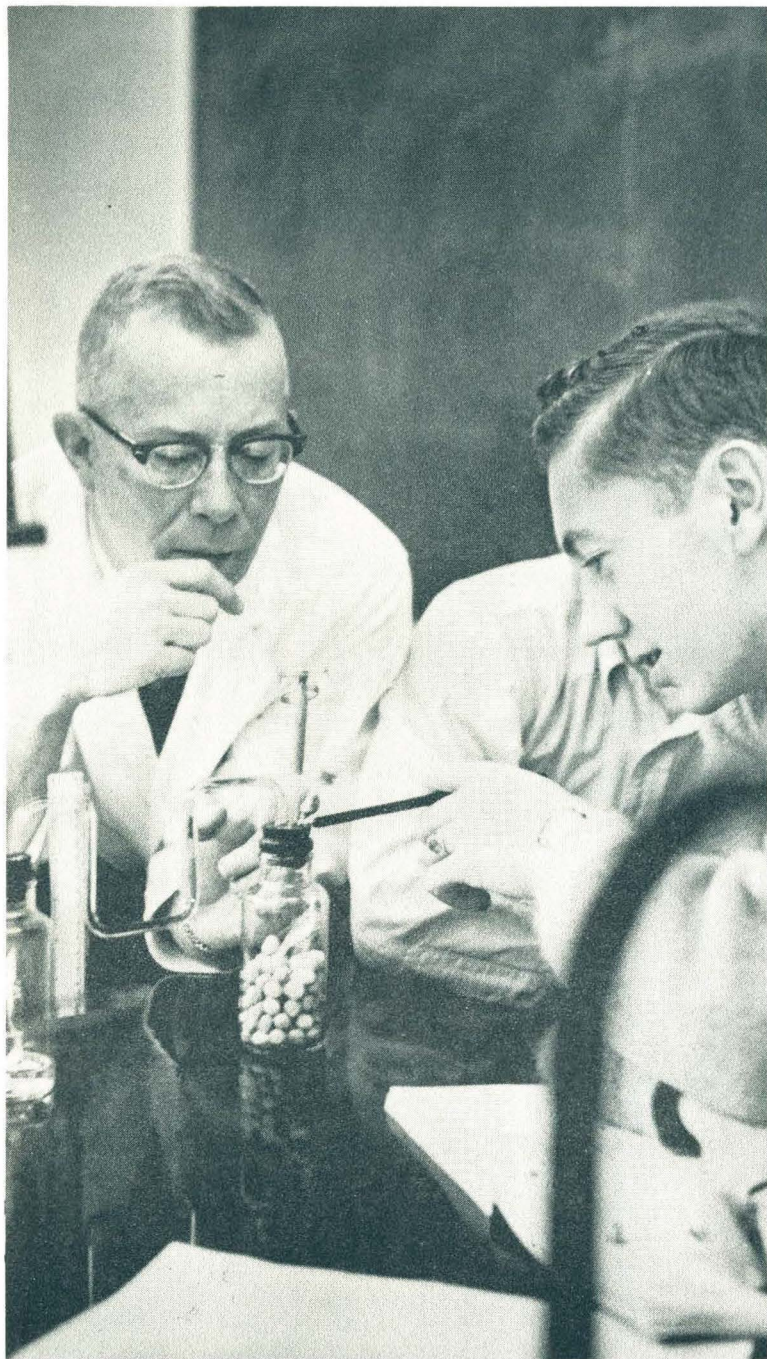
**University of Minnesota Duluth Campus**

The University of Minnesota has established a second medical education program on its Duluth campus. This school will cover the first two years of the medical curriculum with students transferring to the Minneapolis campus for the completion of the Doctor of Medicine degree.

## The Program

The new medical education program on the Duluth campus will educate medical students for the first two years of an interdisciplinary program keyed to producing highly competent physicians sensitive to the needs and feelings of their patients. In addition to lecture, seminar and laboratory instruction, the student is involved with clinical experience as early as the first quarter of medical school. The curriculum is designed to train physicians in the specialty of family medicine. Other specialty training would also be possible in the student's future career. There is a well established transfer mechanism to the University of Minnesota, Minneapolis for completion of the requirements for the degree of Doctor of Medicine.

Small class size with low student to teacher ratios allow maximum faculty-student interaction. Three community hospitals, out-patient and ambulatory care programs provide opportunities for clinical experience throughout the program. Emphasis in classroom and clinical instruction is firmly based in quality of scientific education and patient care, flexibility in curricular design and student progress, and in awareness of current and future modes of delivery of health care. Opportunities exist for learning through student research projects and other elective activities.





## Community & Campus

The Medical Education Program is located on the Campus of the University of Minnesota, Duluth, a coordinate campus in the University system. Convenient access to classrooms, laboratories, teaching hospitals and residence halls is provided.

The combined Duluth, Minnesota-Superior, Wisconsin Greater Metropolitan Area has a population of approximately 282,000. This area, located on the shores of Lake Superior, has long been a tourist attraction because of its ideal summer climate and natural beauty. Winter sports constitute a rapidly expanding area activity.





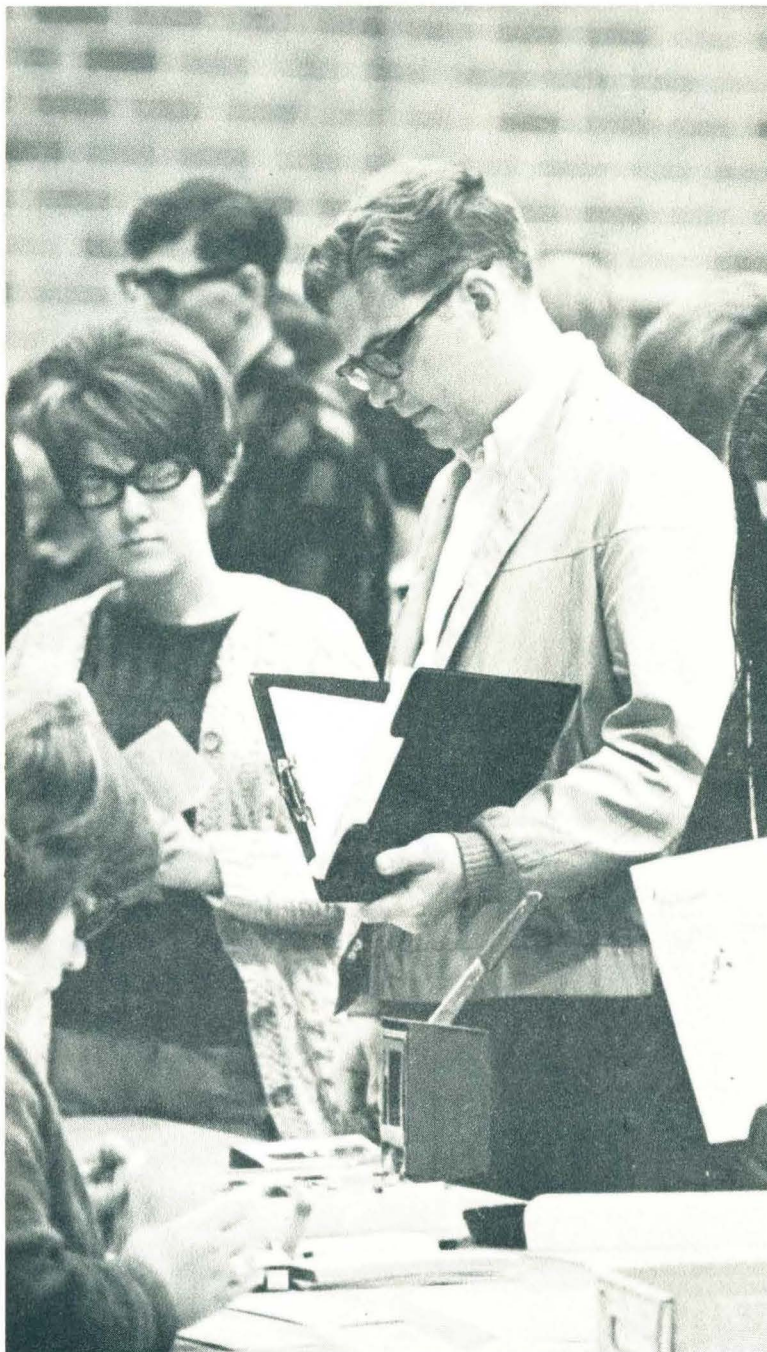
## **Pre-Medical Requirements**

While considerable flexibility is possible in pre-medical programs, a basic minimum of course material is required. This consists of an absolute minimum of 90 credits (60 semester hours) of total collegiate level work including 20 credits of chemistry (including organic chemistry), 15 credits of physics, 12 credits of biology, 10 credits of mathematics, 12 credits of behavioral sciences (psychology/sociology/anthropology) and 12 credits of English. The remaining 9 quarter hours should be in elective subjects.

It is recommended that most students seeking admission to the Medical Education Program plan to complete at least 135 credits of collegiate level work including 45 credits in Upper Division courses. Pre-medical advisors in colleges and universities can counsel students concerning elective courses and general curriculum plans.

## Admission

Admission to the Medical Education Program at the University of Minnesota, Duluth usually follows completion of three or four years of a pre-medical curriculum at an accredited college or university of the student's choice. Given satisfactory academic standing and performance on the Medical College Admission Test (MCAT), preference will be given to residents of the State of Minnesota with a selection of students also accepted from Northern Wisconsin and Northern Michigan. Character, motivation, and assessment of the applicant's ability to make adjustments, both social and psychological, necessary for the successful study of medicine will be evaluated by personal interview.



Applications for the entering class of medical students may be submitted between July 1, 1971 and March 1, 1972. The first class of this newly organized program will be matriculated in September, 1972.

Additional information and application forms may be obtained by writing:

Robert E. Carter, M.D., Dean  
Medical Education Program  
University of Minnesota, Duluth  
Duluth, Minnesota 55812

