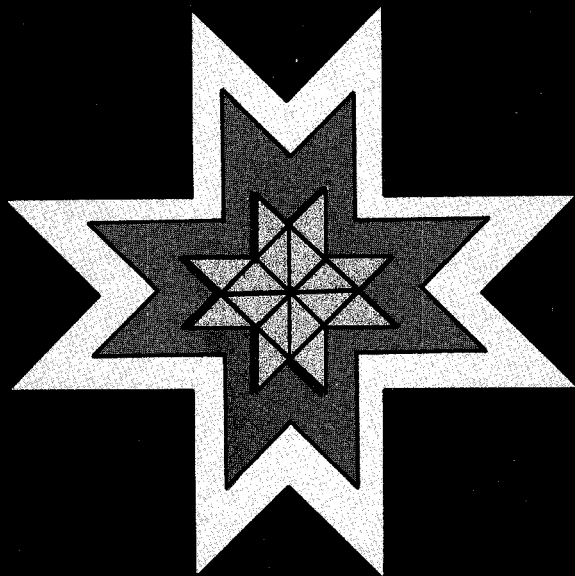


# CONTINUING EDUCATION FOR THE HEALTH PROFESSIONS

1974-1975  
Programs



MSD  
H349  
A3c  
1974/75

Health Sciences Continuing Education

 Health Sciences Center  
UNIVERSITY OF MINNESOTA

Publication of this brochure was supported in part by funds provided through a grant from Northlands Regional Medical Program, Contract No. P-121.

○ School of Dentistry ○●

Medical School ○ School of Nursing

College of Pharmacy

●○ School of Public Health ○○

College of Veterinary Medicine

*Minnesota State University*



# CONTINUING

# EDUCATION IN

# THE HEALTH SCIENCES ●○

Community Services Program ○ Dental

Hygiene Program ● Dental Assisting Program

Dietetics ○ Food Science <sup>and</sup> Nutrition ●○

Health Professionals Drug Abuse Education Project

● Interdisciplinary Programs ○

●○ Minnesota Medical Information Service

Occupational Therapy ○ Physical Therapy

Rural Physicians Associate Program



Speech Therapy



**HEALTH SCIENCES CONTINUING EDUCATION  
COORDINATING COUNCIL**

William J. Hodapp  
Coordinator and Chairman

Robert D. Jeronimus  
Dentistry

Robert W. Schwanke  
Public Health

Douglas A. Fenderson  
Medicine

Kathy J. Gunderson  
University Hospitals

Julia S. Randall  
Nursing

James O. Hanson  
Veterinary Medicine

Thomas M. McKennell  
Pharmacy

Dorothy G. Verstraete  
Allied Health

*Ex-Officio  
Members*

Brenda H. Canedy  
Community Services

Edith D. Leyasmeyer  
Area Health Education Center

Eleanor S. Fenton  
Continuing Education and Extension

452  
H349  
A30  
11/15/15

## TABLE OF CONTENTS

	Pages
University of Minnesota Health Sciences Center .....	1
Health Sciences Continuing Education .....	1
How to Use the Booklet .....	2
Meeting Your Needs .....	2
Additional Sources of Information on Courses and Programs .....	3
Dentistry .....	5
Dental Assisting .....	7
Dental Hygiene .....	7
Medicine .....	15
Nursing .....	23
Pharmacy .....	31
Public Health .....	43
Veterinary Medicine .....	57
Allied Health .....	63
Dietetics; Food Science and Nutrition; Occupational Therapy; Physical Therapy; Speech Therapy	
Other Programs .....	71
Community Services Program; Health Professionals Drug Abuse Education Project; Minnesota Medical Information Service; Rural Physicians Associate Program; Area Health Education Center	
Program Information Request Card .....	77

## **UNIVERSITY OF MINNESOTA HEALTH SCIENCES CENTER**

The Health Sciences Center at the University of Minnesota was formally identified when the Health Sciences Mission Statement and Proposed Structure and Governance was published by the Board of Regents, July 10, 1970.

Lyle French, M.D., Ph.D., became the first Vice-President for Health Sciences in February 1971. He is responsible for directing the educational, research, and service activities of the programs in dentistry, medicine, nursing, pharmacy, public health, and the University Hospitals, as well as providing for close liaison with the program in veterinary medicine.

Each discipline of the health sciences exists with one primary educational focus: the "Patient." The combination of these units into one Health Sciences Center promotes the building of a health-team approach to better patient care.

### **HEALTH SCIENCES CONTINUING EDUCATION**

The Mission Statement recognizes "the University's responsibility for maintaining and developing the competence of health professionals now in practice." The Regents encouraged "the development of inventive and imaginative programs in continuing education" and specifically state that assistance and coordination be provided by the Vice President and his staff to the health science units in their continuing education efforts.

Health sciences continuing education functions in two forms: a) each unit provides learning experiences which are designed for their own discipline; and b) interdisciplinary programs are provided when the subject area meets the learning needs of more than one discipline. The health team approach to patient care is the guide for all program development and the needs of the profession determine the subject area.

A philosophy of life-long learning and responsiveness to professional needs is now a characteristic of both "professional-in-training" and "professional-in-practice" education in the health sciences. The faculty of the health sciences is ready to assist you in meeting your educational needs as a practicing professional. If you have questions or suggestions concerning continuing education in the health sciences; if your discipline has needs which the health sciences can meet through continuing education; or if you wish to initiate communication with personnel in the health sciences please contact:

William J. Hodapp  
Health Sciences Coordinator for Continuing Education  
7208 Powell Hall  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-8973

## HOW TO USE THE BOOKLET

This booklet has been designed as a convenient, ready reference for your use. It will provide immediate information on:

- Continuing education programs in your discipline;
- Continuing education in other disciplines which may be of interest to you;
- Interdisciplinary continuing education programs;
- Names and addresses of those individuals who are responsible for programming in each of the health disciplines;
- Other services of the health sciences which are not traditionally considered as continuing education, but which may be of educational value to you or your organization.

The table of contents will facilitate your use of this booklet. Continuing education in dentistry, medicine, nursing, pharmacy, public health and veterinary medicine are listed in separate sections, while the remainder of the health disciplines are grouped in the allied health section. Heading each section is a chronological listing of programs for your ready reference. The second part of each section provides a more complete description of each planned program.

Under the title of "Other Programs" will be found additional health sciences services which have continuing education components. In this, and in all other sections, your University health sciences contact is listed by name, address, and telephone so that you may make personal inquiries or suggestions to the director of that program.

### RETURN CARDS

On the last page of the booklet you will find a return address post-card which may be used to request more information on specific programs. Use this card to request information on programs outside of your basic profession or where you do not currently receive program announcements.

### MEETING YOUR NEEDS

Any member of health sciences continuing education is ready to assist you in meeting your continuing education needs. Please call on us for assistance. The more precise you can be in identifying your needs, the more effective we can be in meeting those needs. Many units within health sciences continuing education have arranged for accreditation of their programs for your convenience. Similarly, on-campus and off-campus institutes and seminars are combined with television, telelecture, and other audio and/or visual media use to make the offerings convenient in time and accessible in distance to you.

Many health sciences continuing education offerings are programmed through the Continuing Education and Extension unit at the University of Minnesota. This unit is available to provide support services and programming assistance to individuals and organizations both within and outside of the University.

## **ADDITIONAL SOURCES OF INFORMATION ON COURSES AND PROGRAMS OF THE UNIVERSITY OF MINNESOTA**

You may wish to participate in formal coursework—either for credit or on an audit basis—as part of your personal continuing education. Bulletins which provide information and registration instructions may be obtained from a variety of sources at the University. Some of these sources are listed below. PLEASE WRITE DIRECTLY TO THESE SOURCES FOR THEIR BULLETINS.

### **HEALTH SCIENCES UNITS**

Programs and course offerings of an individual health sciences unit; e.g., dentistry, pharmacy. Write to:

Office of Admissions and Records  
4th Floor, Morrill Hall  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-2106

Indicate which bulletin you wish to receive. Include your ZIP CODE in your return address (without the zip code, your request cannot be filled).

### **EXTENSION CLASSES**

Collegiate level credit and non-credit classes offered throughout the state on a regular, periodic basis or in response to needs of citizens. Ask for the Extension Classes Bulletin. Write to:

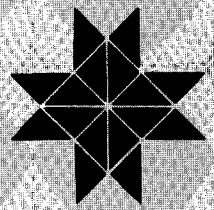
Director, Department of Extension Classes  
170 Wesbrook Hall  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-3195

### **INDEPENDENT STUDY**

Correspondence study courses for credit or non-credit at college and postgraduate levels. Ask for the Independent Study Bulletin. Write to:

Director, Department of Independent Study  
25 Wesbrook Hall  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-3256





**CONTINUING EDUCATION  
IN  
DENTISTRY  
DENTAL ASSISTING  
DENTAL HYGIENE**

Continuing Dental Education is sponsored by the School of Dentistry, Erwin M. Schaffer, Dean; and by Continuing Education and Extension, Harold A. Miller, Dean.

**Robert D. Jeronimus, D.D.S., M.S.**

**Program Director**

**Continuing Dental Education**

**School of Dentistry**

**University of Minnesota**

**Minneapolis, Minnesota 55455**

**(612) 373-7960**

For information or registration in continuing education programs in dentistry, contact Dr. Robert Jeronimus. For information or registration on dental assisting programs contact the address listed on page 13. For programs in dental hygiene, contact Ms. Avis Fellows at the address listed on page 14. For information on programs in other areas, complete and mail the form on page 77.

## Chronological Course Listings

### DENTISTRY

#### 1974

29th Annual Oral Medicine Seminar	October 18-19, 1974, December 1974
Endodontics	November 11-12, 1974
Partial Dentures in General Practice: A Participation Course	December 2-4, 1974
The Hinge Axis in General Practice	December 13-14, 1974
Pin Ledge Techniques in Crown and Bridge	December 15-16, 1974

#### 1975

29th Annual Oral Medicine Seminar	January—To be announced
Applied Preventive Dentistry	February 7-8, 1975
Hospital Dentistry	February 18-20, 1975
Dental Pharmacology	February 21, 1975
Practical Oral Rehabilitation	March 3-5, 1975
Periodontics for the General Practitioner	March 6-7, 1975
The Hinge Axis in General Practice	March 15-16, 1975
Pin Ledge Techniques in Crown and Bridge	March 20-21, 1975
Occlusion in Periodontics	April 23-25, 1975
Endodontics	May 19-20, 1975
Pediatric Dentistry	May 23-24, 1975
Advanced Clinical Periodontics	June 2 and 9, 1975
Oral Surgery	June 9-12, 1975

\*Additional courses are planned but have not been scheduled as of this printing. These will include: Electrosurgery, Laboratory Technicians, Hypertension, Blood Pressure Techniques, Four-handed Dentistry, Minor Tooth Movement, Implantology, Complete Dentures, Dental Materials, Operative Dentistry, Oral Pathology, and X-ray Techniques.

## **Chronological Course Listings**

### **DENTAL ASSISTING**

Seminar for Dental Assistants

Summer 1975

## **Chronological Course Listings**

### **DENTAL HYGIENE**

#### **1974**

Annual Fall Seminar	September 13-14, 1974
Modern Preventive Methods	September 30, 1974
Expanded Duties—Dental Hygiene Block	October 2, 1974
Expanded Duties—Dental Assisting Block	October 30, 1974
Expanded Duties—Salivary Analysis	November 27, 1974 December 4, 1974
Expanded Duties—Diet Counseling	Dates to be determined

#### **1975**

Expanded Duties—Salivary Analysis	February 12, 1975 March 13, 1975
Expanded Duties—Dental Hygiene Block	April 7, 1975
Modern Preventive Methods	April 9, 1975
Expanded Duties—Dental Assisting Block	May 5, 1975
Expanded Duties—Salivary Analysis	June 9, 1975

# **CONTINUING EDUCATION IN DENTISTRY**

## **Eligibility and Fees**

Dentists holding dental degrees from accredited schools are eligible to attend these courses. Registrants should make their own arrangements with hotels or motels for whatever lodging they desire. All courses will be held on the Minneapolis campus of the University of Minnesota, unless otherwise specified in the quarterly mailing. If you wish to apply for a reserved parking space, please enclose an additional \$1.00 per day with your total registration fee.

## **Applications**

Course dates and program content contained herein are subject to change. Final information on all courses is contained in the quarterly mailing of brochures which contain all current information and registration forms for potential registrants. Quarterly mailings are made to all dentists. Applications will be processed in the order received, and the University reserves the right to end registration for a course when the enrollment limit has been reached. In the event rescheduling of a listed course becomes necessary, all applicants will be notified of the change in sufficient time to make the necessary adjustment. Where limited registration for a course is indicated, cancellation of a registration must be submitted at least fifteen (15) days prior to the beginning of a course to be eligible for a refund. All applications should be mailed as soon as practicable to:

Director, Department of Continuing Dental Education  
Department of Conferences  
Nolte Center for Continuing Education  
University of Minnesota  
Minneapolis, Minnesota 55455

## **Continuing Education Credits**

All course offerings sponsored by the University of Minnesota School of Dentistry are creditable for relicensure for dentists licensed to practice in Minnesota. Hourly credit is assigned for each course based upon the number of contact hours each course provides. For further information regarding credit, contact the Director of Continuing Dental Education at the address listed under "Applications."

## **Dental Assisting and Dental Hygiene**

Course descriptions for Dental Assisting and Dental Hygiene programs are listed in this section following the Dentistry listings.

## Course Descriptions

### DENTISTRY

**Dent 101 29TH ANNUAL ORAL MEDICINE SEMINAR** **October 18-19, 1974**  
**December: Dates to be determined**  
**January: Dates to be determined**

"Vitreous Carbon Implants". The 29th Annual Oral Medicine Seminar focuses on a break-through in the science of dentistry. Vitreous carbon implants have undergone extensive developmental research for nearly five years. They are now available for use by the practicing dentist after an approved course is completed. This course will consist of lectures, demonstrations via video tape, a technique session where the registrant will have the opportunity to perform the procedure, and the examination of patients who have had the procedure. Additional dates in December and January to be announced.

Reg. Fee: \$80.00

**Dent 102 ENDODONTICS** **November 11-12, 1974**  
**May 19-20, 1975**

Illustrated lectures, films, and clinical demonstrations covering diagnosis, pulp capping, pulpotomy, sterile technique of opening pulp chambers, removal of pulp contents, medication of the root canal, filling sterile root canals, practical office procedures for culturing root canals, and the significance of findings, apical curettage and apicoectomy, root canal treatment of periapically involved teeth, pharmacology in root canal therapy, and the pulpless tooth as related to systemic infection. Course director is Dr. J. R. Jensen.

Fee: \$60.00

**Dent 103 PARTIAL DENTURES IN GENERAL PRACTICE: A PARTICIPATION COURSE** **December 2-4, 1974**

Designed to provide the practitioner with the principles and concepts relating to the rehabilitation of the partially edentulous mouth by means of clasp-retained removable partial dentures. Conference topics will include: diagnosis, treatment planning, principles of surveying and design, tooth modification and/or restoration. Jaw-relation records, preparation of laboratory work authorizations, insertion and prostinsertion will be discussed in detail. Participants will have the opportunity to survey casts, wax surveyed crowns, and make impressions of the partially edentulous mouth. Course director is Dr. D. G. Anderson.

Fee: \$75.00

Attendance: limited to 10

**Dent 104 THE HINGE AXIS IN GENERAL PRACTICE** **December 13-14, 1974**  
**March 15-16, 1975**

Two days will be devoted to a thorough discussion of the principles and philosophy of the use of the hinge axis as it applies to the general practice of dentistry. Lectures and demonstrations will acquaint the student with the techniques and armamentarium used in: 1) the development of good models; 2) the split cast; 3) the location of the hinge axis; 4) the transfer of the models to an adjustable articulator; and 5) construction of restorations which match the occlusion. Course director is Dr. W. O. Branstad.

Fee: \$60.00

Attendance: limited to 12

**Dent 105 PIN LEDGE TECHNIQUES IN  
CROWN AND BRIDGE**

**December 15-16, 1974  
March 20-21, 1975**

This two-day course is designed to familiarize the dentist with the instruments, techniques, and philosophies of the utilization of parallel pin retention for both single tooth restorations and for fixed bridges. Lectures and demonstrations will be utilized along with practical laboratory exercises on the part of the students. Course director is Dr. A. R. Schmidt.

Fee: \$75.00  
Attendance: limited to 10

**Dent 106 APPLIED PREVENTIVE DENTISTRY**

**February 7-8, 1975**

A comprehensive seminar centering on development of a preventive dentistry program in the dental office. The two-day course will cover current practices in the field of prevention including the basic science background for its rationale. It will include the use of the phase microscope as a tool for patient education, the use of additional training aids, and the utilization of office auxiliaries in the role of patient educators. The role of diet and nutrition as it relates to prevention will be covered. Course director is Dr. D. J. Brandstetter.

Fee: \$60.00

**Dent 107 HOSPITAL DENTISTRY**

**February 18-20, 1975**

A lecture and demonstration course to familiarize the dentist with hospital protocol. Topics for discussion will include: selection and admission of patients, hospital-dental practices, charts, pre-operative duties of the dentist, medico-legal considerations and hospital administration. Practical orientation will be covered by films, scrub and gown demonstrations, participation in key areas such as hospital rooms, operating rooms, and recovery rooms. Time will be spent in the operating room for observation and assisting in general anesthetics, patient preparation, restorative, and surgical procedures. Management and progress of patients will be followed closely. The course is under the direction of the staff of the Division of Oral Surgery. Please note that the Dental Pharmacology course will begin immediately following this course. Those who wish to, may enroll for both courses. Course director is Dr. D. E. Waite.

Fee: \$100.00  
Attendance: limited to 10

**Dent 108 DENTAL PHARMACOLOGY**

**February 21, 1975**

This one-day seminar directly follows the Hospital Dentistry course and is directed to a review of the drugs used in the dental office in order to "update" the practitioner. New drugs and methods of administration will be covered in detail. Indications and contraindications for the use of antibiotics, analgesics, narcotics, tranquilizers, etc., will be presented. Course director is Dr. N. O. Holte.

Fee: \$35.00  
Attendance: limited to 25

**Dent 109 PRACTICAL ORAL REHABILITATION March 3-5, 1975**

This course is designed to give the general dentist greater insight into the problems of complete mouth rehabilitation. Lectures and slide presentations will relate to techniques and procedures involved in extensive restorative dentistry. Students will engage in laboratory exercises in wax to wax techniques and fabricating cast gold-porcelain restorations. A study of articulators and the basic procedures necessary to proper anatomical mounting of working casts will be discussed. Close supervision of the student will be provided. Course director is Dr. R. J. Goodkind.

Fee: \$100.00  
Attendance: limited to 10

**Dent 110 PERIODONTICS FOR THE GENERAL PRACTITIONER March 6-7, 1975**

An introductory course in the field of periodontics to acquaint the general practitioner with fundamentals. Diagnosis and recognition of the incipient periodontal lesion will be stressed. Basic periodontal anatomy and histology will be reviewed followed by lectures on etiology, histopathology, treatment planning, prognosis, and the various therapeutic measures. This course, along with Occlusion in Periodontics, is a prerequisite for Advanced Clinical Periodontics. Course director is Dr. R. E. LaBelle.

Fee: \$60.00

**Dent 111 OCCLUSION IN PERIODONTICS April 23-25, 1975**

Intended for those practitioners who want to update their knowledge in the field of occlusion. Subjects to be covered are anatomy, neurology, and physiology of occlusion; traumatic occlusion, and occlusal trauma; bruxism; examination, diagnosis, and treatment planning of temporomandibular joint dysfunction syndrome; office management of occlusion problem patients; theories or philosophies of occlusion; and occlusal adjustment techniques. Demonstration and participation will be stressed. This course is a prerequisite for Advanced Clinical Periodontics to be conducted on June 2 and 9, 1975, but not restricted to those intending to enroll in that course. Course director is Dr. J. H. Butler.

Fee: \$75.00  
Attendance: limited to 20

**Dent 112 PEDIATRIC DENTISTRY May 23-24, 1975**

The objective of this course is to bring together practical applications of current research in dentistry for children. The general theme is prevention, not only by means of fluoride systems and pit and fissure sealants but also prevention of restorative failures, including esthetic restoration of fractured and hypoplastic teeth. Diagnosis and treatment of various pulpal conditions will also be presented. An understanding of the psychological components of behavior is covered in order to deal with or prevent behavior problems. The Pediatric Dentistry staff will direct the course.

Fee: \$50.00  
Attendance: limited

**Dent 113 ADVANCED CLINICAL PERIODONTICS June 2 and 9, 1975**

Enrollment for this two-day clinical course is limited to those who have participated in "Periodontics for the General Practitioner" (March 6-7, 1975) and "Occlusion in Periodontics" (April 23-25, 1975). The time will be devoted

to the rationale and techniques of roof planning, surgery and occlusal adjustment. Limitation to 10 registrants is necessary because of the close clinical supervision required. Early registration is encouraged. Course director is Dr. R. E. LaBelle, assisted by the clinical staff.

Fee: \$75.00

Attendance: limited to 10

**Dent 114 ORAL SURGERY**

**June 9-12, 1975**

Clinical practice under supervision, group conferences and films. Topics for the conferences include: instrumentation, effective operative techniques, pre-operative and post-operative care, management of complications, preparation of the mouth for dentures, impacted tooth removal, maxillary sinus complications, biopsy techniques, and the pharmacological aspects of antibiotic and anesthetic agents. Course director is Dr. D. E. Waite.

Fee: \$150.00

Attendance: limited to 12

*Also see Med 221, Med 224, Medicine section*



## Course Descriptions

### DENTAL ASSISTING

#### DA-126 SEMINAR FOR DENTAL ASSISTANTS

Summer 1975

Program to be determined. This course will generally cover the credit requirements toward recertification and reregistration for dental assistants.

For further information on this course, write or contact:

Director, Continuing Dental Education  
Department of Conferences  
Nolte Center for Continuing Education  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-3151

## Course Descriptions

### DENTAL HYGIENE

#### DH-151 ANNUAL FALL SEMINAR

September 13-14, 1974

"Pharmacology—Let's Make It Practical." A fresh approach to pharmacology, from the viewpoint of the consumers, the parent, and the dental significance of medications which patients are taking. In cooperation with the School of Pharmacy.

Fee: to be determined

#### DH-152 MODERN PREVENTIVE METHODS

September 30, 1974

April 9, 1975

A post graduate course for dental hygienists in theoretical and clinical skills (includes preventive measures and the use of curettes and sitdown working methods). Dental hygiene procedures will be performed under the supervision of the staff of the Dental Hygiene Program. Instructor: Ms. A. Fellows.

Fee: \$65.00

Enrollment: limited

#### DH-153 EXPANDED DUTIES—DENTAL HYGIENE BLOCK

October 2, 1974

April 7, 1975

Background material, laboratory exercises, and clinical experience in the duties of polishing amalgam restoration, placement and removal of periodontal dressings, removing sutures, taking oral cytology smears, and salivary analysis. Instruments and materials provided. Instructor: Ms. A. Fellows.

Fee: \$50.00

Enrollment: limited

#### DH-154 EXPANDED DUTIES—DENTAL ASSISTING BLOCK

October 30, 1974

May 5, 1975

Background material, laboratory exercises, and clinical experiences in the duties of making impressions, pouring up and trimming models, placement and removal of rubber dams. Instruments, materials and manuals provided. Instructor: Ms. A. Fellows.

Fee: \$55.00

Enrollment: limited

**DH-155 EXPANDED DUTIES—SALIVARY  
ANALYSIS**

**November 27, 1974  
December 4, 1974  
February 12, 1975  
March 13, 1975  
June 9, 1975**

This special one evening session is provided for those hygienists who have completed the Dental Hygiene Block with the exception of this particular duty. Instruments and materials provided. Instructor: Ms. A. Fellows.

Fee: to be determined  
Enrollment: limited

**DH-156 EXPANDED DUTIES—DIET  
COUNSELING**

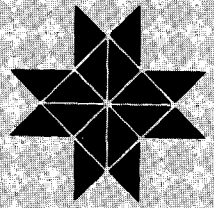
**Dates to be determined**

This course is designed for the dental hygienist to correlate the basics of nutrition, the theories of dental disease, and the processes of counseling into a working model for the diet counseling of dental patients. Instructor: Ms. P. Sander.

Fee: \$20.00  
Enrollment: limited

All courses will be held in Health Sciences Building, Unit A. For further information on these courses, write or contact:

Avis Fellows, Instructor  
Coordinator of Continuing Education  
Program in Dental Hygiene  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 376-4104



CONTINUING EDUCATION  
IN  
MEDICINE

Continuing Medical Education is sponsored by the Medical School, N. L. Gault, Jr., Dean; and by Continuing Education and Extension, Harold A. Miller, Dean.

**Douglas A. Fenderson, PhD.**

**Director**

**Office of Continuing Medical Education**

**1350 Mayo Memorial**

**University of Minnesota**

**Minneapolis, Minnesota 55455**

**(612) 373-8012, 8089**

For information or registration in programs in continuing medical education, contact Dr. Douglas Fenderson. For information on programs in other areas, complete and mail the form on page 77.

## Chronological Course Listings

### 1974

Pain Syndromes	September 6-7, 1974
Radiology	September 9-13, 1974
Fourth Annual Course in Management of Cerebral Palsy	September 9-14, 1974
Advances in Obstetrics and Gynecology	September 18-20, 1974
Internal Medicine Review	October 1-5, 1974
Computers and Technology in Clinical Medicine	October 16-17, 1974
Neurologic Aspects of Learning Disabilities for Professionals in Education	October 18, 1974
Minnesota Medical Alumni	October 18-19, 1974
Principles of Colon and Rectal Surgery	November 6-8, 1974
Refraction for the Non-Ophthalmologist	November 13-15, 1974
Topics in Physicians Accountability, Part II	November 13-16, 1974
Management of Problems in Human Sexuality	Dates to be determined

### 1975

Pediatrics	February 3-5, 1975
Pulmonary Disease	February 13-14, 1975
Perinatology	February 22, 1975
Practical Otolaryngology	February 19-21, 1975
Psychiatry for the Family Physician	March 20-22, 1975
Cancer: Practical and Theoretical Aspects of Diagnosis	April 23-25, 1975
Ophthalmology	May 5-6, 1975
Clinical Dermatology for Family Practitioners	May 15-17, 1975
Clinical Genetics	May 1975 Date to be determined
Surgery	May 19-21, 1975
Current Concepts in Radiation Therapy	May 28-30, 1975
Fundamentals of Clinical Hypnosis	June 5-7, 1975

\*Additional courses will be announced. These may include Minor Surgery, Hypertension, Infectious Disease, Emergency Medicine and Recent Advances in Applied Laboratory Medicine and Pathology. For further information, call the Director, Office of Continuing Medical Education.

## **CONTINUING EDUCATION IN MEDICINE**

The formal programs in continuing medical education are listed on these pages. Further information on these programs may be obtained by writing to the Office of Continuing Medical Education at the address listed on the first page of this section. Specific mailings will also be made for individual courses; more detailed information on courses presently listed without the fee, course description, and/or attendance limit will be available at that time.

All courses will be held on the Minneapolis campus of the University of Minnesota, unless otherwise specified in the mailings for the individual courses.

Additional opportunities for personalized continuing education of physicians are available through the various departments of the Medical School. (For physicians interested in the Rural Physicians Associate Program, see the Section on Continuing Education/Other Programs.) Physicians who have interest in a particular field may participate in many of the departmental programs which occur regularly. For more information, please contact the Office of Continuing Medical Education.

### **Course Descriptions**

#### **Med-201 PAIN SYNDROMES**

**September 6-7, 1974**

Problems with acute and chronic pain are often encountered in primary medical practice. Recent scientific and clinical advances in identifying and treating such conditions in the context of office practice will be presented. Sponsored by the Department of Neurosurgery.

Fee: to be determined

#### **Med-202 RADIOLOGY**

**September 9-13, 1974**

This is the thirty-seventh annual continuation course in Radiology—the longest such series in the country. The subject this year is diagnostic radiology of the gastrointestinal tract. Designed especially for specialists in radiology, but surgeons and other physicians may find the course of value. Sponsored by the Department of Radiology.

Fee: \$175.00

#### **Med-203 FOURTH ANNUAL COURSE IN MANAGEMENT OF CEREBRAL PALSY**

**September 9-14, 1974**

An intensive course designed for physicians and other professionals who have a serious interest in the habilitation of patients with cerebral palsy. Subject matter will include normal and disturbed motor development, identification of the reflex motor activity seen in cerebral palsy, evaluation of intellectual function and communicative problems, prescription of therapy and indications for evaluation of surgical procedures. Particular attention will be paid to consideration of the therapeutic situation as a learning

experience, and the application of the principles of learning to the training of motor activity as well as behavior. Sponsored by the Department of Physical Medicine and Rehabilitation.

Fee: \$150.00

**Med-204 ADVANCES IN OBSTETRICS  
AND GYNECOLOGY**

**September 18-20, 1974**

Designed for family practitioners, internists, and obstetrician-gynecologists, the sessions will emphasize the latest methods of fertility regulation, evaluation and management of gynecologic-endocrinologic abnormalities, diagnosis and treatment of gynecologic oncology and will evaluate present-day prenatal care and fetal monitoring. Discussion sessions available. An outstanding guest faculty will participate in the program. Sponsored by the Department of Obstetrics and Gynecology.

Fee: to be determined  
Attendance: limited to 150

**Med-205 INTERNAL MEDICINE REVIEW**

**October 1-5, 1974**

Specialists in Internal Medicine preparing for the American College of Physicians' voluntary recertification examination will find this course designed to assist them. Systematic coverage of topics included in the recertification syllabus and bibliography will be presented. Sponsored by the Department of Medicine.

Fee: \$100.00

**Med-206 COMPUTERS AND TECHNOLOGY IN  
CLINICAL MEDICINE**

**October 16-17, 1974**

Practicing physicians may be interested in computer and related applications that are available now for business, clinical and educational applications in office practice. The course will present some of the most recent work which may substantially affect practice in the future. Sponsored by the Division of Health Computer Sciences.

Fee: to be determined

**Med-207 NEUROLOGIC ASPECTS OF  
LEARNING DISABILITIES FOR  
PROFESSIONALS IN EDUCATION**

**October 18, 1974**

This course, intended for professionals engaged in primary and secondary education, is designed to present the neurological aspects of problems manifested by children with learning disabilities. The course features discussion of nervous system function in relation to learning, a brief discussion of the neurological examination, and the medical history of children with learning disability, as well as the minimal brain dysfunction syndrome. Use of the electroencephalogram, and the evaluation and management of hyperactivity and distractibility, including the use of drugs, will be covered. Participants will gain a better understanding of the medical and neurological problems attendant to learning disabilities and minimal brain dysfunction. Sponsored by the Division of Pediatric Neurology.

Fee: to be determined

**Med-208 MINNESOTA MEDICAL ALUMNI**

**October 18-19, 1974**

Sponsored by the Minnesota Alumni Association.

**Med-209 PRINCIPLES OF COLON AND  
RECTAL SURGERY**

**November 6-8, 1974**

Presented for family physicians and general surgeons who are interested in inflammatory and neoplastic disease of the lower bowel. The common conditions involving the anorectum such as hemorrhoids, fistulae and fissures will be discussed. Newer methods of diagnosis and surgical approaches, such as reservoir ileostomy and advancement flap techniques will be discussed. Fibercolonoscopy, fibercolonoscopic techniques and results of treatment will be covered. Optional operative clinics for anorectal surgery can be arranged. Sponsored by the Division of Colon and Rectal Surgery.

Fee: to be determined  
Attendance: limited to 100

**Med-210 REFRACTION FOR THE  
NON-OPHTHALMOLOGIST**

**November 13-15, 1974**

This course in refraction emphasizes the practical application of the information presented in lecture and dialogue techniques. The registration is limited to six so that individual attention may be given each applicant. The course is under the direction of Dr. G. T. Tani, Clinical Associate Professor and Refractionist, Department of Ophthalmology.

Fee: to be determined  
Attendance: limited to 6

**Med-211 TOPICS IN PHYSICIAN  
ACCOUNTABILITY, PART II**

**November 13-16, 1974**

Lectures, panel discussions and group seminars on a variety of topics in the category of accountability in health care. Reports on the present status of recertification, methods of recredentialing, current trends in the assignment of hospital recredentialing, current standards of the Joint Commission on Accreditation of Hospitals, and the status of clinic accreditation. The expectations of third party payors such as medicaid and medicare for accountability will be examined along with the implications of national health insurance. Emerging organizational forms which affect accountability such as foundations for medical care and HMO's will be discussed, as well as the updated status of PSRO legislation and its anticipated implementation. Sessions will be conducted on utilization review, the implementation of the Quality Assurance Program of the American Hospital Association, and the performance of the process-oriented medical audit. Dr. W. Fifer will coordinate the program which will include a distinguished faculty. Sponsored by the Department of Medicine.

Fee: \$100.00

**Med-212 MANAGEMENT OF PROBLEMS IN  
HUMAN SEXUALITY**

**Dates to be determined**

An important aspect of clinical practice for many physicians has to do with problems of human sexuality. The Program in Human Sexuality offers short courses nearly every month dealing with information and attitudes in this important area. Those interested should contact Dr. R. Chilgren, Director, Program in Human Sexuality, the Medical School, Research East, 2630 University Avenue SE, 55455.

**Med-213 PEDIATRICS**

**February 3-5, 1975**

Sponsored by the Department of Pediatrics.

**Med-214 PULMONARY DISEASE****February 13-14, 1975**

Sponsored by the Department of Medicine.

**Med-215 PERINATOLOGY****February 22, 1975**

Physicians who provide care through the pregnancy cycle and for newborns will find this review of the important problems of maternal care of value. Topics include fetal distress, respiratory distress of newborns and the management of high-risk infants. Sponsored by the Department of Obstetrics and Gynecology.

Fee: to be determined

**Med-216 PRACTICAL OTOLARYNGOLOGY****February 19-21, 1975**

This course is designed to provide practical information on the management of ear, nose, and throat problems. Emphasis will be placed on history, physical diagnosis, and techniques found in otolaryngology. The first two days will consist of lectures, discussions, demonstrations, and problem-solving situations. An elective third day will provide an opportunity for a preceptorship in the clinic and operating room with a practicing otolaryngologist. Sponsored by the Department of Otolaryngology.

Fee: to be determined

**Med-217 PSYCHIATRY FOR THE FAMILY PHYSICIAN****March 20-22, 1975**

Sponsored by the Departments of Psychiatry and Family Practice.

**Med-218 CANCER: PRACTICAL AND THEORETICAL ASPECTS OF DIAGNOSIS****April 23-25, 1975**

Sponsored by the Department of Laboratory Medicine and Pathology.

**Med-219 OPHTHALMOLOGY****May 5-6, 1975**

This is an annual course for specialists in ophthalmology. Each year a single topic is examined in depth. The topic for 1975 has yet to be determined. Sponsored by the Department of Ophthalmology.

Fee: to be determined

**Med-220 CLINICAL DERMATOLOGY FOR FAMILY PRACTITIONERS****May 15-17, 1975**

This in-depth approach to common and current skin problems stresses diagnosis and treatment. Ample time is available for questions and discussion. This includes luncheon round-tables, small group discussions and specially arranged clinical demonstrations. One session is devoted to the latest developments on applications in therapy. Sponsored by the Department of Dermatology.

Fee: to be determined

**Med-221 CLINICAL GENETICS****May 1975  
Dates to be determined**

This course is open to the several health professions who have clinical responsibilities with patient problems of genetic origins. The main core of material is medical, but workshop sessions provide for a wide range of



choice, including topics of particular interest to dentists, nurses and nutritionists. Sponsored by the Medical Genetics Program.

Fee: to be determined

**Med-222 SURGERY**

**May 19-21, 1975**

Surgical specialists from every state come to this annual course. Each year a single subject is treated in depth. The topic for 1975 will be announced by September 1974. Sponsored by the Department of Surgery.

Fee: to be determined

**Med-223 CURRENT CONCEPTS IN RADIATION THERAPY**

**May 28-30, 1975**

A course for specialists in radiation therapy, an in-depth review and updating of skills and knowledge is presented. Sponsored by the Department of Therapeutic Radiology.

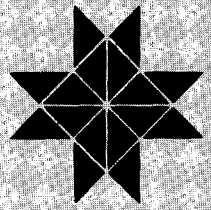
Fee: to be determined

**Med-224 FUNDAMENTALS OF CLINICAL HYPNOSIS**

**June 5-7, 1975**

The principles of hypnosis and their application to clinical, medical and dental problems is taught. Participants view demonstrations and may practice the techniques. Data on the results of application of these techniques are presented. Opportunity is provided for discussion of individual interests and questions. Sponsored by the Departments of Psychiatry, Family Practice and the American Society of Clinical Hypnosis.

Fee: to be determined



CONTINUING EDUCATION  
IN  
NURSING

Continuing Education in Nursing is sponsored by the School of Nursing,  
Isabel Harris, Dean.

**Julia S. Randall, R.N.**  
**Chairperson**  
**Continuing Education**  
**School of Nursing**  
**University of Minnesota**  
**Minneapolis, Minnesota 55455**  
**(612) 373-3462**

For information or registration in continuing education programs in nursing, contact Ms. Julia Randall. For information on programs in other areas, complete and mail the form on page 77.

## Chronological Course Listings

### 1974

Introduction to Assessing Health Status of Individuals	Fall Quarter
Nursing Relating to Patients with Cancer	October 1, 8, 15, 22, 29, 1974 Central and Southern Sites
Emotional Aspects in Nursing Care	November 1, 1974 Mora Area
Nursing Relating to Patients with Cancer	November 5, 12, 19, 26, December 3, 1974 Central and Northern Sites
Nursing Techniques in Respiratory Care	December 6, 1974 Duluth Area

### 1975

Geriatrics and Nursing	January 14, 21, 28 February 4, 11, 1975 Central and Northern Sites
Geriatrics and Nursing	February 18, 25 March 4, 11, 18, 1975 Central and Southern Sites
Pain: Acute and Chronic	February 28, 1975 Twin Cities Area
Remotivation Therapy for Geriatric Patients	March 21, 1975 Moorhead Area
Pediatrics and Nursing	April 1, 8, 15, 22, 29, 1975 Central and Northern Sites
Remotivation Therapy for Geriatric Patients	April 11, 1975 Twin Cities Area
School of Nursing Alumni Day	April 28, 1975 Twin Cities Area
Remotivation Therapy for Geriatric Patients	May 2, 1975 St. James Area
Pediatrics and Nursing	May 6, 13, 20, 27, June 3, 1975 Central and Southern Sites
Play as a Diagnostic and Therapeutic Tool	May 30, 1975 Twin Cities Area

Diabetes: Current Nursing  
Care Concepts

Date and location  
to be determined

Drug Abuse Specialty Seminar

Date and location  
to be determined

Emergency Care for Nurses

Date and location  
to be determined

## CONTINUING EDUCATION IN NURSING

### CONTINUING EDUCATION UNITS

The University of Minnesota School of Nursing grants the Continuing Education Unit (CEU) for its continuing education offerings. One Continuing Education Unit represents ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. A record of continuing education units earned is kept by the University and is available on request of the individual. The CEU replaces the certificate credits previously attached to continuing education offerings from the University of Minnesota School of Nursing. It should be noted that the CEU is not a credit. Conversion of CEU's to credit is possible at some educational institutions but each of these institutions has its own policy and procedure for such conversions. At the present time, the University of Minnesota School of Nursing does not convert CEU's to academic credit.

### TELELECTURE SERIES

These programs are presented via amplified telephone transmission to selected sites throughout the state. The presentations frequently utilize projected slides, and always feature an open question and answer period where participants may "talk back" to the lecturer and ask appropriate questions.

Specific content for each of the telelecture offerings will be described in a program brochure. This brochure will also list the precise site within the community where the program may be attended. Brochures will be available approximately four weeks prior to the first program.

To receive a brochure for a particular program, call or write Julia S. Randall at the address listed on the first page of this section.

Due to the numerous requests to have telelecture sites in additional locations, the School of Nursing has increased the total number from 21 for 1973-74, to 37 for 1974-75. However, even this increase did not permit affirmative action on all requests. The criteria used in making the decision included the following factors: (1) Evidence of local interest; (2) Number of potential participants; (3) Distance to be traveled to reach site; (4) Transportation routes; (5) Availability of other educational opportunities in the area; (6) Review of enrollment in past telelecture offerings. The preceding criteria will be used each year in considering sites for the coming year. There will be no additions to the number of locations during year 1974-75. Since the programs must be self-supporting, cancellation will be considered if *pre-registration* at any one location is below 15.

#### Telelecture Sites

##### *Central and Northern Minnesota Sites*

Alexandria, Bemidji, Brainerd, Cambridge, Crookston, Detroit Lakes,

Duluth, Ely, Fargo-Moorhead, Grand Rapids, Hallock, Hibbing, International Falls, Minneapolis, Roseau, St. Cloud, Thief River Falls, Wadena.

*Central and Southern Minnesota Sites*

Austin, Buffalo, Morris, Mankato, Marshall, Minneapolis, Northfield, Red Wing, Rochester, St. James, St. Paul, Shakopee, Stillwater, Waconia, Willmar, Winona, Worthington, Veterans Administration Hospital—Minneapolis.

## Course Descriptions

### TELELECTURE PROGRAMS

**Nurs 301 NURSING RELATING TO PATIENTS WITH CANCER**      **October 1, 8, 15, 22, 29, 1974**  
Central and Southern Sites  
**November 5, 12, 19, 26**  
**December 3, 1974**  
Central and Northern Sites

Information concerning nursing measures to assist cancer patients and their families with psychological, physiological, and sociological adjustments will be presented in this series. Tuesdays: 7:00 to 9:00 p.m.

Fee: to be determined

**Nurs 302 GERIATRICS AND NURSING**      **January 14, 21, 28**  
**February 4, 11, 1975**  
Central and Northern Sites  
**February 18, 25**  
**March 4, 11, 18, 1975**  
Central and Southern Sites

This series will present nursing concepts in the care of older people. Planning of realistic goals and purposeful activities will be included, as well as sociological changes affecting care of the aged. Tuesdays: 7:00 to 9:00 p.m.

Fee: to be determined

**Nurs 303 PEDIATRICS AND NURSING**      **April 1, 8, 15, 22, 29, 1975**  
Central and Northern Sites  
**May 6, 13, 20, 27, June 3, 1975**  
Central and Southern Sites

A review of normal growth and development, focusing on the special needs of children during illness. Tuesdays: 7:00 to 9:00 p.m.

Fee: to be determined

### WORKSHOPS

**Nurs 304 INTRODUCTION TO ASSESSING HEALTH STATUS OF INDIVIDUALS**      **Fall Quarter**  
Twin Cities Area

Designed to assist nurses to improve their nursing assessment skills. It will include detailed orientation in obtaining a valid patient history and doing a

physical examination. Will not include supervised clinical practice, but it is hoped that each student will be able to obtain practice in her work-study. Three credits. Thursdays: 6:00 to 8:20 p.m.

Fee: to be determined

**Nurs 305 EMOTIONAL ASPECTS IN NURSING CARE**

**November 1, 1974**  
Mora Area

A workshop dealing with personal and situational factors, and the interaction between them. Discussion will focus on understanding the concepts of anxiety and hostility and gaining insight into coping mechanisms available to nurses.

Fee: to be determined

**Nurs 306 NURSING TECHNIQUES IN RESPIRATORY CARE**

**December 6, 1974**  
Duluth Area

Specific skills will be presented in this one-day workshop. The content will be an elaboration of the concepts presented in the telelecture series on respiratory inadequacies.

Fee: to be determined

**Nurs 307 PAIN: ACUTE AND CHRONIC**

**February 28, 1975**  
Twin Cities Area

This workshop will discuss concepts helpful to nurses in the understanding and treatment of patients experiencing acute and /or chronic pain.

Fee: to be determined

**Nurs 308 REMOTIVATION THERAPY FOR GERIATRIC PATIENTS**

**March 21, 1975**  
Moorhead Area  
**April 11, 1975**  
Twin Cities Area  
**May 2, 1975**  
St. James Area

This workshop will focus on measures which will promote meaningful activities for older persons. Nursing assessment and the establishment of realistic goals will be highlighted.

Fee: to be determined

**Nurs 309 PLAY AS A DIAGNOSTIC AND THERAPEUTIC TOOL**

**May 9, 1975**  
Duluth Area  
**May 30, 1975**  
Twin Cities Area

Information on the diagnostic and therapeutic use of play in the care of children in the home, hospitals, out-patient areas and other community settings.

Fee: to be determined

**Nurs 310 DIABETES: CURRENT NURSING CARE CONCEPTS**

**Date and location to be determined**

A series of five videotapes are being developed for presentation to nurses. Tapes are to be ready by April 1, 1975. Details regarding method of presentation and scheduling to be announced later.

Fee: to be determined

**Nurs 311 DRUG ABUSE SPECIALTY SEMINAR**

**Date and location to be determined**

The School of Nursing is working with the Health Professionals Drug Abuse Education Project personnel to develop a one or two day seminar for nurses and other health professionals. Specific objectives and information regarding the program will be announced at a later date.

Fee: to be determined

**Nurs 312 EMERGENCY CARE FOR NURSES**

**Date and location to be determined**

The Nursing Council of the University of Minnesota, with representatives from the School of Public Health Nursing, the University Hospitals Department of Nursing, and the School of Nursing, is developing a course in emergency care for nurses. The program will include theory and practice in an active emergency care setting and will involve full-time study. Registration will be limited. Information about the program will be distributed when available.

Fee: to be determined

**SPECIAL EVENTS**

**Nurs 313 SCHOOL OF NURSING ALUMNI DAY**

**April 28, 1975  
Twin Cities Area**

**DIAL ACCESS TAPES FOR NURSES**

For additional information, see page 73.

**WHERE TO CALL**

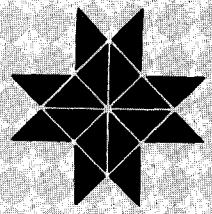
Minneapolis-St. Paul ..... 373-1855  
All other areas of Minnesota (toll free) ..... 1-800-552-7210

**HOURS OF SERVICE**

8 a.m. to 11 p.m., Monday through Friday  
10 a.m. to 8 p.m., Saturday and Sunday

*Many programs which may be of assistance to nurses are listed in other sections of this brochure. Therefore, nurses are encouraged to read through all sections of this bulletin for information on other courses and workshops which may be helpful and which they may wish to attend.*





**CONTINUING EDUCATION  
IN  
PHARMACY**

Continuing Pharmacy Education is sponsored by the College of Pharmacy, Lawrence C. Weaver, Dean; and by Continuing Education and Extension, Harold A. Miller, Dean.

**Thomas M. McKennell**

**Cynthia Foster**

**Director**

**Program Assistant**

**Continuing Pharmacy Education**

**Department of Conferences**

**College of Pharmacy**

**Continuing Education and Extension**

**109 Appleby Hall**

**University of Minnesota**

**Minneapolis, Minnesota 55455**

**(612) 373-2197**

For information or registration in continuing education programs in pharmacy, contact either Mr. Thomas McKennell or Ms. Cynthia Foster. For information on programs in other areas, complete and mail the form on page 77.

## Chronological Course Listings

### 1974

Practical Dermatology	September 7, 8, 1974 International Falls
Conference on Modern Pharmacy Management	September 21-22, 1974
Practical Dermatology	September 28, 29, 1974 Thief River Falls
Practical Dermatology	October 1, 8, 15, 22, 29, 1974 Twin Cities
Practical Dermatology	October 2, 9, 16, 23, 30, 1974 Twin Cities
Practical Dermatology	October 3, 10, 17, 24, 31, 1974 Twin Cities
Conference on Non-Prescription Medication	October 5-6, 1974 Bloomington
Practical Dermatology	November 5, 12, 19, 26, 1974 December 3, 1974 Morris
Introduction to Clinical Pharmacy	October 12-13, 1974
Practical Dermatology	October 15, 22, 29 November 5, 12, 1974 Winona
Program in Applied Biopharmaceutics and Pharmacokinetics	October 19, 1974 Minneapolis
Practical Dermatology	October 22, 29 November 5, 12, 19, 1974 Detroit Lakes
Seminar for Area D Pharmacists	October 27, 1974
Lectures on Pharmacist/Nursing Home Relationships	November 6, 13, 20, 27 December 4, 11, 1974

### 1975

Conference In Hawaii: An Approach to Community Clinical Practice	January 6-15, 1975
Cardiovascular System: Physiology, Disorders and Treatment	January 7, 14, 21, 28 February 4, 1975 Twin Cities

Cardiovascular System: Physiology, Disorders and Treatment	January 8, 15, 22, 29 February 5, 1975 Twin Cities
Cardiovascular System: Physiology, Disorders and Treatment	January 9, 16, 23, 30 February 6, 1975 Twin Cities
Workshop on Care and Treatment of the Diabetic	January 11-12, 1975 Twin Cities Campus
Cardiovascular System: Physiology, Disorders and Treatment	January 21, 28 February 4, 11, 18, 1975 Duluth
Cardiovascular System: Physiology, Disorders and Treatment	January 28 February 4, 11, 18, 25, 1975 Rochester
Cardiovascular System: Physiology, Disorders and Treatment	February 4, 11, 18, 25 March 4, 1975 Mankato
Cardiovascular System: Physiology, Disorders and Treatment	February 26 March 5, 12, 19, 26, 1975 Worthington
Workshop on Care and Treatment of the Diabetic	March 1-2, 1975 Alexandria
Cardiovascular System: Physiology, Disorders and Treatment	March 12, 19, 26 April 2, 9, 1975 Willmar
Cardiovascular System: Physiology, Disorders and Treatment	March 18, 25 April 1, 8, 15, 1975 Hutchinson
Cardiovascular System: Physiology, Disorders and Treatment	March 25 April 1, 8, 15, 22, 1975 Fargo-Moorhead
Seminar on Leadership Training for Pharmacists	April 9, 16, 23, 30 May 7, 14, 1975
Cardiovascular System: Physiology, Disorders and Treatment	April 8, 15, 22, 29 May 6, 1975 Hibbing
Conference on Non-Prescription Medication	April 13, 1975 St. Cloud

## CONTINUING EDUCATION IN PHARMACY

Specific mailings will be made for individual courses; more detailed information on courses presently listed without the fee or specific site will be available at that time. All courses will be held on the Minneapolis campus of the University of Minnesota unless otherwise indicated.

### **Mandatory Continuing Education for Pharmacists**

At the 1973 session of the Minnesota legislature, an act was passed which requires pharmacists to participate in continuing education programs. Programs described in this section will carry the appropriate amount of continuing education credit, unless otherwise indicated.

### **Course Descriptions**

#### **Phar 401 TELEVISION LECTURE SERIES #7— PRACTICAL DERMATOLOGY**

The seventh pharmacy television lecture series comprised of five one-hour tapes, was introduced during the '73-'74 season and now will be presented at a number of additional sites throughout the state. The subject for the learning programs is practical dermatology, and the resource person is Dr. William Gentry, of the Department of Dermatology, Medical School, University of Minnesota. After the showing of each tape, there will be a resource person present who will answer questions and lead a discussion on the subject.

The program is designed for pharmacists in both hospital and community practice, as well as nurses and others who must care for the patient with a dermatological problem. The course includes a study of dermatitis, acne, psoriasis, cutaneous infections, drug eruptions, dry skin, insect bites and burns. New and unusual therapies will be studied.

The objectives of the program are to familiarize participants with the more common dermatoses clinically, and to understand the pathophysiological processes operating in these diseases. Participants will be assisted in recommending therapy, and will become aware when a physician should be consulted. The rationale for therapy given by dermatologists will also be studied. Course fee includes the lectures, discussions, notebook, and mimeographed outlines and materials.

This program has been approved for twelve hours of C.E. credit (1.2 C.E.U.'s).

Fee: \$25.00 for the  
series of five  
programs

TELEVISION LECTURE SERIES #7

Fall, 1974

PLACE	LOCAL COORDINATOR(S)	SITE	TIME	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
International Falls	Steven A. Kozak		*	7, 8			
Thief River Falls	Rick Contos	Vo-Tech School	*	28, 29			
Twin Cities	Thomas McKennell	#1—Mpls Campus	8:00 pm		1, 8, 15, 22, 29		
Twin Cities	Thomas McKennell	#2—Mpls Campus	8:00 pm		2, 9, 16, 23, 30		
Twin Cities	Thomas McKennell	#3—Mpls Campus	8:00 pm		3, 10, 17, 24, 31		
Winona	Richard E. Lindseth	Winona Community College	8:00 pm		15, 22, 29	5, 12	
Detroit Lakes	Ronald J. Smet	Vo-Tech School	8:00 pm		22, 29	5, 12, 19	
Morris	Carl O. Benson	U of M Morris	8:00 pm			5, 12, 19, 26	3

\* Saturday-Sunday; times not yet set.

TELEVISION LEARNING SERIES #8

Winter-Spring, 1975

36

PLACE	LOCAL COORDINATOR(S)	SITE	TIME	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Twin Cities†	Paul Grussing	Mpls Campus— #1	8:00 pm	7, 14, 21, 28	4			
Twin Cities†	William Hodapp	Mpls Campus— #2	8:00 pm	8, 15, 22, 29	5			
Twin Cities†	Hugh Kabat	Mpls Campus— #3	8:00 pm	9, 16, 23, 30	6			
Duluth†	Craig Witchall	U of M Duluth	8:00 pm	21, 28	4, 11, 18			
Rochester†	Ron Hartmann Joe Kostick	Roch. Methodist Hospital	8:00 pm	28	4, 11, 18, 25			
Mankato†	Robert Reutzel	Mankato State College	8:00 pm		4, 11, 18, 25	4		
Worthington	Warren Gordon	Worthington Com. College	8:00 pm		26	5, 12, 19, 26		
Willmar	Lois Birk	Willmar Community College	8:00 pm			12, 19, 26	2, 9	
Hutchinson	Rollis Balke	Vo-Tech Inst.	8:00 pm			18, 25	1, 8, 15	
Fargo- Moorhead*	Joel Nelson	College of Pharm. NDSU	8:00 pm			25	1, 8, 15, 22	
Hibbing	Mario Rosatti	Hibbing Com. College	8:00 pm				8, 15, 22, 29	6

\*This program is jointly sponsored by the College of Pharmacy, North Dakota State University and the College of Pharmacy, University of Minnesota.

T.V. Series #8 will be presented in the Fall, 1975 at the following sites: Alexandria, Austin, Bemidji, Brainerd, Detroit Lakes, Fairmont, Fergus Falls, International Falls, Marshall, Morris, St. Cloud, Thief River Falls and Winona.

Further information relating to dates and program sites will be provided closer to the events.

†The State Board has stated that pharmacists may use C.E. credit hours earned during the period from January 1, 1975, to March 4, 1975, for either the reporting period that ends on March 4, 1975, or for the period that begins on the same date.



**Phar 405 INTRODUCTION TO  
CLINICAL PHARMACY:  
A SEMINAR FOR  
HOSPITAL PHARMACISTS**

**October 12-13, 1974**  
RAMADA INN, Arden Hills

This seminar is designed for hospital pharmacists who feel a need to learn the principles and procedures involved in clinical pharmacy. In addition, participants will also study interprofessional relationships and strategies for the implementation of new roles.

Fee: to be determined

**Phar 406 PROGRAM IN APPLIED  
BIOPHARMACEUTICS AND  
PHARMACOKINETICS**

**October 19, 1974**  
Minneapolis

This program is designed to provide a practical introduction to modern drug therapy based on biopharmaceutical principles. The kinetics of drug absorption, distribution, and elimination will be discussed. Participants will be able to discuss drugs, their quality and dosage form more knowledgeably.

The program is part of a homecoming program jointly sponsored by the Alumni Association and the College of Pharmacy, and will be held on Saturday morning.

Fee: to be determined

**Phar 407 SEMINAR FOR AREA D  
PHARMACISTS**

**October 27, 1974**  
St. John's University  
Science Center Auditorium

In cooperation with Central Minnesota A.H.E.C., the College will present a learning experience for the pharmacists of Central Minnesota. More details will be provided in brochures being sent to the pharmacists in this area.

Fee: to be determined

**Phar 408 LECTURES ON PHARMACIST/  
NURSING HOME RELATIONSHIPS**

**November 6, 13, 20, 27  
December 4, 11, 1974**

This series of lectures is directed to pharmacists who provide professional services to nursing homes and other health care facilities, and who must relate with existing systems within these institutions. Inservice training activities, regulations and requirements, patient care and benefit, and operational procedures of intermediate and skilled care facilities will be studied. Gerontology and the effects of institutionalization on the elderly will be emphasized.

The course will be given by University faculty and will be held in Appleby Hall (College of Pharmacy) at 8:00 p.m. on Wednesdays.

The enrollment will be limited in order to provide a good interaction between instructors and participants.

Twelve hours of C.E. credit will be sought from the State Board of Pharmacy.

Fee: to be determined

**Phar 409 CONFERENCE IN HAWAII:  
AN APPROACH TO COMMUNITY  
CLINICAL PRACTICE**

**January 6-15, 1975**

In cooperation with the School of Dentistry, the College of Pharmacy will present a conference which will stress the clinical pharmacy concepts as they relate to community practice.

Fee: to be determined



**Phar 410 WORKSHOP ON CARE AND  
TREATMENT OF THE DIABETIC**

**January 11-12, 1975**  
Twin Cities Campus  
**March 1-2, 1975**  
Alexandria

This program, presented in cooperation with the Diabetes Education Center, St. Louis Park, is designed for pharmacists and other health professionals. It presents a clinical approach to this disorder. Participants will study both acute and long-term complications, the role of diet in the management of this disorder, the medications used in the treatment of the diabetic, pattern control, the role of exercise, and psychological adjustment to diabetes. The pharmacist's role in patient education in the community will be studied. Participants will perform some of the laboratory procedures.

Participants in this workshop will be expected to have completed study of the programmed instruction text, "Care and Treatment of the Diabetic," described elsewhere (see page 41).

Fee: \$30.00

**Phar 411 SEMINAR ON LEADERSHIP  
TRAINING FOR PHARMACISTS**

**April 9, 16, 23, 30**  
**May 7, 14, 1975**

This program is jointly sponsored by the Minnesota State Pharmaceutical Association and the College of Pharmacy, and is designed to lead to a number of learning outcomes which will enable participants to accept more responsibility in voluntary groups, and civic and professional organizations. Areas that will be studied include: leadership styles and behavior; decision-making processes; management of stressful situations; and how interpersonal relations affect the achievement of stated goals.

The seminar, presented by University faculty, is recommended for those seeking to develop leadership skills. It will be held in the College of Pharmacy at 8:00 p.m. on Wednesdays. Because of the learning format, the size of the group will be limited and early registration is recommended.

No C.E. credit is being obtained for this program.

Fee: to be determined

**AUDIO CASSETTE PROGRAMS**

Continuing Education by audio cassette is especially directed to individual or small group study, and is most applicable to those who wish to study on their own or who are prevented from participating in planned seminars and conferences.

The cassette tapes are packaged in a holder notebook, which also includes lecture outlines, visual aids, self-check tests, and a final examination. For those wishing to study in a group, rather than individually, one complete set may be ordered, with the remainder of the group members ordering study sets at half-price, which contain all materials except the tapes. Those who complete the final examination will receive the appropriate number of hours of C.E. credit.

At the present time the College of Pharmacy has two audio cassette programs, one which has already been well-received by pharmacists and a second one which will be ready for release in mid-Fall 1974.

## Phar 412 INFECTIOUS DISORDERS AND DRUG THERAPY

This set is composed of 6 audio cassette tapes:

Program	Title	Author/lecturer
1	"Drug, Bug, Host Relationships"	Allan C. Kind, M.D.
2	"Infectious Disorders of the Respiratory Tract"	John B. O'Leary, M.D.
3	"Venereal Diseases and Genitourinary Infections"	Allan C. Kind, M.D.
4	"Antibiotic Sensitivity Testing" and "Veterinary Antibiotics"	Donna J. Blazevic, M.P.P.
5	"Pediatric and Hospital Infections"	Paul B. Hammond, D.V.M. John M. Matsen, M.D.
6	"A Dermatologist and an Internist Discuss Skin and Traveler's Disease"	Harold G. Ravets, M.D. and Allan C. Kind, M.D.

This series has been approved by the State Board of Pharmacy for 12 hours of credit in C.E. (1.2 C.E.U.'s).

## Phar 413 APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS

This set is composed of 8 audio cassette tapes covering the following topics:

- passage of drugs across biological membranes
- gastrointestinal absorption of drugs
- pharmaceutical factors influencing gastrointestinal absorption of drugs
- introduction to pharmacokinetics
- bioavailability considerations
- plateau principle
- multiple dosing regimens
- dosage regimens for aged and diseased states

The lecturers for this program are Dr. Kenneth Miller and Dr. Ronald Sawchuk; both are Assistant Professors in the Department of Pharmaceutics, College of Pharmacy.

Approval will be sought from the State Board of Pharmacy for 16 hours of C.E. credit.

Fee: to be determined

## PROGRAMMED INSTRUCTION COURSE

Programmed instruction materials provide an excellent opportunity for individualized study. The learner is led by easy steps at his own pace, at a convenient time, and in surroundings of his own choice through a learning experience which provides instant feedback on his progress.

The author of the College's first experience in producing a programmed instruction course is Robert B. Johnson, Jr., B.S., R.Ph. Mr. Johnson is a graduate of the College ('72) and currently he has completed his second year of studies in the Medical School, University of Minnesota.

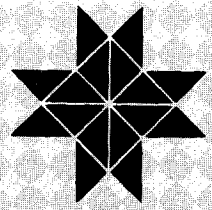
## **Phar 414 CARE AND TREATMENT OF THE DIABETIC**

This is a programmed instruction text for pharmacists, and other health professionals. The course includes a general description of diabetes, the treatment of diabetes, techniques in diabetic care, and ketoacidosis and hypoglycemic reactions. There are four review cases, complete with questions and answers, and final review cases together with a final examination.

Statements certifying completion will be sent to those submitting the final examination form.

This course has been approved by the State Board of Pharmacy for 6 hours of C.E. credit.

Fee: \$8.00 per copy  
(bulk discount prices  
available on request)



# CONTINUING EDUCATION IN PUBLIC HEALTH

Continuing Education in Public Health is sponsored by the School of Public Health, Lee D. Stauffer, Dean.

**Robert W. Schwanke, M.P.H.**  
**Coordinator for Continuing Education**  
**School of Public Health**  
**1325 Mayo Memorial Building**  
**University of Minnesota**  
**Minneapolis, Minnesota 55455**  
**(612) 373-8060**

For information or registration in continuing education programs in public health, contact Mr. Robert Schwanke. For information on programs in other areas, complete and mail the form on page 77.

## Chronological Course Listings

### 1974

Fundamental Aspects of Drug Abuse and Dependency	Fall Quarter 1974
Counseling the Alcoholic and Other Drug Dependent People	Fall Quarter 1974
Internship in Alcohol and Drug Abuse	Fall Quarter 1974
Group Counseling Techniques as Related to Chemical Dependency Treatment	Fall Quarter 1974
Environmental Health	Fall Quarter 1974
Introduction to Air Pollution Problems	Fall Semester 1974
Measurement and Application of Ionizing Radiation	Fall Quarter 1974
Administration of Long Term Care Facilities	September 16, 1974- January 7, 1975
Coding Electrocardiographs	September 1974 (exact dates to be determined)
Independent Study Program for Health Care Trustees, Course I and Course II	October 29-30, 1974
Adult and Geriatric Nurse Practitioner Program: Health Assessment I and II	September 1974 (exact dates and locations to be determined)

### 1975

Personal and Community Health	Winter Quarter 1975
Fundamental Aspects of Drug Abuse and Dependency	Winter Quarter 1975
The Disease Process and Social Implications of Drug Dependency	Winter Quarter 1975
Internship in Alcohol and Drug Abuse	Winter Quarter 1975
Group Counseling Techniques as Related to Chemical Dependency Treatment	Winter Quarter 1975
Environmental Health Aspects of Waste Water Systems	Winter Quarter 1975
Services for Long Term Care Patients	January 8-April 22, 1975

Adult and Geriatric Nurse Practitioner Program: Health Assessment I and II	February 1975 (exact dates and locations to be determined)
Introduction to Anatomy and Medical Terminology	Spring Quarter 1975
The Disease Process and Social Implications of Drug Dependency	Spring Quarter 1975
Counseling the Alcoholic and Other Drug Dependent People	Spring Quarter 1975
Fundamentals of Alcohol and Drug Abuse	Spring Quarter 1975
Internship in Alcohol and Drug Abuse	Spring Quarter 1975
Group Counseling Techniques as Related to Chemical Dependency Treatment	Spring Quarter 1975
Air Pollution Controls and Surveys	Spring Semester 1975
Environmental Health Aspects of Water Supply	Spring Quarter 1975
Contemporary School Nursing	Spring Quarter 1975
Critical Issues in Aging	April 23; August 4, 5, 1975
Coding Electrocardiographs	June 1975 (exact dates to be determined)
Fundamentals of Biostatistics	June 22-July 12, 1975
Fundamentals of Epidemiology	June 22-July 12, 1975
Epidemiology of Cancer	June 22-July 12, 1975
Epidemiology of Cardiovascular Diseases	June 22-July 12, 1975
Epidemiologic Basis for Health Services Planning and Evaluation	June 22-July 12, 1975
Infectious Disease Epidemiology	June 22-July 12, 1975
Serologic Epidemiology	June 22-July 12, 1975
Health Survey Methods	June 22-July 12, 1975
Epidemiology of Mental Disorders	June 22-July 12, 1975
Epidemiology of Neurologic Disease	June 22-July 12, 1975
Epidemiology of Chronic Respiratory Disease	June 22-July 12, 1975
Genetics and Epidemiology	June 22-July 12, 1975

Population Dynamics	June 22-July 12, 1975
Selected Statistical Topics in Epidemiology	June 22-July 12, 1975
Radiation Epidemiology	June 22-July 12, 1975
Independent Study Program for Hospital and Health Care Facility Administrators Course I and Course II	July 7-18, 1975 (Residential Session)
Independent Study Program for Hospital and Health Care Facility Administrators Course III	September 1975 (dates to be announced) (Residential Session)
Independent Study Program in Patient Care Administration Course I	July 7-18, 1975 (Residential Session)
Independent Study Program in Patient Care Administration Course II	August 11-22, 1975 (Residential Session)

### 1976

Environmental Radioactivity Winter Quarter 1976

\*There are additional courses offered throughout the year; hours and dates arranged. These include: Practicum in Long Term Care Administration, Basic Accounting and Financial Reporting in Long Term Care Facilities, Fundamental Aspects of Personnel Administration in Long Term Care Facilities, Management of Organizational Behavior in Long Term Care Facilities, Managing the Effects of Institutional Living, Independent Study Program for Hospital and Health Care Facility Administrators Course III (Residential Session), and Adult and Geriatric Nurse Practitioner Program.

## CONTINUING EDUCATION IN PUBLIC HEALTH

Most programs will be presented on or near the Minneapolis campus of the University of Minnesota. For registration or further information on courses noted with an asterisk (\*), write for the Extension Classes Bulletin (see address listed on page 3). For courses noted with a dagger (†), write for the Independent Study Bulletin (see address listed on page 3).

## Course Descriptions

### **CHEMICAL DEPENDENCY COUNSELOR CERTIFICATE PROGRAM**

Individual courses are designed to provide training for professionals and paraprofessionals who are pursuing a career in chemical dependency counseling as well as to provide supplementary drug abuse education for other health professionals who are called upon to develop helping strategies for the chemically dependent.

**\*PubH 3030 FUNDAMENTAL ASPECTS OF DRUG ABUSE AND DEPENDENCY**      **Fall Quarter 1974**  
**Winter Quarter 1975**

Lectures and discussions on the nature of drugs; the medical, psychological, and social aspects of dependence. Three credits. The class will meet in 2-690 Health Sciences Building A, and is taught by Dr. R. Heilman and others. Hours: Fall Quarter 1974: Tuesdays 6:30-9:00 p.m.; Winter Quarter 1975: Thursdays 6:30-9:00 p.m.

Fee: \$42.00

**\*PubH 3032 COUNSELING THE ALCOHOLIC AND OTHER DRUG DEPENDENT PEOPLE**      **Fall Quarter 1974**  
**Spring Quarter 1975**

Individual and group counseling techniques and family counseling as specifically related to drug abuse and its effect on all aspects of a person's life. Three credits. The class will meet in 2-690 Health Sciences Building A, and is taught by Dr. D. Anderson and others. Hours: Fall Quarter 1974: Thursdays 6:30-9:00 p.m.; Spring Quarter 1975: Tuesdays 6:30-9:00 p.m.

Fee: \$42.00

**\*PubH 3035 INTERNSHIP IN ALCOHOL AND DRUG ABUSE**      **Fall Quarter 1974**  
**Winter Quarter 1975**  
**Spring Quarter 1975**

Six-month (150 working days) rotating internship under professional supervision in approved and affiliated institutions. Three to nine credits. Hours arranged. The internship program is coordinated by Mr. E. G. Meads and others.

Fee: \$42.00

**\*PubH 5036 GROUP COUNSELING TECHNIQUES AS RELATED TO CHEMICAL DEPENDENCY TREATMENT**      **Fall Quarter 1974**  
**Winter Quarter 1975**  
**Spring Quarter 1975**

Focus will be on the small group and the role it plays in the recovery process. Three credits. Hours arranged. The course is taught by Mr. V. Fletcher and others.

Fee: \$45.00

**\*PubH 3031 THE DISEASE PROCESS AND SOCIAL IMPLICATIONS OF DRUG DEPENDENCY**      **Winter Quarter 1975**  
**Spring Quarter 1975**

Study of the social and pathological use of drugs by individuals and societies. Historical as well as contemporary usage will be considered. Three credits.



The class will meet in 2-690 Health Sciences Building A, and is taught by Dr. J. Kincannon and others. Hours: Winter Quarter 1975: Tuesdays 6:30-9:00 p.m.; Spring Quarter 1975: Thursdays 6:30-9:00 p.m.

Fee: \$42.00

## ENVIRONMENTAL HEALTH

### **\*PubH 5151 ENVIRONMENTAL HEALTH Fall Quarter 1974**

Methods for promoting man's health and comfort by controlling the environment. Qualified students may register for graduate credit. Three credits. The course is taught by Dr. C. P. Straub and meets in Mayo 1210. Hours: Tuesdays 7:00-9:30 p.m.

Fee: \$45.00

### **\*PubH 5181 INTRODUCTION TO AIR POLLUTION PROBLEMS Fall Semester 1974**

History, sources, controls, effects, surveys, legal aspects, and administration of air pollution programs. Qualified students may register for graduate credit. The class will meet in Mayo 1250, and is taught by Dr. H. J. Paulus. Three credits. Hours: Mondays 6:20-8:00 p.m.

Fee: \$45.00

### **\*PubH 5201 MEASUREMENT AND APPLICATION OF IONIZING RADIATION Fall Quarter 1974**

Introduction to principles of measurement and use of radiative sources; emphasis on health hazards. Three credits lecture and lab (two credits lecture only). The course is taught by Dr. D. Barber. Hours: arranged.

Fee: \$45.00

### **\*PubH 5244 ENVIRONMENTAL HEALTH ASPECTS OF WASTE WATER SYSTEMS Winter Quarter 1975**

Role of liquid wastes in health of man; physical, chemical and biological characteristics; evaluation of source, treatment and disposal facilities. Three credits. The class will meet in Mayo 1210 on Tuesdays 7:00-9:30 p.m. The course is taught by Dr. C. P. Straub.

Fee: \$45.00

### **\*PubH 5241 ENVIRONMENTAL HEALTH ASPECTS OF WATER SUPPLY Spring Quarter 1975**

Role of water in health of man; physical, chemical and biological characteristics; evaluation of source, treatment and distribution system. Qualified students may register for graduate credit. Three credits. The class will meet in Mayo 1220 Tuesdays 7:00-9:30 p.m. The course is taught by Dr. C. P. Straub.

Fee: \$45.00

### **\*PubH 5182 AIR POLLUTION CONTROLS AND SURVEYS Spring Semester 1975**

Public health engineering approach to air pollution controls and surveys. Qualified students may register for graduate credit. Three credits. The class

will meet in Mayo 1250, and is taught by Dr. H. J. Paulus. Hours: Mondays 6:20-8:00 p.m.

Fee: \$45.00

**\*PubH 5202 ENVIRONMENTAL RADIOACTIVITY Winter Quarter 1976**

Sources, measurement, evaluation and control of environmental radioactivity; hazards to general population. Three credits. The course is taught by Drs. D. Barber and C. P. Straub. Hours: arranged.

Fee: \$45.00

**EPIDEMIOLOGY**

**TENTH GRADUATE SUMMER SESSION  
IN EPIDEMIOLOGY**

**June 22-July 12, 1975**

Graduate credit available by arrangement. The classes will meet in the Health Sciences Building Unit A. Special registration with Department of Epidemiology only (Health Sciences Building Unit A 1-117). For further information contact Dr. L. M. Schuman.

Fee: to be determined

**PubH 5331 FUNDAMENTALS OF BIostatISTICS**

Discussions of incidence, prevalence, probability, and probability methods as well as the elementary principles of statistical inference. Dr. J. E. Bearman. Limited to 30 students.

**PubH 5332 FUNDAMENTALS OF EPIDEMIOLOGY**

Basic concepts and methods of epidemiology are presented in lectures and group seminars. Each seminar is devoted to discussion of an exercise dealing with the investigation of a specific disease. Visiting lecturers.

**PubH 5345 EPIDEMIOLOGY OF CANCER**

Epidemiologic aspects of selected types of cancer with emphasis on approaches to study. Visiting lecturers.

**PubH 5346 EPIDEMIOLOGY OF CARDIOVASCULAR DISEASES**

Epidemiologic aspects of various types of cardiovascular disease with emphasis on multivariate setting of etiologies. Visiting lecturers.

**PubH 5350 EPIDEMIOLOGIC BASIS FOR HEALTH SERVICES  
PLANNING AND EVALUATION**

Epidemiologic approaches to planning and criteria of evaluation. Visiting lecturers.

A varying number of additional courses are selected each year from the following:

**PubH 5336 INFECTIOUS DISEASE EPIDEMIOLOGY**

Factors involved in epidemic occurrence, clinical response to infection, impact on man of zoonoses, immunologic responses, vaccine evaluation. Visiting lecturers.

**PubH 5337 SEROLOGIC EPIDEMIOLOGY**

Applications of immunologic and biochemical methods to epidemiologic problems of disease. Visiting lecturers.

**PubH 5341 HEALTH SURVEY METHODS**

Problems of sampling, sample-size determinations, interview, questionnaire development, and organization of community health research.

**PubH 5347 EPIDEMIOLOGY OF MENTAL DISORDERS**

Application of epidemiologic concepts and methods to psychiatric problems. Specific mental disorders. Visiting lecturers.

**PubH 5348 EPIDEMIOLOGY OF NEUROLOGIC DISEASE**

Epidemiologic approach to selected diseases of the nervous system including multiple sclerosis, Parkinsonism, cerebrovascular diseases, and malignant disease and congenital deformities of the central nervous system.

**PubH 5349 EPIDEMIOLOGY OF CHRONIC RESPIRATORY DISEASE**

Critical review of current status of chronic respiratory disease epidemiology and methods. Design and analysis of longitudinal studies.

**PubH 5355 GENETICS AND EPIDEMIOLOGY**

Genetic methods of evaluating families; topics in population genetics. Visiting lecturers.

**PubH 5356 POPULATION DYNAMICS**

Historical and current levels and changes in rates of population growth, mortality, natality, migration.

**PubH 5357 SELECTED STATISTICAL TOPICS IN EPIDEMIOLOGY**

Rate adjustment, relative risk, measures of association, matched pair analyses, force of mortality, and estimation of survivorship. Visiting lecturers.

**PubH 5358 RADIATION EPIDEMIOLOGY**

Critical review of epidemiological studies of biological effects of radiation exposure in man with emphasis on methodological problems encountered. Visiting lecturers.

**GENERAL PUBLIC HEALTH**

**\*PubH 3001 PERSONAL AND COMMUNITY HEALTH Winter Quarter 1975**

Fundamental principles of health conservation and disease prevention. Three credits. The class will meet in Mayo 100, and is taught by Dr. W. A. O'Brien and others. Hours: Tuesdays 7:00-9:30 p.m. Meets teacher health certification requirement.

Fee: \$42.00

**\*PubH 3005 INTRODUCTION TO ANATOMY AND MEDICAL TERMINOLOGY** **Spring Quarter 1975**

Presentation of a method of medical terminology by body system. Review of anatomy including the regions and systems of the body. Three credits. The class will meet in 74 Jackson Hall on Tuesdays 6:30-8:30 p.m. The course is taught by Dr. C. B. Heggstad.

Fee: \$42.00

**\*PubH 3033 FUNDAMENTALS OF ALCOHOL AND DRUG ABUSE** **Spring Quarter 1975**

Lectures, discussions, and special readings on the scientific, sociocultural, and attitudinal aspects of alcohol and other drug abuse, with special emphasis on the role of education. Two credits. The class will meet in 15 Owre Hall, and is taught by Mr. R. W. Schwanke and others. Hours: 6:30-9:00 p.m., Tuesdays. Meets teacher drug certification requirement.

Fee: \$28.00

**HOSPITAL AND HEALTH CARE ADMINISTRATION**

**INDEPENDENT STUDY PROGRAM FOR HEALTH CARE TRUSTEES**

**†Course I ROLE AND PROCESS OF TRUSTEESHIP**  
Second Offering

**October 29-30, 1974**  
Spring Hill Conference  
Center, Wayzata, Minn.

Four units of independent study for members of the governing boards of hospitals with emphasis on the general role, function, organization and accountability of hospital boards in relation to health care governance. The residential session is two days long, the entire course seven months of independent study. The course is taught by Dr. W. W. Metcalfe, Dr. J. L. Martin and others.

Fee: \$400.00  
per individual  
\$1,000.00 per  
institution for  
3 participants

**†Course II THE SPECIALIZED TRUSTEE**  
First Offering

**October 29-30, 1974**  
Spring Hill Conference  
Center, Wayzata, Minn.

Four units of independent study for practicing hospital trustees with emphasis on exploring relationships between the board and administration, the curing staff, the caring staff, and the community. The initial residential session is two days long, the entire course is seven months of independent study. The course will be taught by Dr. W. W. Metcalfe, Dr. J. L. Martin and others.

Fee: \$400.00  
per individual  
\$1,000.00 per  
institution for  
3 participants

INDEPENDENT STUDY PROGRAM FOR HOSPITAL AND HEALTH CARE FACILITY ADMINISTRATORS

†**Course I MANAGEMENT AND ORGANIZATION** **July 7-18, 1975**  
**WITHIN THE HOSPITAL** Residential Session

Emphasis on management, organizational behavior, personnel management, hospital development and organization, financial control, indirect patient care functions, direct patient care functions, role of chief executive, problem solving. Fifteen credits. The course is taught by Dr. V. E. Weckwerth, Dr. W. DeGeyndt and others. The course is one calendar year long and is independent study.

Fee: \$750.00

†**Course II ADMINISTRATIVE AND PROFESSIONAL** **July 7-18, 1975**  
**RELATIONSHIPS WITHIN THE** Residential Session  
**HOSPITAL**

Emphasis on the Board of Trustees; role of nursing in the framework of patient services; role of administrator in developing and implementing policy; legal dimensions for hospital administrators; medical records; administrative role in planning, programming and facility development; the hospital as part of the community health system; and administrative responsibilities for continuing education. Fifteen credits. The course is taught by Dr. V. E. Weckwerth, Dr. W. W. Metcalfe, and others. The course is one calendar year long and is independent study.

Fee: \$750.00

†**Course III EXTERNAL FORCES AFFECTING** **September 1975**  
**HEALTH CARE DELIVERY** dates to be announced  
Residential Session

Concentration on the external forces of finance, social policy, manpower, and organizing, on the delivery of health care by hospitals and other health care institutions. Emphasis will be on constraints and opportunities in each subject matter area. Twenty-five graduate credits. The course is taught by Dr. V. E. Weckwerth, Mr. R. Dickler and others. The course is one calendar year long and is independent study.

Fee: \$750.00

INDEPENDENT STUDY PROGRAM FOR LONG TERM CARE ADMINISTRATORS

†**PubH 3750 ADMINISTRATION OF LONG** **September 16, 1974-**  
**TERM CARE FACILITIES** **January 7, 1975**

Relates fundamental management principles to the special problems and concerns of long term care administration. Six credits. On-campus sessions will be September 16, 17, 18, 1974 and January 6 and 7, 1975. The course is taught by Ms. R. P. Stryker, Dr. G. K. Gordon and others.

Fee: \$200.00

†**PubH 3760 SERVICES FOR LONG** **January 8-April 22, 1975**  
**TERM CARE PATIENTS**

Relates the physical and psychosocial needs of patients to the services provided in the facility. Six credits. On-campus sessions will be January 8,

9, 10 and April 21, 22, 1975. The course is taught by Ms. R. P. Stryker, Dr. G. K. Gordon, and others.

Fee: \$200.00

**†PubH 5757 CRITICAL ISSUES IN AGING April 23; August 4, 5, 1975**

Physical, psychosocial, and cultural dynamics of aging (gerontology), and public policy affecting adaptation by the aging person. Six credits. On-campus sessions will be April 23 and August 4, 5, 1975.

Fee: \$200.00

**†PubH 3751 PRACTICUM IN LONG TERM CARE ADMINISTRATION Hours/Dates Arranged**

Relates knowledge to practice in a long term care setting under the guidance of a trained preceptor. Six credits. Dates arranged with student and preceptor by Ms. R. P. Stryker. This course is a minimum of 300 hours.

Fee: \$200.00

**†PubH 3770 BASIC ACCOUNTING AND FINANCIAL REPORTING IN LONG TERM CARE FACILITIES Dates to be arranged**

A basic course designed for long term care administrators and for understanding fundamentals of financial planning. The course is taught by Mr. R. Oszustowicz. Three credits.

Fee: \$200.00

**†PubH 3780 FUNDAMENTAL ASPECTS OF PERSONNEL ADMINISTRATION IN LONG TERM CARE FACILITIES Dates to be arranged**

An overview of personnel administration in a long term care setting. Job descriptions, personnel policies, wage and salary administration, collective bargaining. Three credits. The course is taught by Ms. R. P. Stryker and others.

Fee: \$200.00

**†PubH 5759 MANAGEMENT OF ORGANIZATIONAL BEHAVIOR IN LONG TERM CARE FACILITIES Dates to be arranged**

Experience-based learning focused upon the interplay of factors such as power, authority, communications, small group development, leadership, individual and organizational goals, and motivation in the nursing home setting. Three credits. The course is taught by Dr. G. K. Gordon.

Fee: \$200.00

**†PubH 5762 MANAGING THE EFFECTS OF INSTITUTIONAL LIVING Dates to be arranged**

Applied theory and research on the effects of institutionalization; identifying organizational factors affecting patient care. Three credits. The course is taught by Dr. G. K. Gordon.

Fee: \$200.00

INDEPENDENT STUDY PROGRAM IN PATIENT CARE ADMINISTRATION

†**Course I PATIENT CARE MANAGEMENT  
AND ORGANIZATION WITHIN THE  
HOSPITAL AND HEALTH CARE  
ORGANIZATION**

**July 7-18, 1975**  
Residential Session

Improvement in administration by practicing patient care administrators in the internal operations of the health care delivery system. Emphasis is on management principles and the role of the patient care administrator. The course is taught by Mr. J. R. Malban, Dr. W. W. Metcalfe, Ms. R. P. Stryker and others. The course is one calendar year long and is independent study.

Fee: \$750.00

†**Course II MANAGING MULTIPLE FORCES:  
INTERNAL AND EXTERNAL ASPECTS  
OF PATIENT CARE ADMINISTRATION**

**August 11-22, 1975**  
Residential Session

Content and method will enable the student to initiate and manage change, improve and augment skills in the utilization of resources and gain knowledge in alternative systems of patient care and evaluation. Major topics are planning, organizing and staffing; and directing and controlling. The course is taught by Dr. G. K. Gordon, Mr. D. Oatway, and others. The course is one calendar year long and is independent study.

Fee: \$750.00

**PUBLIC HEALTH NURSING**

**PubH 5580 ADULT AND GERIATRIC NURSE  
5581 PRACTITIONER PROGRAM:  
HEALTH ASSESSMENT I AND II**

**September 1974 and  
February 1975** exact  
dates and locations  
to be determined

A five-month independent work study program designed to prepare nurses to function as associates to physicians in delivering primary health care. Credit possible by special arrangement. Ms. E. M. Anderson and Ms. E. R. Cooley.

Fee: Based upon  
whether credit or  
no-credit  
registration

**PubH 5535 CONTEMPORARY SCHOOL  
NURSING**

**Spring Quarter 1975**

Day class only.

Two courses in contemporary school nursing are offered at selected locations in the state during the academic year. Open to all Registered Nurses, but planned primarily for school nurses and public health nurses. Graduate credit available for eligible students.

Fee: to be determined

*Also see Section on Continuing Education in Nursing.*

## PHYSIOLOGICAL HYGIENE

### **CODING ELECTROCARDIOGRAPHS**

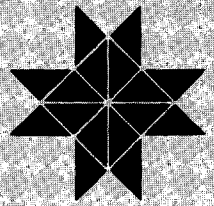
**September 1974 and  
June 1975 exact dates  
to be determined**

A two-week course for physicians, nurses, and EKG technicians. Designed to aid observers in spotting abnormalities on EKG's, and to code them according to the new "Minnesota Code." Credit possible by arrangement. The course is taught by Dr. R. J. Prineas and others.

Fee: \$100.00

*Also see VetM 511, Veterinary Medicine Section; FScN 701, Allied Health Section.*





CONTINUING EDUCATION  
IN  
**VETERINARY MEDICINE**

Continuing Education in Veterinary Medicine is sponsored by the College of Veterinary Medicine, Sidney A. Ewing, Dean, in cooperation with the Office of Special Programs, LaVern A. Freeh, Head, and the Agricultural Extension Service, Roland H. Abraham, Director.

**James O. Hanson, D.V.M.**  
**Director**  
**Continuing Education**  
**College of Veterinary Medicine**  
**University of Minnesota**  
**St. Paul, Minnesota 55108**  
**(612) 373-1154**

For information or registration in continuing education programs in veterinary medicine, contact Dr. James O. Hanson. For information on programs in other areas, complete and mail the form on page 77.

## Chronological Course Listings

### 1974

Thirty-Fifth Minnesota Nutrition Conference	September 16-17, 1974
Diagnostic Clinical Bacteriology and Mycology	September 18-19, 1974
Annual Fall Conference for Veterinarians	October 24-25, 1974
Post Mortem Examination and Diagnosis	October 29-31, 1974
Surgical Small Animal Ophthalmology	November 5-6, 1974
Clinical Hematology and Cytology	December 5-6, 1974

### 1975

Radiology of Equine Limbs	January 7, 21, 1975 February 4, 1975
Seminar—The Practice of Caged Bird Medicine	January 22, 1975
Post Mortem Examination and Diagnosis	January 28-30, 1975 April 15-17, 1975
Clinical Chemistry, Urinalysis and Diagnosis	March 19-20, 1975
Conference on Heartworm of the Dog	Spring 1975 Date to be determined
Public Health Conference	Spring 1975 Date to be determined

## **CONTINUING EDUCATION IN VETERINARY MEDICINE**

### **Registration**

You may register in advance for the various courses listed in this brochure by filling in and mailing the form which appears on page 77. (For veterinary medicine only, please disregard the mailing address listed on the form.) Please mail advance registration forms and fees to:

Dr. James O. Hanson  
College of Veterinary Medicine  
University of Minnesota  
St. Paul, Minnesota 55108

All courses will be held on the St. Paul campus of the University of Minnesota unless otherwise specified.

### **Meals and Lodging**

If registration fee includes meals, it will so indicate. The registration fee does not include lodging. Information concerning housing will be made available to those requesting it.

### **Special Notices**

Special notices regarding continuing education courses will appear in each issue of the Veterinary Medicine Newsletter.

### **Handout Materials**

It is planned that handout materials will be provided course participants.

### **Refunds**

Advance registration is encouraged; however, in the event it is necessary for you to cancel prior to date of course, or if a course is canceled because of insufficient registration, a refund will be made.

## Course Descriptions

**VetM 501 THIRTY-FIFTH MINNESOTA NUTRITION CONFERENCE** **September 16-17, 1974**  
Sheraton Motor Inn  
Bloomington, MN

The program includes discussions on the following: Mineral requirements and metabolism in food producing animals; disease nutrition relationships; physiological mechanisms controlling feed intake. Faculty for the course will be from the Department of Animal Science, University of Minnesota, and guest speakers. Please register in advance or 8:00 to 9:00 a.m. Monday, September 16, 1974. The program is from 9:00 to 4:00 each day. Eight academy credits each day. To receive a copy of this program please write: Office of Special Programs, University of Minnesota, St. Paul, Minnesota 55108.

Fee: \$25.00 includes  
proceedings booklet

**VetM 502 DIAGNOSTIC CLINICAL BACTERIOLOGY AND MYCOLOGY** **September 18-19, 1974**

The objective is to develop the ability to tentatively identify common pathogenic and contaminant bacteria and fungi. The course will include demonstrations, slides, handouts and laboratory sessions on techniques as well as recognition of common bacteria and fungi that may be found in a small animal, large animal or mixed animal practice. Faculty for this course will be Dr. J. D. Hilgren and staff. Advance registration only. Please register not later than September 10, 1974. Twenty-four academy credits. The program will be presented 8:00 to 5:00 each day. Each participant may enroll a laboratory technician.

Fee: veterinarians—\$60.00  
laboratory technician—\$30.00  
includes laboratory notes

Attendance: minimum of 6 and  
maximum of 12 veterinarians

**VetM 503 ANNUAL FALL CONFERENCE FOR VETERINARIANS** **October 24-25, 1974**

The subject for the Large Animal Medicine Program is herd health programming—beef cow-calf enterprise. The faculty will be from the College of Veterinary Medicine and guest lecturers.

Fee: to be determined

The subject of the Small Animal Medicine Program is intensive care principles of the cardiovascular and pulmonary systems. Dr. F. Sattler, Fullerton, California, will serve as faculty. Eight academy credits each day.

Fee: to be determined

**VetM 504 POST MORTEM EXAMINATION AND DIAGNOSIS** **October 29-31, 1974**  
**January 28-30, 1975**

Small Animal Practitioners Only

**April 15-17, 1975**

Large Animal Practitioners Only

A laboratory participation course for practicing veterinarians. The various bacterial, viral serological and pathological techniques will be utilized in

arriving at a laboratory diagnosis. Selection and handling of materials for laboratory use will be emphasized. There will be a discussion of toxicology, including mycotoxins and common toxicities of farm animals. Veterinarians are encouraged to bring one or more animals preferably from clinical cases that have presented problems in your practice. Dr. J. M. Higbee and staff will be the faculty. Each session will begin at 1:15 p.m., Tuesday and continue until 4:00 p.m., Thursday. Minnesota registrants will be given priority. Written course objectives and other class materials will be mailed to each registrant. Thirty academy credits each two and one-half day session.

Fee: \$25.00

Attendance: limited to 4  
veterinarians for each  
session

**VetM 505 SURGICAL SMALL ANIMAL  
OPHTHALMOLOGY**

**November 5-6, 1974**

This will be a laboratory-workshop type session. Surgical procedures of the canine and feline orbit, eyelids, nictitating membrane, conjunctiva, nasolacrimal system and cornea will be discussed. Presentations include breed disposition, clinical signs, prognosis, medical and surgical treatments. Surgical laboratories will follow formal presentations. Faculty will be Dr. K. N. Gelatt. Advance registration only. Twenty-four academy credits.

Fee: \$125.00

Attendance: limited to 16-18  
veterinarians

**VetM 506 CLINICAL HEMATOLOGY  
AND CYTOLOGY**

**December 5-6, 1974**

The course will emphasize dog and cat hematology and cytology. Discussion includes basic principles and illustrations with visual aids. Laboratories will consist of sample collection from dogs and cats and sample management. Fresh and prepared slide material will be studied. Emphasis will be on anemia, leukocyte reactions, bone marrows, body fluids, vaginal smears, and common neoplasms. While concentrating on dog and cat hematology and cytology, basic principles apply to all domestic animals. Large animal practitioners are encouraged to attend. Please indicate if your primary interest is large animal medicine, in order that bovine specimens can be made available for study in the laboratory. Participants are encouraged to enroll their laboratory technician. Please register not later than November 20, 1974. Twenty-four academy credits.

Fee: veterinarians—\$100.00  
laboratory technicians—\$35.00  
attending with veterinarian  
laboratory technicians only—\$100.00  
special permission required

**VetM 507 RADIOLOGY OF EQUINE LIMBS**

**January 7, 21, 1975  
February 4, 1975**

The course will emphasize the foot, carpal joint, elbow, tarsal joint and stifle. Lectures and film reading experience at the College of Veterinary Medicine plus home study packets of films will be used. The class will meet three times at two week intervals, from 2:30 to 5:30 and from 7:00 to 9:00.

Dr. J. P. Arnold and Dr. C. Jessen will serve as faculty. Please register not later than December 10, 1974.

Fee: \$100.00

Attendance: minimum of 5 and maximum of 10 veterinarians

**VetM 508 SEMINAR—THE PRACTICE OF CAGED BIRD MEDICINE**

**January 22, 1975**

The seminar will consist of a series of lectures, movies, slides, and practical demonstrations. It will include: Introduction to caged bird medicine as it is being practiced today; examination of the live bird-demonstration; radiology; methods of treatment; nutrition; feather problems; thyroid dysplasia (time permitting); fat neurosis (time permitting). Live birds will be provided in the laboratory for each registrant. Dr. T. J. Lafeber, practitioner, Niles, Illinois will serve as faculty. This seminar is for senior veterinary students and practicing veterinarians. Veterinarians should pre-register not later than January 10, 1975. Ten academy credits.

Fee: \$40.00

Attendance: limited to 25

**VetM 509 CLINICAL CHEMISTRY, URINALYSIS AND DIAGNOSIS**

**March 19-20, 1975**

This lecture course is designed to give an overview of practical clinical chemistry and urinalysis to the small animal clinician. Emphasis will be placed on data interpretation. Laboratory development and test control in a small animal hospital will be briefly discussed. Handout material will include normal data, lecture notes and selected test methods. The faculty will be Dr. J. B. Stevens and staff. Fifteen academy credits.

Fee: \$50.00 includes proceedings booklet

Attendance: limited

**VetM 510 CONFERENCE ON HEARTWORM OF THE DOG**

**Spring 1975**

Date to be determined

The program will be a one day conference on the canine heartworm, *Dirofilaria immitis*. It will include discussions and laboratory demonstrations on the following: Epizootiology; pathogenesis; transmission and vectors; laboratory diagnosis (demonstrations); treatment; prevention. The faculty will include Dr. J. C. Schlotthauer, Dr. H. J. Griffiths and staff, University of Minnesota and Dr. R. F. Jackson of St. Augustine, Florida. Ten academy credits.

Fee: to be determined

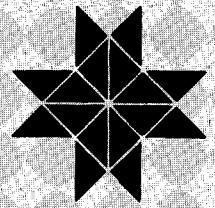
**VetM 511 PUBLIC HEALTH CONFERENCE FOR VETERINARIANS**

**Spring 1975**

Date to be determined

Selected topics of current interest to practicing veterinarians and other health professionals.

Fee: to be determined.



CONTINUING EDUCATION  
IN  
ALLIED HEALTH

Continuing education in the various allied health disciplines is sponsored by the individual discipline.

**Dietetics**

**Food Science and Nutrition**

**Occupational Therapy**

**Physical Therapy**

**Speech Therapy**

For further information in continuing education in a specific discipline, please contact the person or office listed in the program description. For information on programs in other areas, complete and mail the form on page 77.

## DIETETICS

### DI-601 CLINICAL INSTITUTE FOR DIETITIANS

Spring 1975

Site to be determined

For dietitians and nutritionists. Faculty from the University of Minnesota and the Twin Cities area will present a program dedicated to providing information on new developments of current interest to dietitians and nutritionists. Sponsored by the Department of Nutrition, University of Minnesota Hospitals.

Fee: to be determined

For detailed information on this course, write or contact:

Director, Department of Conferences  
Nolte Center for Continuing Education  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-3151

## FOOD SCIENCE AND NUTRITION

The following courses are available for persons interested in the fields of food science and nutrition:

### Chronological Course Listings

#### FOOD SCIENCE AND NUTRITION

1974

Minnesota Sanitarians Conference	September 12-13, 1974
Current Issues in Food and Nutrition	Fall Quarter 1974
Family Nutrition	Fall Quarter 1974
Field Experience in Clinical Nutrition	Fall Quarter 1974
Food Chemistry	Fall Quarter 1974
General Seminar	Fall Quarter 1974
Meat and Protein Technology	Fall Quarter 1974
Selected Aspects of Food Service and Hospitality Business Management	Fall Quarter 1974



## 1975

Experimental Study of Foods	Winter Quarter 1975
Field Experience in Clinical Nutrition	Winter Quarter 1975
Food Microbiology	Winter Quarter 1975
Sensory Evaluation of Food Quality	Winter Quarter 1975
Understanding Cheese	Winter Quarter 1975
Advanced Topics in Sensory Evaluation	Spring Quarter 1975
Design and Layout of Food Services	Spring Quarter 1975
Field Experience in Clinical Nutrition	Spring Quarter 1975
General Seminar	Spring Quarter 1975
Home Preservation of Foods	Spring Quarter 1975
Meat Science	Spring Quarter 1975
Metabolic Basis for Therapeutic Nutrition	Spring Quarter 1975
Sanitation and Process Microbiology	Spring Quarter 1975
Clinical Nutrition	Spring Quarter 1975

**Course Descriptions**  
**FOOD SCIENCE AND NUTRITION**

**FScN 701 MINNESOTA SANITARIANS CONFERENCE** **September 12-13, 1974**  
North Star Ballroom  
Student Center  
St. Paul Campus

*Developments in food, plant and environmental sanitation as an update for sanitarians working in the field of milk, food, and environmental sanitation.*

**FScN 5404 CURRENT ISSUES IN FOOD AND NUTRITION** **Fall Quarter 1974**

*Evaluation of popular and scientific literature as it deals with nutrition, food additives, food safety, food fads, health foods, environmental contamination, the consumer movement, naturally occurring food toxicants, processed foods, synthetic foods, organically grown foods.*

**FScN 1603 FAMILY NUTRITION** **Fall Quarter 1974**

*Basic concepts in nutrition, emphasizing interrelationships between nutrients and human requirements for specific nutrients. Discussion on current controversial nutrition topics.*

**FScN 5664 FIELD EXPERIENCE IN CLINICAL NUTRITION** **Fall Quarter 1974**  
**Winter Quarter 1975**  
**Spring Quarter 1975**

*Application of principles of nutrition to problems in health and disease involving assigned readings, discussions and experience in a clinical facility. (Prereq. a course in human nutrition and consent of instructor. Qualified students may register for graduate credit at the University of Minnesota.)*

**FScN 3110 FOOD CHEMISTRY** **Fall Quarter 1974**

*Chemical properties of foods and food constituents as influenced by processing and storage.*

**FScN 5100 GENERAL SEMINAR** **Fall Quarter 1974**  
**Spring Quarter 1975**

*Literature review and presentation of papers in selected areas of food science and nutrition. May be taken S-N only. (Prereq. dietitian intern, U of M Hosp., or permission. Qualified students may register for graduate credit at the University of Minnesota.)*

**FScN 5512 MEAT AND PROTEIN TECHNOLOGY** **Fall Quarter 1974**

*Meat proteins: effects of pH, salt, and temperature on hydration and emulsification; methods of fractionation. Meat preservation: effects of heat, freezing, curing and problems of produce stability during storage. Sausage manufacture: chemistry, technology, least-cost analysis (graphical and computer methods), and chemical methods of quality control (rapid and classical methods of proximate analysis).*

**FScN 5750    SELECTED ASPECTS OF FOOD                      Fall Quarter 1974**  
**SERVICE AND HOSPITALITY**  
**BUSINESS MANAGEMENT**

Management techniques applied to a food service or hospitality business. Methods of analysis and control.

**FScN 5403    EXPERIMENTAL STUDY OF FOODS    Winter Quarter 1975**

Individual laboratory experimentation and comprehensive literature search on a problem in foods. Statistics and computers as a research tool. Data analysis and interpretation for a scientific paper.

**FScN 5120    FOOD MICROBIOLOGY                      Winter Quarter 1975**

Relationship of environment to occurrence, growth, and survival of microorganisms in foods; evaluation of microbiological quality of dairy and food products; characteristics and activities of bacteria, yeasts, and molds related to food spoilage; utilization of microorganisms in manufacture of dairy and food products; recognition and control of food-borne pathogens and food poisoning.

**FScN 5360    SENSORY EVALUATION OF                      Winter Quarter 1975**  
**FOOD QUALITY**

Fundamentals of flavor perception, sensory methods used in measuring quality of food products.

**FScN 1030    UNDERSTANDING CHEESE                      Winter Quarter 1975**

An understanding and appreciation of the conversion of milk into cheese; cheese curing; optimum characteristics of many varieties of natural cheeses; fondue, process and club cheese; nutritional value and care of cheese in the home.

**FScN 5462    ADVANCED TOPICS IN                      Spring Quarter 1975**  
**SENSORY EVALUATION**

Review of current literature pertinent to specific topics under active investigation.

**FScN 5740    DESIGN AND LAYOUT OF                      Spring Quarter 1975**  
**FOOD SERVICES**

Problems related to the design and layout of new and remodeled food services.

**FScN 1215    HOME PRESERVATION                      Spring Quarter 1975**  
**OF FOODS**

Describe and demonstrate safe methods of home food preservation. Students will be involved in laboratory preparations of various products. Food preservation methods covered will include: canning, freezing, fermenting, salting, drying, and others as needed.

**FScN 1500    MEAT SCIENCE                                  Spring Quarter 1975**

The role and interaction of muscle structure, function and metabolism in determining the color, tenderness, flavor, juiciness, and nutritional properties

of meat. The relationship of these variables to meat selection, preparation, and manufacturing considerations will be emphasized.

**FScN 5694 METABOLIC BASIS FOR  
THERAPEUTIC NUTRITION**

**Spring Quarter 1975**

Study of the physiological and biochemical basis for dietary treatment, and exploration of dietary principles as related to adequate nutrition. Case study presentations and clinical experience included. (Prereq. 5654 or consent of instructor and dietitian intern, U of M Hosp., or permission. Qualified students may register for graduate credit at the University of Minnesota.)

**FScN 5122 SANITATION AND PROCESS  
MICROBIOLOGY**

**Spring Quarter 1975**

Factors that influence the control and destruction of microorganisms; chemical, physical, and microbiological principles in cleaning and sanitizing dairy and food processing equipment; inactivation of microorganisms and thermal process evaluation; microbiological fermentations and preservation methods; development of sanitation programs; microbiological standards for dairy and food products.

**FScN 702 CLINICAL NUTRITION**

**Spring Quarter 1975**

It is projected that a course in Clinical Nutrition will be designed to meet the expressed needs of Minnesota dietitians. It will be offered in the evening.

*Also see Med 221 Medicine Section  
Phar 407 Pharmacy Section*

For detailed information on these courses write or contact:  
Division of Food Science and Nutrition  
University of Minnesota  
St. Paul, Minnesota 55108  
(612) 373-1071

**OCCUPATIONAL THERAPY—PHYSICAL THERAPY**

**Chronological Course Listings**

**1974**

Anatomy of the Extremities

Fall Quarter 1974

**1975**

Functional Neuroanatomy and  
Neurophysiology

Spring Quarter 1975

## Course Descriptions

### **OPT 801 ANATOMY OF THE EXTREMITIES** **Fall Quarter 1974**

A review of the gross anatomy of the joint structures, muscular, peripheral nervous and circulatory systems. Lecture and laboratory will include demonstration and review of the dissected human body. Must be taken S-N. Faculty: Mr. J. F. Pohrilla. Classes will meet on Wednesdays 6:20 to 8:00 p.m. in room 220 Children's Rehabilitation Center. No credit. (Prereq. registered physical therapist or occupational therapist.)

Fee: \$42.00 plus \$8.00 lab fee

Attendance: limited to 30

### **OPT 802 FUNCTIONAL NEUROANATOMY AND NEUROPHYSIOLOGY** **Spring Quarter 1975**

A study of the neuroanatomic structures as functional systems and the basic neurophysiologic concepts with emphasis on application for understanding and treating physical dysfunction. Faculty: Ms. A. J. Huss. Classes will meet on Tuesdays 6:20 to 8:50 in room 208 Children's Rehabilitation Center. May be taken for graduate credit. Three degree credits. (Prereq. occupational therapist, physical therapist, speech therapist or consent of instructor.)

Fee: \$45.00 plus \$4.00 lab fee

Attendance: limited to 50

*Also see Med 203 Medicine Section*

For detailed information on these courses, write or contact:

Department of Physical Medicine and Rehabilitation  
Box 297 Mayo Memorial Building  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-8990

## **SPEECH THERAPY**

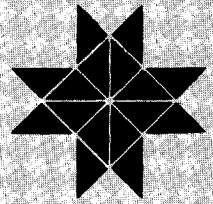
The speech and language pathologists of the University Hospitals are available to conduct in-service educational demonstrations, lectures, and discussions on a wide variety of topics dealing with communication disorders.

The purpose of the sessions that we are interested in providing would be to inform our audience about the recognition and presence of a hearing, speech, language, or educational problem in a child or adult; and the appreciation of the approaches to dealing with communication problems.

Audiences may include non-professional as well as professional groups. Arrangements are made with each group to suit the individual circumstances.

For detailed information on these courses, write or contact:

Mary Beth Ferguson, M.A.  
Speech Pathology Supervisor  
Department of Physical Medicine and Rehabilitation  
Box 297 Mayo Memorial Building  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-8990



# CONTINUING EDUCATION / OTHER PROGRAMS

The Programs listed in this section have continuing education components, and are listed for your convenience. Access to these programs is detailed in the description for each program.

**Community Services Program**

**Health Professionals Drug Abuse Education Project**

**Minnesota Medical Information Service**

**Rural Physicians Associate Program**

**Area Health Education Center**

For further information on any of these programs, contact the person or office listed in the program description. For further information on programs in other areas, complete and mail the form on page 77.

## **COMMUNITY SERVICES PROGRAM**

### **University Hospitals**

University Hospitals' Community Services Program is designed to bring the University Health Sciences staff and other resources to health care agencies throughout the state. The service is usually provided in the community, and the goal is to establish ongoing relationships between health care agencies and the University. Although service is brought to the community, staff from the community may spend time at University Hospitals to gain experience in specialty areas such as rehabilitation, coronary care, intensive care, housekeeping and maintenance, and with various methods of health care delivery.

The program is funded through the state legislature, and normally there is no charge for the service.

Flexibility is of first importance in the program. It is the intention to provide assistance in any area of University Health Sciences capability that community health care agencies may have need. Some examples of the types of service available are:

- Inservice programs for health agency staff
- Seminars for medical staff
- Organizational review and staff development
- Specialty area work experience
- Inservice resources pool—

Administration; Central Supply; Housekeeping and Maintenance; Medical Records; Medical Staff; Nursing; Nutrition (dietary); Occupational, Physical, and Speech Therapy; Operational Analysis; Pharmacy; Rehabilitation; Social Service; X-ray; and other Health Sciences resources.

If you are interested in this service or would like to know more about it, please contact:

Brenda H. Canedy, R.N. Coordinator Community Services Program University of Minnesota Box 501 Mayo Memorial Building Minneapolis, Minnesota 55455 (612) 373-7623	-or-	David R. Preston Assistant Vice President Health Sciences University of Minnesota Box 501 Mayo Memorial Building Minneapolis, Minnesota 55455 (612) 373-7615
--	------	--

## **HEALTH PROFESSIONALS DRUG ABUSE EDUCATION PROJECT**

### **Health Sciences Continuing Education**

The Health Professionals Drug Abuse Education Project, an NIMH training grant administered through Health Sciences Continuing Education, offers training related to drug abuse for community health professionals. Physicians, nurses, pharmacists, dentists, allied health professionals, social workers, and veterinarians from Minnesota, North and



South Dakota, northern Iowa, and western Wisconsin are eligible to attend programs which are presented by the Project staff.

Utilizing an interdisciplinary approach, the Project provides information on drug usage, teaches basic skills in drug-related treatment, promotes community involvement, and encourages a more responsive attitude towards drug users. Three-hour community sensitization workshops, three-day regional training retreats, specialty seminars, and internships are available. Most programs are offered at no cost to participants. To obtain more information regarding such a program for health professionals in your community, contact:

Robert M. Muscala  
Assistant Director  
Health Professionals Drug Abuse Education Project  
160 Frontier Hall  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 373-9813

## **MINNESOTA MEDICAL INFORMATION SERVICE**

### **University Hospitals**

Minnesota Medical Information Service (MMIS) is an integrated medical information service available to all physicians, dentists, nurses, pharmacists, and related health personnel in Minnesota. It consists of four component services accessible via telephone (toll free):

1. Dial Access Tapes
2. Drug Information Service
3. Medical Library Service
4. Medical/Dental Specialty Advice

### **WHERE TO CALL**

Minneapolis-St. Paul area .....373-1855  
All other areas of Minnesota (toll free) .....1-800-552-7210

MMIS is designed to provide the user with a way of obtaining information when his/her existing sources are inadequate. All practitioners are encouraged to continue utilizing their local resources and professional contacts.

### **SERVICES PROVIDED**

#### **Dial Access Tapes**

The tape library consists of 600 audio tape abstracts (4-8 minutes in length) on medical, pharmaceutical, and nursing subjects of interest to health practitioners in Minnesota. A *catalog*, listing the tapes currently

in the library, is distributed through local hospitals or upon request from MMIS\*. Announcements of new tapes are made through the professional journals in Minnesota and posted on the bulletin board at local hospitals.

\*For further information or to obtain the Dial Access catalog, call or write:

Roger Schroeder  
Director  
Minnesota Medical Information Service  
Box 611 Mayo Memorial Building  
University of Minnesota  
Minneapolis, Minnesota 55455  
Minneapolis-St. Paul area: 373-1855  
All other areas of Minnesota (toll free): 1-800-552-7210

## **RURAL PHYSICIANS ASSOCIATE PROGRAM**

### **Department of Family Practice Medical School**

The purpose of this program is to encourage senior medical students to practice in rural areas of our state and region. Practicing physician preceptors obtain continuing medical education through monthly visits of medical specialty faculty going to the communities to visit the student and physician on clinical problem situations. The practicing preceptor physician should be willing to take the time to teach the senior medical student for a period of 9 months with option for 12 months, and to pay the student physician \$5,000 for this period. Students may go only into communities where there are qualified and acceptable practicing physicians and mutually agreeable between student and teacher preceptor doctor. For further information, contact:

John Verby, M.D.  
Director  
Rural Physicians Associate Program  
Box 214 Mayo Memorial Building  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 376-3375

## **AREA HEALTH EDUCATION CENTER**

The Area Health Education Center is an innovative concept which aims to improve distribution, supply, quality, utilization and efficiency of health personnel and the health services delivery system. Basically, the AHEC is a system that links University Health Sciences resources with community health providers and health care and educational institutions so that there may be greater sharing of resources, and broader community-based learning experiences for medical, dental and other health sciences students.

The fourteen counties in Planning Area D of Central Minnesota have been selected as the pilot area. In terms of continuing education programs for health professionals, the U of M AHEC works closely with the Central Minnesota Area Health Education Consortium and its professional advisory committees.

An entire series of short term continuing education programs have been presented at several Area D locations to health professionals over the past year. These were planned and implemented jointly by the U of M AHEC and the CMAHEC. Various programs are in the planning stage for the 1974-1975 year.

For further information, or if you wish to be placed on the mailing list for the AHEC Newsletter, contact:

Edith D. Leyasmeyer, Ph.D.  
Director  
Area Health Education Center  
Suite 308 University Park Plaza  
2829 University Avenue Southeast  
Minneapolis, Minnesota 55414  
(612) 376-3350

-or-

Thomas McLaughlin  
Program Director  
Central Minnesota Area Health Education Consortium  
1528 6th Avenue North  
St. Cloud, Minnesota 56301  
(612) 251-1007

To receive additional information on one or more of the programs listed in this catalog, please complete the form below and mail to:

Health Sciences Continuing Education  
7208 Powell Hall  
University of Minnesota  
Minneapolis, Minnesota 55455

Information will be sent to you as soon as it is available.

**PROGRAM INFORMATION REQUEST CARD**

77

Program letters


Program Numbers


Check your professional area

- |                                    |  |
|------------------------------------|--|
| <input type="checkbox"/> Dentistry | <input type="checkbox"/> Public Health       |
| <input type="checkbox"/> Medicine  | <input type="checkbox"/> Veterinary Medicine |
| <input type="checkbox"/> Nursing   | <input type="checkbox"/> Allied Health       |
| <input type="checkbox"/> Pharmacy  | <input type="checkbox"/> Other               |

If no letters or numbers are listed write title of course \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City-State-Zip \_\_\_\_\_

The University of Minnesota adheres to the principle that all persons shall have equal opportunity and access to facilities in any phase of University activity without regard to race, creed, color, sex or national origin. Under this principle, education, cultural, social, housing, extra-curricular, and employment opportunities are available to all on an equal basis.

**UNIVERSITY OF MINNESOTA**  
**Health Sciences Continuing Education**  
**7208 Powell Hall**  
**Minneapolis, Minn. 55455**

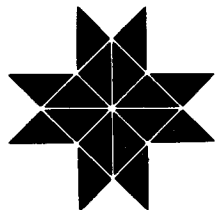
Non-Profit Organization

U.S. Postage

**PAID**

Permit No. 811

Minneapolis, Mn.



**CONTINUING EDUCATION**

for the

**HEALTH PROFESSIONS**

**1974-1975**

**Programs**