


1995

## Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1995-1996

University of Nebraska Medical Center

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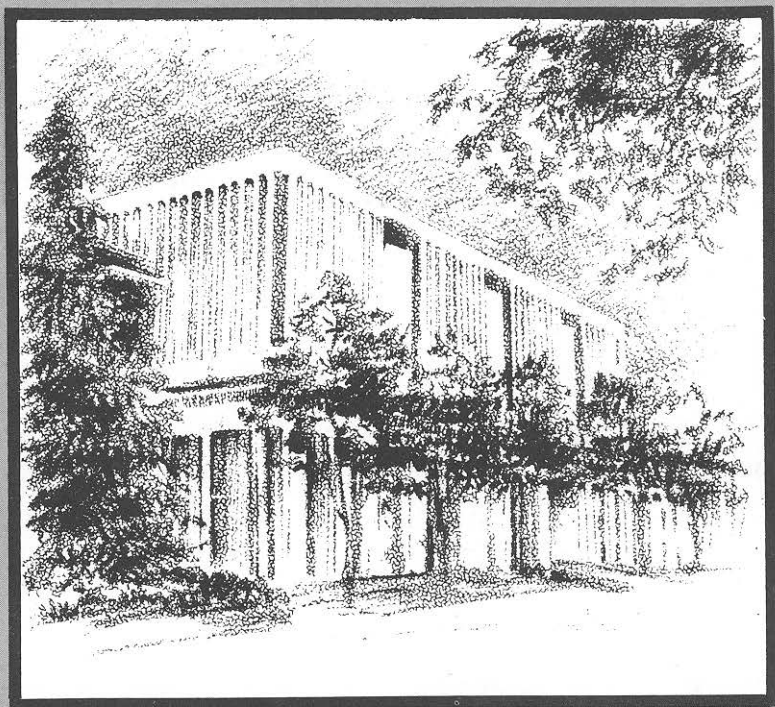
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College of  
Medicine  
Bulletin

University of Nebraska Medical Center  
College of Medicine



This bulletin provides information about the educational programs offered through the University of Nebraska Medical Center's College of Medicine. The UNMC faculty, the administration and the University of Nebraska Board of Regents have authorized statements presented in this bulletin as indicating current requirements; practices and procedures for application for admission to the College and the Medical Center; admission requirements; course offerings; requirements for graduation; tuition and fees; and costs for education. Acceptance of registration by the University of Nebraska and admission to any educational program of the University does not constitute a contract or warranty that the University will continue indefinitely to offer the program in which a student is enrolled. The University expressly reserves the right to change, phase out, or discontinue any program.

In accordance with University policy, UNMC prohibits the denial of admission or of Medical Center privileges to students or applicants on the basis of race, color, sex, national origin, age, handicap or religious or political beliefs. These privileges include but are not limited to admission, class assignments, scholarships, fellowships, assistantships, and financial aid, as well as housing and recreational facilities. Furthermore, student organizations must base their selection of students for membership on criteria which will not include race, color, religion, sex, national origin, age or handicap.

Admittance to UNMC programs will not be denied to otherwise handicapped individuals solely by reason of their handicap. Qualified handicapped persons are those who meet the academic and technical standards required for participation in the specific educational program. Technical standards for the College of Medicine are provided in the section on admission.

In summary, UNMC policies are in accord with:

Title VI of the Civil Rights Act of 1964

Title IX of the Educational Amendments of 1972

Section 503 and 504 of the Rehabilitation Act of 1973

Sections 799A and 854 of the Public Health Services Act

UNMC has an Affirmative Action Officer who works closely with the Office of Student Services to insure that these policies are supported on campus.

The University of Nebraska Medical Center reaffirms its position that an equitable and responsible environment must be maintained for all of its employees and students. Such an environment includes the right of individuals to discharge their respective responsibilities free from unsolicited and unwelcome sexual overtures by any employee (whether that employee serves in a supervisory, co-worker or instructional capacity). Therefore, it is the policy of the Medical Center that sexual harassment will not be condoned, and that prompt and appropriate corrective action will be taken against any employee found to be in violation of this policy. Prompt and appropriate corrective action will likewise be taken in instances of irresponsible, false accusation of sexual harassment.

**95-96**

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**College of**  

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**Medicine**  

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**Bulletin**  

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**University of Nebraska Medical Center  
College of Medicine**



UNIVERSITY OF NEBRASKA  
MEDICAL CENTER  
WITTSON HALL

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## A WELCOME MESSAGE FROM THE DEAN

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The mission of the University of Nebraska College of Medicine is to improve the health of Nebraskans through premier education programs, innovative research, the highest quality patient care and outreach to underserved populations. We strive to be a regional and national leader in the education of primary care health professionals in the application of information technology to health care, and in research and clinical services related to cancer, transplantation, genetics, rural health and other major areas of health care need.

Health care in the U.S. is undergoing great change. There is little doubt that the future will bear little resemblance to the past. The future must comprise the underlying core values of excellence and innovation. Major forces that will promote excellence and innovation are the personal clinical relationship between the health professional and a patient, the direct relationship between medical research and medical progress and the education and dedication of the health professional.

Our goal is to prepare undergraduate, graduate and post graduate health profession students to be at the forefront of medicine whether they choose careers as medical practitioners, clinical or laboratory-based health sciences researchers, medical educators or public health servants. Moral integrity, high ethical values, compassion for the sick and poor, and a deep sense of commitment to lifelong dedicated service and self-directed learning are personal characteristics and humanistic qualities expected of health professionals. Intense professional and personal gratification is derived from helping to restore health to the mind and body of patients, or by pursuing scientific and teaching excellence, or through the social value of dedicated community service.

The College of Medicine enjoys a distinguished record of excellence in medical education. Our innovative medical curriculum provides early exposure to patient care. The spectrum of these clinical experiences are carefully integrated into and correlated with basic medical sciences subject matter in the first two years. Traditionally, in the past, these two years of the curriculum have been dedicated almost exclusively to basic science courses. Unique components of the integrated clinical experience include clinical problem-based learning in small groups, the use of "standardized" patients as case examples, a longitudinal clinical experience assigned to a primary care physician and a block clinical rotation in rural Nebraska. The integration of subject matter continues in the last two years, but this time, basic sciences are woven into the clinical clerkships to reinforce their importance to the understanding of pathophysiology and therapeutics. A few selected students might choose a combined M.D./Ph.D. program that has a reputation of producing academic physicians and thus provides opportunities for research education.

Beyond acquiring the knowledge, skills and experience, new roles and new behaviors will be required in a reformed health care system that emphasizes "customer" satisfaction, practice efficiency, cost management, preventive medicine, teamwork and spirit of collaboration of health professionals in the managed care setting.



These are uniquely exciting and rewarding times to enter the field of medicine. The University of Nebraska College of Medicine is responsive to society's needs as an academic leader shaping the future of health care education, research and patient service through the accomplishment of its mission.

We welcome qualified, talented and highly motivated applicants who view this challenge as their "calling" to serve their fellow citizens.

*Harold M. Maurer, M.D.*

Harold M. Maurer, M.D.  
Dean  
College of Medicine



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# GOVERNANCE OF THE UNIVERSITY OF NEBRASKA

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## **The Board of Regents**

Donald S. Blank, D.D.S., McCook  
Charles Wilson, M.D., Lincoln  
Nancy O'Brien, Ph.D., Elkhorn  
Drew Miller, Omaha  
Robert M. Allen, Hastings  
Rosemary M. Skrupa, Omaha  
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Chuck Hassebrook, Walt Hill

Kory Barr, UNMC  
David Barga, UNK  
Shawntell Hurtgen, UNL  
Justin Peterson, UNO

## **University of Nebraska Central Administration**

L. Dennis Smith, Ph.D., President  
Lee B. Jones, Ph.D., Executive Vice President and Provost  
James C. Van Horn, Ph.D., Vice President for Business and Finance  
Lee Rupp, Vice President and Director of Legislative Affairs

## **University of Nebraska Medical Center Administration**

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William O. Berndt, Ph.D., Vice Chancellor for Academic Affairs  
Donald S. Leuenberger, Vice Chancellor for Business and Finance  
Harold M. Maurer, M.D., Dean, College of Medicine  
Clarence T. Ueda, Ph.D., Dean, College of Pharmacy  
Ada Lindsey, Ph.D., Dean, College of Nursing  
William O. Berndt, Ph.D., Dean, Graduate Studies and Research  
Bruce A. Buehler, M.D., Director, Meyer Rehabilitation Institute  
Raymond W. Ruddon, M.D., Ph.D., Director, Eppley Institute for Research in  
Cancer and Allied Diseases  
C. Edward Schwartz, M.H.A., Director, University Hospital  
William F. Gust, M.D., Director, Center for Continuing Education  
Delmer D. Lee, B.S., Associate Vice Chancellor, Business and Finance  
David S. Carver, Ph.D., Director, Student Services  
Gardner Van Dyke, Ph.D., Director, Academic Records/Special Programs  
Robert D. Barte, Executive Assistant to the Chancellor  
Reba A. Benschoter, Ph.D., Director, Biomedical Communications  
Nancy N. Woelfl, Ph.D., Director, Library of Medicine  
Delmer D. Lee, B.S., Associate Vice Chancellor, Business and Finance  
Arnold J. Menning, Ph.D., Interim Director, Financial Aid

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## COLLEGE OF MEDICINE

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Harold M. Maurer, M.D., Dean, College of Medicine  
Ward A. Chambers, M.D., Associate Dean, Clinical Affairs  
Mary C. Haven, M.S., Associate Dean, Allied Health Professions  
Irene Klintberg, Ph.D., Associate Dean, Administration  
James Linder, M.D., Associate Dean, Academic and Faculty Affairs  
John J. Matoole, M.D., Associate Dean, Veterans' Affairs  
C. Kirk Phares, Ph.D., Associate Dean, Research and Development  
Robert S. Wigton, M.D., Associate Dean, Graduate Medical Education  
J. Calvin Davis, III, M.D., Assistant Dean, Student and Multicultural Affairs  
Jeffrey W. Hill, M.D., Assistant Dean, Admissions  
Gerald F. Moore, M.D., Assistant Dean, Curriculum  
John R. Windle, M.D., Assistant Dean, Continuing Medical Education

### DEPARTMENT CHAIRMEN

#### **Anesthesiology**

Myrna C. Newland, M.D. (Interim)

#### **Biochemistry and Molecular Biology**

Judith K. Christman, Ph.D.

#### **Cell Biology & Anatomy**

Thomas H. Rosenquist, Ph.D.

#### **Family Medicine**

Michael Sitorius, M.D.

#### **Internal Medicine**

James O. Armitage, M.D.

#### **Obstetrics and Gynecology**

McClure L. Smith, M.D.

#### **Ophthalmology**

Michael E. Yablonski, M.D., Ph.D.

#### **Orthopedic Surgery and Rehabilitation**

James R. Neff, M.D.

#### **Otolaryngology-Head and Neck Surgery**

Anthony J. Yonkers, M.D.

#### **Pathology and Microbiology**

Samuel M. Cohen, M.D., Ph.D.

#### **Pediatrics**

Bruce A. Buehler, M.D.

#### **Pharmacology**

David B. Bylund, Ph.D.

#### **Physiology and Biophysics**

Irving H. Zucker, Ph.D.

#### **Preventive and Societal Medicine**

James R. Anderson, Ph.D.

#### **Psychiatry**

David G. Folks, M.D.

#### **Radiology**

Thomas J. Imray, M.D.

#### **Radiation Oncology**

Glenn V. Dalrymple, M.D. (Interim)

#### **Surgery**

Layton F. Rikkers, M.D.

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## THE UNIVERSITY OF NEBRASKA

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The University of Nebraska Medical Center is one of four campuses of the University of Nebraska: the University of Nebraska Medical Center (UNMC), the University of Nebraska-Lincoln (UNL), the University of Nebraska at Omaha (UNO), and the University of Nebraska at Kearney (UNK). An eleven-member Board of Regents insures that the University meets its goals of quality instruction, research, and public service for the citizens of the state.

### THE UNIVERSITY OF NEBRASKA MEDICAL CENTER

This modern medical center is a major health resource for the State of Nebraska and surrounding areas. Several integrated units fulfill the mission of the University of Nebraska Medical Center: the College of Medicine, the College of Nursing, the College of Pharmacy, the College of Dentistry, Office of Graduate Studies and Research, the Meyer Rehabilitation Institute, the Eppley Institute for Research in Cancer and Allied Diseases, University Hospital, and University Medical Associates. The School of Allied Health Professions is part of the College of Medicine.

### COLLEGE OF MEDICINE

The College of Medicine offers several major educational programs: a course of medical studies leading to the degree of Doctor of Medicine; residencies and fellowships in the clinical specialties (Graduate Medical Education); educational opportunities for physicians in practice (Continuing Medical Education), and training in other allied health professions.

#### Undergraduate Medical Education

The College of Medicine offers a fully accredited program leading to the degree of Doctor of Medicine. The College also offers the degree of bachelor of science in medicine to medical students who have completed one or two years of medical school and transfer credits from their undergraduate institution.

#### Graduate Medical Education

Medical education is a continuing process that begins in medical school and continues through the professional life of the physician. Medicine offers many exciting career choices. Graduating seniors from UNMC participate in the National Resident Matching Program to obtain first year residency positions. They have been highly successful in obtaining the residency programs throughout the United States, with the majority choosing primary care training in Nebraska.

The College of Medicine offers residency programs in Anesthesiology, Child Psychiatry, Family Medicine, Internal Medicine, Neurology, Neurosurgery, Obstetrics and Gynecology, Ophthalmology, Oral Surgery, Orthopaedic Surgery, Otolaryngology, Pathology, Pediatrics, Primary Care, Psychiatry, Radiology, Surgery, and Urology. These programs are integrated with affiliated community hospitals to provide a broad experience in graduate medical education.

## Continuing Medical Education

The College provides continuing education for practicing physicians, nurses, and those in the allied health professions. The Medical Center offers over 125 on-campus courses each year. Medical students are welcome to attend most scheduled programs. The Medical Center also brings continuing medical education to physicians and other health workers in their own hospitals through off-campus courses, and two-way television and telephone conferences involving the College of Medicine faculty and hospitals throughout greater Nebraska.

## School of Allied Health Professions

The School of Allied Health Professions within the College of Medicine offers the following baccalaureate, masters and post-baccalaureate certificate and certificate programs:

Physician Assistant Education .....	Master of Physician Assistant Studies
Physical Therapy Education .....	Master of Physical Therapy
Biomedical Communications Education .....	Post-baccalaureate certificate
Clinical Perfusion Science .....	Post-baccalaureate certificate
Cytotechnology .....	Post-baccalaureate Certificate
Medical Nutrition Education .....	Post-baccalaureate certificate
Diagnostic Medical Sonography .....	Bachelor of Science
Medical Technology .....	Bachelor of Science
Nuclear Medicine Technology .....	Bachelor of Science
Radiation Therapy Technology .....	Bachelor of Science
Radiography .....	Bachelor of Science

## Graduate College

The Graduate College of the University of Nebraska conducts programs on each of the four University of Nebraska campuses. Programs at the Medical Center campus leading to the M.S. and Ph.D. degrees are as follows:

Biochemistry and Molecular Biology .....	M.S., Ph.D.
Cell Biology and Anatomy .....	M.S., Ph.D.
Dentistry Interdepartmental Area .....	M.S.
Medical Sciences Interdepartmental Area .....	M.S., Ph.D.
Nursing .....	M.S.N., Ph.D.
Pathology and Microbiology .....	M.S., Ph.D.
Pharmacology .....	M.S., Ph.D.
Physiology .....	M.S., Ph.D.

In addition, there are Interdisciplinary Training Programs in Cancer Research, Environmental Toxicology and Carcinogenesis, and Pharmacological Sciences.



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## GENERAL INFORMATION

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### History

The Legislative Act of February 15, 1869 that created the University of Nebraska provided for a college of medicine. The University of Nebraska College of Medicine was established at Lincoln in 1883, but closed when the legislature withdrew support in 1887. The Omaha Medical College, started in 1881, was the forerunner of the present College of Medicine. It became a part of the University of Nebraska in 1902. From 1902 to 1913, the first two years of the four-year medical course were held in Lincoln and the last two years in Omaha. Since 1913, all 4 years have been taught in Omaha. The College has had a distinguished record of excellence in medical education and its graduates have excelled in all areas of medical practice, research and teaching.

### Standing

The College of Medicine meets all requirements of the most exacting state examining and licensing boards. It is fully accredited by the Liaison Committee on Medical Education. The College has developed new programs to improve health services for the citizens of the State. The Geriatric Program meets needs of elderly patients and provides training for students. The Swanson Foundation Center for Human Nutrition promotes nutrition teaching and conducts research in nutrition and related fields. The Medical Center's eating disorders program provides comprehensive medical and mental care. The liver and bone marrow transplant programs have become national leaders in patient care and research and draw patients from all over the world. The Sky-Med helicopter transport service speeds transfer of acutely ill patients from distances up to 200 miles from Omaha to the teaching services of the University Hospital. Clinical faculty members make consulting visits to smaller communities in Nebraska and residents and students do part of their training in these communities in order to gain experience in the community practice of medicine in addition to their training in the large medical center.

### Educational Goals

The goals of the College of Medicine are to provide the best possible training both in the science and art of medicine for students with the dedication and ability to become working practitioners of the healing arts.

Education at the College of Medicine sets high standards for its students who, as a result, are recognized throughout the country as highly skilled practitioners with superior clinical ability. Over 85% of the graduates of the College of Medicine obtain one of their top three choices of residency programs nationwide.

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## LEARNING FACILITIES

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### Clinical Facilities

University Hospital and clinics provide extensive inpatient and outpatient services on campus. Students participate in ambulatory patient care as part of their clinical education. Among the sixty clinics are Internal Medicine, Surgery, Pediatrics, Obstetrics and Gynecology, and all of their subspecialty services. In addition, the Departments or Sections of Ophthalmology, Otolaryngology, Orthopaedic Surgery and Rehabilitation, Neurology, Urology, and Family Practice have outpatient clinics. The Emergency Department is a regional trauma center and is an important part of the educational experience. Psychiatric clinics are operated by the University Hospital and the University Psychiatric Services.

The Meyer Rehabilitation Institute, also located on the Medical Center Campus on 44th Street, provides specialized diagnostic and rehabilitative services for the handicapped child. The University operates the Family Health Center, the Harvey Oaks Medical Associates, Summit Plaza Medical Associates, Benson Park Medical Associates, and other clinics throughout Omaha..

### Affiliated Hospitals

To enhance its educational opportunities, the College has affiliations with community hospitals throughout the state. The Omaha Veterans Affairs Medical Center is fully integrated into the educational programs of the College of Medicine including two-way, closed-circuit television communication. Four private hospitals also are affiliated with the College of Medicine: Childrens Hospital, Bishop Clarkson Memorial Hospital, Immanuel Hospital, and Methodist Hospital.

### Library of Medicine

The Leon S. McGoogan Library of Medicine is one of the country's major health resource libraries. It occupies 64,800 square feet in Wittson Hall. Its central location reflects the concept of the library as a catalyst for all activities on the campus. The collection numbers over 200,000 volumes, with a current journal list of over 2,100 titles. The library's catalog of books, journal holdings, and a local network of Medline and other health related databases can be searched 24 hours a day from on campus and off, using a distributed campus computing network and by dialing in from homes and offices. Multimedia materials for computer-assisted and self-instruction in curricular fields are collected and made available in the Sievers Facility for Interactive Instruction and its adjacent Learning Resources Center. Reference and educational services provide assistance and instruction with information needs, self-searching of numerous health related databases and in understanding the concepts and scope of medical information management. Document delivery and interlibrary borrowing are also available, as are special services such as dissertation binding and medical and consumer health information services for the state of Nebraska. The library is the management headquarters for a six-state region of the National Library of Medicine. This offers unlimited opportunity for the pursuit of research and study through the resources of the national network. User fees are charged for some of the services provided by McGoogan and the NN/NLM.

## Laboratory Facilities

The gross anatomy laboratory is located on the second level of Wittson Hall. Nearby is a modern audiovisual room with a wide variety of auto-instructional materials. A multi-disciplinary laboratory located on the third floor of Wittson Hall is used for laboratory experience in histology, neuroanatomy, microbiology and pathology courses.



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## ADMISSIONS

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### Educational Requirements

A strong background in both the humanities and the natural sciences is recommended for prospective students of medicine. Familiarity with the humanities and social sciences, which puts physicians in touch with society and helps them gain understanding and compassion so basic to the art of healing, is indispensable because of the growing complexity of society. However, the rapid development of medicine as an applied science also requires suitable preparation in scientific and mathematical disciplines.

The pre-professional education period is too early to expect students to have determined their ultimate goals in medicine. However, if students have tentative plans to engage in some aspects of biological research, they are encouraged to develop depth in the natural sciences and mathematics. Students who tentatively plan to engage primarily in clinical practice will benefit from a broad background in the humanities and social sciences and may want to consider a concentration in a field other than science.

### High School

A strong college preparatory course is recommended. Students should consider scheduling four years of English, as many liberal arts, mathematics and science courses as possible.

### Requirements for Entrance

A minimum of 90 semester hours (3 years college work) in an accredited liberal arts and science is required. However, to provide an opportunity for in-depth study, the completion of a college major or undergraduate degree is strongly recommended. Applicants are required to submit scores from the Medical College Admission Test (MCAT). MCAT scores from tests taken prior to 1991 will *not* be accepted.

The undergraduate program must include the following:

<i>Course</i>	<i>Semester Hours</i>
<b>Biology (With Lab)</b>	<b>1 year</b>
Two semesters of general biology or zoology with laboratory will meet this requirement.	
<b>General Chemistry (With Lab)</b>	<b>1 year</b>
<b>Organic Chemistry (With Lab)</b>	<b>1 year</b>
The requirement is for two semesters of general or inorganic chemistry (analytical chemistry may serve as part of this requirement) and a two-semester complete course in organic chemistry.	
<b>Physics (With Lab)</b>	<b>1 year</b>
This should include a two-semester complete course in physics.	
<b>Humanities</b>	<b>2 years</b>
To fulfill this requirement, broad introductory courses in at least four disciplines in the social sciences or humanities should be considered unless one of the social sciences or humanities is selected as the major field of study.	
Courses in the following may be used to fulfill this requirement: Anthropology, Art History, Classics, Economics, History, Literature (English or foreign), Music Literature, Music Theory, Philosophy, Political Science, Religion (general or comparative), Sociology.	

### English Composition

Students must complete a writing course or an English composition course. Students may not substitute a placement examination for this requirement.

### Mathematics

This must include material through introductory calculus OR a course in statistics.

Besides meeting specific requirements, applicants are encouraged to adopt an educational goal which includes exploration of areas of personal interest. This may vary from a thorough investigation of the natural sciences to the social sciences and humanities. In view of the rapidly broadening scope of medicine, a well-rounded education is considered optimum preparation.

Hours earned in professional colleges or schools which hold both regional collegiate accreditation and professional accreditation may be applied to the "90 hour general requirements." Examples of institutions referred to are Engineering and Technology, Collegiate Nursing, Pharmacy, Physical Therapy and other programs in the Allied Health area. Hours may not be applied to specific group requirements for admission to the College of Medicine unless investigation (or previous UNMC experience) verifies that course content has been found equivalent to approved pre-professional courses offered by traditional undergraduate liberal arts colleges.

The Admissions Committee will accept advanced placement credit and CLEP Subject Examination credit toward the College of Medicine's specific group requirements if the reported scores meet the Medical Center's requirements for transfer, the undergraduate college has awarded credit which appears on the transcript, and the applicant completes the subsequent (next) course in the related discipline at his/her undergraduate college. Information regarding college credit by examination is available from the Academic Records Office.

The Admissions Committee of the College of Medicine will *not* accept Pass-Fail grades toward the required courses and discourages applicants from taking more than 10 hours of Pass-Fail courses toward the 90-hour group requirements.

In a situation where an applicant does not have the option of grades and only Pass-Fail courses are available, special consideration will be given if the applicant can produce a written evaluation of each course taken on a Pass-Fail basis.

### **Application for Admission**

Admission to the College of Medicine is granted without regard to age, handicap, sex, race, color, national origin, or religious or political beliefs.

The College is deeply concerned about underserved rural and multicultural communities in the state. Research data shows that candidates emanating from those areas are likely to return. The Admissions Committee gives particular attention to under represented multicultural applicants. Applications are encouraged from resident and non-resident Black Americans, American Indians, Mainland Puerto Ricans and Mexican Americans. In addition, applicants from counties with total population under 25,000 are strongly encouraged to apply.

In considering scholastic records of applicants, attention is given to both the quality of performance and to the rigor of the academic programs. Consideration is given also to appraisals of character, personal interviews, and scores on the Medical College Admission Test.

### **Technical Standards**

The Admissions Committee considers, without bias, all applicants who meet the following technical standards:

1. The physical ability to master the skills involved in the independent practice of medicine.
2. The ability to communicate effectively with patients, peers and other members of the health care community.
3. The emotional stability to cope with the demands that characterize the practice of medicine.



## **Application Procedures**

The University of Nebraska College of Medicine is a participant in the American Medical College Application Service (AMCAS) of the Association of American Medical Colleges. Application request cards are available from pre-medical advisors and from participating medical schools. Requests should be directed to the Office of Academic Records, University of Nebraska Medical Center, 600 South 42nd, Box 984230, Omaha, Nebraska 68198-4230.

Complete instructions for proceeding with the application accompany the application packet received from the above source. Careful attention to all details listed will expedite the handling of applications. Changes in residency status cannot be implemented during the time an application is being considered. The application will be processed by AMCAS and forwarded to the University of Nebraska College of Medicine.

Upon receipt of an application from AMCAS and preliminary screening, the College of Medicine will request letters of reference, a photograph, and supplementary information of all state residents and some out-of-state residents. No processing of your materials will occur until both the application materials and all required official transcripts are received by AMCAS. Deadline for receipt of applications by AMCAS is November 15, 1995 for 1996 admission. The deadline date is firm and no exceptions will be permitted. An application processing fee of \$25.00 is assessed to all applicants. This fee is nonrefundable and is required before the application can be processed.

An official interview with a member of the Admissions Committee of the College of Medicine is required for all Nebraska residents. Selected non-residents are interviewed by invitation only. Interviews are necessary to complete your application file/ Detailed information regarding interviews will be sent to applicants when the AMCAS application is received. Your application materials and MCAT scores do not have to be in before you are interviewed.

The primary objective of the interview is to focus on the applicants personality, general functioning and capabilities; not upon intellectual achievements. Some general characteristics of the applicant including academic and non-academic interests and goals in life both as a professional person and in other areas of social interaction are also the focus of attention.

## **Re-Applicants**

All re-applicants must reapply through AMCAS as outlined above. Re-applicants are strongly encouraged to identify, if possible, any factors which influenced the unfavorable decision and to alter them before re-applying.

## **Admissions Committee**

The Admissions Committee meets weekly from December until April. Notices of acceptance, rejection, or "hold" are sent weekly to those candidates who were considered. Applicants on hold are given reconsideration in April. The remaining positions in the class are filled and an alternate list is developed from among those applicants not offered a position.

## **Advanced Standing**

The University of Nebraska College of Medicine does not offer transfer or advanced standing to students from foreign medical schools, dental colleges or graduate programs.

If a vacancy exists, application for admission with advanced standing to the third year only will be considered from students attending medical schools accredited by the Liaison Committee on Medical Education (LCME), provided the applicant is eligible for advancement in the medical school of previous enrollment and provided that there are compelling reasons for requesting transfer. The College of Medicine does not accept applicants from schools which are not approved by the Liaison Committee or from other professional schools or graduate programs.

Acceptance is contingent upon passing the 1st phase of the USMLE test prior to their junior clerkship rotations.

Applications for advanced standing may be obtained from the Office of Academic Records, University of Nebraska Medical Center, 600 South 42nd Street, Box 984230, Omaha, Nebraska 68198-4230. The application process will require an interview with a member of the Admissions Committee.

An application fee of \$25 is required. The fee is nonrefundable and is not applicable to tuition if the student is accepted for admission. The student must furnish evidence of satisfactory completion of courses equivalent in kind and amount to those taken by the class to which admission is sought. The student must be eligible for promotion at his/her own school and must also present a letter of recommendation from the dean of the medical school last attended. The College of Medicine reserves the right in every case to give examinations in any or all subjects in which credit is requested.

If a vacancy exists, application for admission with advanced standing, to the third year only, will be considered from students attending medical schools accredited by the Liaison Committee on Medical Education (LCME), provided the applicant is eligible for advancement in the medical school of previous enrollment and provided that there are compelling reasons for requesting transfer. **However, acceptance will be contingent upon successful completion of USMLE, part one, prior to beginning junior-year clinical rotations.**

**Students who have been dismissed from this or another medical school may not be considered for admission to this College of Medicine.**

### **Credit for Advanced Standing**

According to Board of Regents policy, the Director of Academic Records of the Medical Center will maintain a record of names and credit hours of courses taken at other colleges of medicine, but grades received in courses presented for advanced standing credit will not appear on the permanent record sheet of the student.

The educational program of students admitted for advanced standing in the College of Medicine will be reviewed by the faculty of the College of Medicine. The faculty will decide about the applicability of each course toward the requirement for graduation.

### **Residency Status**

In order to be considered as Nebraska residents, students who reside or whose parents reside in a state other than Nebraska, or who has moved to Nebraska within the past three years must apply for resident status. For full information as well as application forms for residency please write to the Office of Academic Records, University of Nebraska Medical Center, 600 South 42nd, Box 984230, Omaha, Nebraska 68198-4230.

## **Registration and Admission to Classes**

When an applicant receives notice of acceptance for entrance into the College of Medicine, the applicant's response to the acceptance offer must be received within two weeks. A deposit of \$100.00 to hold a position as a member of the class must be received within 14 days. The pre-enrollment deposit is applicable to tuition. Of the \$100.00 deposit, \$80.00 will be refunded to the student who finds it necessary to withdraw during or prior to the first week of classes.

All men and women planning to attend the University of Nebraska Medical Center under Chapters 31, 34 and 35 of the Educational and Assistance and Vocational Rehabilitation Laws administered by the Veterans Administration should inquire at the Office of Academic Records of the University of Nebraska Medical Center before they register to make sure that all necessary steps have been taken.

Registration for first-year students is accomplished at orientation. Registration for subsequent semesters will be completed approximately two weeks preceding the beginning of each semester. Any change in registration during the first two years must be approved by the Associate Dean for Academic Affairs or recommended by the Scholastic Evaluation Committee.

Each student enrolling in the College of Medicine agrees to meet the normal requirements for fulfillment of educational training, including attendance at classes, sitting for core/conjoint examinations, laboratory and comprehensive examinations, and meeting clerkship requirements under the normal schedules. Implied in the acceptance is the understanding that medical education will take precedence over other activities. In addition, each enrolling student agrees to comply with the required protective measures designed by the Medical Center to prevent exposure to environmental hazards and to infectious diseases. At the same time, each enrolling student agrees with the principle that no enrolled student may refuse to care for a particular patient who may have an infectious or hazardous condition.

## **Special Admissions Programs**

Each year a small number of students enter the University of Nebraska College of Medicine through special admissions programs. There are three such programs: the Rural Health Opportunities Program (R.H.O.P.), the Multicultural Vantage Program (M.V.P.), and the M.D./Ph.D. program. The R.H.O.P. selects applicants from rural backgrounds to enter a minimum of three years at a state college followed by entry into the College of Medicine. Applicants for the R.H.O.P. are selected in particular for the intent to enter primary care and to return to a rural area to practice. The M.V.P. selects students from diverse multicultural backgrounds to enter into a minimum of three years at a university followed by entry into medical school. The undergraduate college or university awards the baccalaureate degree, following the first year of medical school, to students in these programs. The M.D./Ph.D. program selects students from among those already accepted for entry into medical school, who have outstanding academic credentials and who have demonstrated outstanding potential for a career in academic medicine and research. This program spans a minimum of seven years from entry into medical school.

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## CURRICULUM

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The four year course of studies leading to the degree of Doctor of Medicine is designed by the faculty to provide the best possible training for future practitioners. The curriculum ensures that students develop the understanding, clinical skills and knowledge needed for residency training and practice.

The Nebraska graduate develops superior skills in problem solving and clinical reasoning, extensive knowledge of the biomedical and psychosocial sciences and learns skills needed for lifelong learning of medicine.

Courses in the first two years introduce students to the basic sciences of medicine: anatomy, behavioral science, biochemistry, microbiology, pathology, pharmacology and physiology. Here students also begin to learn clinical skills and reasoning. In the third and fourth years students apply their knowledge on the hospital wards and clinical offices. Under faculty guidance students develop clinical diagnostic and management skills. They learn to select clinical tests and prescribe therapies. They learn to provide comprehensive care and learn the art of medicine. During the third year, students take clinical clerkships in family practice, internal medicine, obstetrics and gynecology, pediatrics, psychiatry, and surgery. In the fourth year, students select from a variety of clinical and basic science experiences. To qualify for graduation, students must show that they have acquired the knowledge, skills, and attitudes necessary for residency training.

Students get early experience in medical problem solving through preceptorships and through clinical case study in small groups. At the beginning of medical school, students work in small groups with a faculty member to solve clinical cases. This initial exercise helps develop the library and information retrieval skills they will need in their medical studies.

Case study and small group teaching emphasizing problem-based learning are becoming more prominent features of all of the basic science courses. Since 1986, simulated patients have been used to supplement the clinical experience of medical students. These trained patient simulators are used to teach and evaluate history taking and physical examination skills. All these changes are making medical education more relevant to patient care and medical practice.

The Curriculum Committee, with student representation, is responsible for curricular change and evaluation. All courses must have written educational goals and objectives.

### **Auditing Courses**

Medical students may audit a course if they have permission of the instructor and the Dean of the college in which the course is offered. The student must meet prerequisites and there must be adequate space and facilities for the additional student. NO one may audit clinical clerkships. Auditors do not receive academic credit. Application forms for auditing courses are available from the Department of Academic Records, Room 3020, Conkling Hall. This form must be completed by the fifth day of the current term. The fee for auditing a course is one-half of the full course fee.

## **Research Opportunities for Students**

The Medical Center offers many opportunities for medical students to participate in research projects. Summer research experiences are available in many areas. Many students continue research throughout the school year and may also take research electives during the clinical years. All students are encouraged to do some research so they can feel the excitement and challenge of biomedical research at the frontiers of medical knowledge and practice.

### **1. Student Research Stipends**

Student research stipends are available on a competitive basis for students who wish to commit a block of time to pursuing a research project. The application process involves being matched with a faculty member, preparing and submitting a research proposal to the Research and Development Committee for review and, if approved, committing a summer of effort to the project. The Associate Dean for Research and Development can provide a list of interested faculty and their research interests, as well as information on financial support for research in the College of Medicine or at other institutions.

### **2. Honors Thesis**

All students who maintain at least a "B" average and whose grades place them in the upper 40% of their class are eligible to write a thesis as an optional part of the medical studies. This program was established to encourage students to go beyond the standard curriculum by developing a project that will lead to a significant research experience or substantially different clinical competence than that developed in the normal curriculum. The research proposal for the thesis must be submitted to the Associate Dean for Research and Development before the first day of February of the Junior year. The thesis is due on or before the seventh day of January of the senior year. The research proposal is evaluated for scientific merit, and after approval, the project is completed and the thesis is written. The Research and Development Committee evaluates both the research proposal and the thesis, and advises the Scholastic Evaluation Committee. The thesis must be submitted before the first day of February of the Senior Year. A thesis judged to be of honors quality may qualify the student for graduation with honors distinction. Information about this program can be obtained from the Associate Dean for Research and Development.

### **3. Student Research Forum**

Each year, the Medical Center sponsors a Student Research Forum. Students present scientific papers or posters describing their laboratory or clinical research experiences. Outstanding presentations are selected to represent the Medical Center at regional and national student research meetings.

### **4. M.D. / Ph.D. Scholars Program**

The M.D./Ph.D. Scholars Program is designed to prepare a select group of outstanding students for careers in academic medicine and research. Students admitted to this highly competitive program pursue original research in the laboratories of the graduate faculty and participate in the medical school curriculum. The integrated training for both degrees allows compression of the total academic effort as some coursework can be applied to both degrees.

The training program begins during the summer prior to the first year of medical school with participation in the Summer Research Program. The student will participate in research in one to three laboratories in one or more departments



with Ph.D. granting programs. The purpose of these laboratory rotations is to enable the student to decide on a specific research preceptor.

In addition to the coursework of a first-year medical student, extra clinical activities will be required of the M.D./Ph.D. Scholars student. He/she will attend special research seminars and interact with faculty at informal research discussions. By the end of the first year of medical school, if not before, the student will decide on a specific graduate program and a specific research preceptor. During the summer between the first and second years of medical school, the student will begin initial studies on a specific research topic selected by the student in conjunction with his/her preceptor.

Typically, after completing the second year of the medical curriculum and passing Step I of the USMLE, the student will enter the selected program as a full-time graduate student. Three or four years will be required to complete additional coursework in the graduate program, the departmental comprehensive exam, and independent research leading to a Ph.D. dissertation. After completion of the Ph.D., the student will rejoin the medical class as a third year student and complete the last two years of clinical training. The combined M.D./Ph.D. Scholars Program will involve, on average, a total of seven years.

### **Application**

Undergraduate students with exceptional academic qualifications and research potential may apply for the M.D./Ph.D. Scholars Program. Qualified individuals should make their interests known at (or before) the time of application to the College of Medicine. In addition to their normal application materials, the student must clearly indicate an interest in the M.D./Ph.D. Scholars Program, include two letters of reference provided by individuals qualified to evaluate the student's research potential, and include a letter written by the student describing research interests, career goals, and he/she is qualified for the program.

Whereas students must gain admission to both the College of Medicine and the Graduate College, only a single application and fee is necessary. Although not required, Graduate Record Examination (GRE) scores will help the committee in its evaluation of applicants.

### **Financial Support**

Financial benefits and/or direct financial support for both medical and graduate studies will be awarded to students accepted into the program. Financial support during the Ph.D. portion of the program will be provided for each student by the specific graduate program and/or research preceptor.

Contact the Associate Dean for Research and Development (4020 559-4283 for additional information.

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# UNIVERSITY OF NEBRASKA COLLEGE OF MEDICINE

## ACADEMIC CALENDAR 1995-1996

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### SEMESTERS

First Semester (M1-M2)	August 21, 1995 - December 15, 1995
First Semester (M3-M4)	July 3, 1995 - December 15, 1995
Second Semester (M1-M2)	January 2, 1996 - April 30, 1996
Second Semester (M3)	January 2, 1996 - June 25, 1996
Second Semester (M4)	January 2, 1996 - April 28, 1996

### SENIOR ELECTIVE PERIODS

July	July 3, 1995 - July 30, 1995
August	July 31, 1995 - August 27, 1995
September	August 28, 1994 - September 25, 1995
October	September 25, 1995 - October 22, 1995
November	October 23, 1995 - November 19, 1995
December	November 20, 1995 - December 15, 1995
January	January 2, 1996 - January 28, 1996
February	January 29, 1996 - February 25, 1996
March	February 26, 1996 - March 24, 1996
April	April 1, 1996 - April 28, 1996
Commencement	May 4, 1996 (Saturday)

### RECESSES AND HOLIDAYS

Independence Day	July 4, 1995
Labor Day	September 4, 1995
Thanksgiving (Clinical)	November 23, 1995
Thanksgiving (Pre-Clinical)	November 23-24, 1995
Winter Recess (Clinical)	December 16, 1995 - January 1, 1996
Winter Recess (Pre-Clinical)	December 16, 1995 - January 1, 1996
Spring Recess (Pre-Clinical)	March 25, 1996 - March 31, 1996
Spring Recess (Clinical)	March 18, 1996 - March 24, 1996
Memorial Day	May 27, 1996
Summer Recess (Clinical)	June 24, 1996 - June 30, 1996

### SPECIAL EVENTS

First Year Orientation	August 4-18, 1995
FIRST DAY OF CLASS (M1-M2)	August 21, 1995
Primary Care Day	September 28, 1995
Honors Convocation (M4)	May 3, 1996 (Friday)
Commencement (M4)	May 4, 1996 (Saturday)
Comprehensive Make-Up Exam (M1)	August 8, 1995
CORE EXAMS (M1)	T.B.A.
CORE EXAMS (M2)	T.B.A.
USMLE Step 1	June 11-12, 1996/October 15-16, 1996
USMLE Step 2	March 5-6, 1996/August 27-28, 1996

## COURSE DESIGNATIONS

<b>First Year, First Semester</b>	<b>Department/ Course Number</b>	<b>Credit Hours</b>
Structure and Development of the Human Body Core	M-ID/570	9
Cellular Processes Core	M-ID/560	5
Problem-based Learning Core	M-ID/550	4
Integrated Clinical Experience I Core	M-ID/525	5
<b>First Year, Second Semester</b>		
Neurosciences Core	M-ID/580	5
Function of the Human Body Core	M-ID/590	9
Problem-based Learning Core	M-ID/550	4
Integrated Clinical Experience II Core	M-ID/526	5
<b>Second Year, First Semester</b>		
Introduction to Disease Processes Core	M-ID/630	9
Cardiology/Pulmonary/Endocrinology/Ear, Nose and Throat Core	M-ID/641	5
Problem-based Learning Core	M-ID/551	4
Integrated Clinical Experience III Core	M-ID/635	5
<b>Second Year, Second Semester</b>		
Neurology, Ophthalmology, Psychiatry Core	M-ID/631	5
Hematology/Oncology, Musculoskeletal, Infectious Disease and Dermatology Core	M-ID/640	5
Genitourinary/Gastroenterology System Core	M-ID/642	4
Problem-based Learning Core	M-ID/551	4
Integrated Clinical Experience V Core	M-ID/645	5
<b>Third Year Clerkships</b>		
Basic Req. Clk-Internal Medicine	IMED/705A	8
Basic Req. Clk-Internal Medicine	IMED/705B	4
Basic Req. Clk-Psychiatry	PSYC/705A	6
Basic Req. Clk-OB-GYN	OBGY/705A	6
Basic Req. Clk-Surgery	SURG/705A	6
Basic Req. Clk-Pediatrics	PEDS/705A	6
Family Practice Preceptorship	FAPR/705	8
<b>Fourth Year Clerkships</b>		
Entire Senior Year = 10 months (July - April)		
One month vacation allowed during senior year.		
Each senior elective is four (4) credit hours.		32
One month elective		
Basic Science Selective		4

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## EVALUATION OF STUDENT PERFORMANCE

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Each year the faculty of medicine, working through its leadership and faculty committees, must determine whether each student is fit to continue study towards the M.D. degree. A student may be dismissed from the college because of failure to meet academic or professional standards or because of misconduct.

### Conjoint Examinations

During the basic science sequence, students are examined during and at the end of each core. Examinations usually are given from 8 a.m. to 12 noon on Saturday. Students seeking to be excused from a scheduled examination must make prior arrangements with the course directors and Assistant Dean for Curriculum.

Performance on the core/conjoint examinations makes up at least 75% of the individual's evaluation except in those courses that have significant laboratory or small group experience.

### Comprehensive Examinations

In order to progress from the first to second year, the students must pass comprehensive examinations in each of the courses taken. A comprehensive examination is given at the end of the academic year.

### Grading System

The grading system for all classes (excluding students in the class of 1999 and beyond) is as follows:

- A — Superior performance
- B — Very Satisfactory performance
- C — Satisfactory performance
- D — Marginal performance
- F — Fail

Class of 1999 and beyond:

- H — Honors
- HP — High Pass
- P — Pass
- M — Marginal
- F — Fail

A course which, for good reason, has not been completed, but in which progress has been satisfactory, may be reported as "Incomplete." The department issuing the grade of "Incomplete" will indicate by departmental record, with a copy to the student, how it is to be removed. A student must remove an "Incomplete" by the end of the semester subsequent to which the "Incomplete" was received or the grade will be converted automatically to a failure. The department may petition the Scholastic Evaluation Committee to make individual exceptions to this rule.

The faculty have developed procedures, in accordance with the Bylaws of the Board of Regents, for hearing student appeals of academic evaluation. Students who believe that evaluation of course work or clerkship performance has been prejudiced or capricious should contact the Office of Academic Affairs to obtain

the procedural guidelines. The UNMC Student Handbook also summarizes the procedure. The Academic Affairs Office must receive the appeal within fifteen days after the student is notified of the grade by the Office of Academic Records.

### **Class Performance and Promotion**

Instructors in each of the courses are responsible for evaluation of the students academic performance. They may evaluate students using written or oral examinations, personal observations or other methods. Each student's overall performance is reviewed at the end of each semester by the Scholastic Evaluation Committee. The committee must recommend to the Dean whether each student should advance, do remedial course work or be dismissed.

A complete description of the policies used by the Scholastic Evaluation Committee is found in the document "Guidelines for Scholastic Evaluation Committee." These guidelines are given to each student at the beginning of the year and additional copies are available in the Office of Academic Affairs. As a brief summary it should be noted that the faculty expects students to attain a "C" (2.0) average for each of the first two academic years and to pass the first year comprehensive examinations in order to be promoted to the second year. Students must attain a grade point average of "C"+ (2.5) in each of the last two years. Starting with the class of 1999, all students receiving marginal or failing grades will be reviewed by the Scholastic Evaluation Committee.

### **Right of Appeal**

A student who is dismissed for academic reasons may request review by an Appeal Board, appointed by the Dean. The board includes at least four faculty members and one student. The Associate Dean for Academic Affairs is a non-voting member of the Appeal Board. The guidelines for Appeal Board procedure are included in the "Guidelines for the Scholastic Evaluation Committee. Care is taken to fully respect the rights of students when decisions are made about them.

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## **REQUIREMENTS FOR GRADUATION**

### **Class of 1999 and Beyond**

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The degree of Doctor of Medicine is granted only to candidates who:

1. Are at least 21 years of age.
2. Possess a good moral reputation.
3. Have pursued the study of medicine for at least two years at the University of Nebraska College of Medicine.
4. Have successfully passed all department examinations, have received grades of "H," "HP," "P" or "M," in all courses.
5. Have successfully passed all examinations and USMLE Step 1.
6. Have passed a *minimal competency* examination with a patient simulator during the junior internal medicine rotation.
7. OSCE — An Objective Structured Clinical Examination is required to be taken and passed during the senior year.
8. BLS and ACLS:

Certification in Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS) are requirements for graduation. A separate notification will be mailed to you prior to the start of the senior year.

9. Recorded all procedures performed during junior and senior years.
10. Have discharged all indebtedness to the University of Nebraska.

### **Applications for Degree**

Each student who expects to receive a diploma must file an application of candidacy for the diploma in the Academic Records Office, Room 3020, Conkling Hall. Announcements concerning deadlines for applications are posted throughout the campus and published in the campus newsletter.

### **Courses Leading to the Degree of Bachelor of Arts or Bachelor of Science and Doctor of Medicine**

Students who have transferred from the Colleges of Arts and Sciences at the University of Nebraska-Lincoln, or the University of Nebraska at Omaha, Chadron or Wayne State College may be granted the Bachelor of Arts degree or Bachelor of Science degree, providing all other requirements have been fulfilled, by using the subjects of the first year of the medical curriculum as a major. These degrees are conferred at the commencement on the appropriate campus.

Candidates for baccalaureate degrees at other institutions may arrange with their colleges to accept such degrees, or otherwise satisfy the requirements of those institutions.

### **Commencement Exercises**

Commencement attendance is required for those completing degree requirements in May, unless excused by the Dean of the appropriate college concerned. Those graduating at other times will receive their diplomas at the time the requirements are fulfilled and may participate in the next formal commencement.

### **Alumni Association**

There are more than 5,000 Alumni of the College of Medicine Alumni Association. Dues and other contributions help fund four full-tuition scholarships and summer research stipends for students, additions to the McGoogan Library of Medicine, the UNMC Fitness Center, student chapters affiliated with national organizations and College of Medicine departments. The Association is headquartered at the UNMC Alumni House, 510 South 38th Avenue. Both scientific and social activities are sponsored by the Association during annual class reunions held each year in October. The organization also sponsors the annual John S. Latta Lectureship which features a speaker of national prominence.

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## **GENERAL POLICIES**

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### **Student Rights and Responsibilities**

In accordance with Section 5.4 of the Bylaws of the Board of Regents, and in order to insure the protection of students' rights, the University of Nebraska Medical Center has established general procedures which must be followed if any disciplinary action is proposed against students. Disciplinary procedures may be instituted in instances of academic misconduct including but not limited

to unauthorized collaboration or use of external information during examinations, plagiarism, falsifying records or clinical reports or engaging in any conduct which is intended to confer unfair advantage with respect to academic matters. Non-academic misconduct subject to disciplinary procedures includes but is not limited to belligerence towards others, sexual harassment, possession of explosive devices, distribution or sale of controlled substances having potential for abuse, violation of patient confidentiality and conduct on or off the campus that reflects poorly on the University of Nebraska College of Medicine. Students will be informed in writing by the Deans Office of the specific charges, the supporting evidence, and the proposed disciplinary action. The Office of the Dean will also inform students of their right to appeal. The UNMC "Procedural Rules Relating to Discipline" may be found in the *UNMC Student Handbook*. The procedures insure that the rights of students have been carefully protected.

University of Nebraska Medical Center students on clerkships in the Hospital or in Clinics must conform to all the regulations which apply to medical staff and personnel of that hospital.

### **Student Records**

The academic record of a student is confidential. An official transcript of this record is sent only at the request or with the consent of the student or alumnus. The only information that will be released without the student's permission is name, dates of attendance, and degree(s) awarded. The student records kept in the Office of Academic Affairs are the official records of the College. They are available to the student and may be inspected upon request. The official records include the original application for admission with its supporting documents, unless the student has previously waived the right to see them; the narrative report describing the students performance in the medical curriculum; grade sheets; any entries about him or her in the minutes of the Scholastic Evaluation Committee; and the Deans letter of recommendation written in support of application for residency.

### **Family Rights and Privacy Act**

The University of Nebraska complies fully with the Family Educational Rights and Privacy Act of 1974 which was designed to protect the privacy of educational records. Students have the right to inspect and review their educational records in departmental offices and the Dean's Office, and to request the correction of inaccurate or misleading data through informal and formal hearings. The policy concerning student records may be found in the *UNMC Student Handbook* or in the Office of Student Services.

### **Leave of Absence**

In a demanding academic curriculum such as medicine, stresses, illness or uncertainty about goals can impair performance. In many instances, a leave of absence from studies can be a useful strategy to deal with these situations. Students who are considering a leave of absence are encouraged to discuss it with either the Assistant Dean for Students and Multicultural Affairs or the Associate Dean for Faculty and Academic Affairs. Ordinarily a leave of absence is granted for a year or a portion thereof, but it may be extended for more than a year if circumstances warrant.



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## THE STUDENT BODY AND STUDENT ORGANIZATIONS

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There are approximately 120 positions in the first year class, with nearly 500 students enrolled in all four classes. Women and men constitute relatively equal proportions of the classes. The student body has representation on virtually all the planning and governing bodies of the college. Student members are appointed to the standing committees for Admission, Curriculum, and Scholastic Evaluation. Students are included on most special or *ad hoc* committees that affect student life.



## **Medical Center Student Senate**

The Medical Center Student Senate governs the organization and regulation of student activities of the College of Medicine, College of Nursing, College of Pharmacy, School of Allied Health Professions, and UNMC students in the Graduate College. It serves as a liaison group between students in the various disciplines and works toward the common goals of students at UNMC. Students in each college or school elect representatives to serve on the Medical Center Student Senate. The President of the Student Senate serves as a representative on the University of Nebraska Board of Regents.

## **Organization of Student Representatives**

The OSR, established by action of the Assembly of the Association of American Medical Colleges (AAMC), provides a mechanism for making student opinion known to the AAMC. Students have two votes on the AAMC Executive Council and are recommended to standing committees. An appointed representative from the University of Nebraska Medical Center attends the AAMC Annual Meeting.

## **American Medical Student Association (AMSA)**

Over twenty thousand medical students in American medical schools are AMSA members. The AMSA chapter of the University of Nebraska College of Medicine is the eighth largest in the country, and is one of the most influential. AMSA represents student views concerning health care delivery and all current medical issues. In addition, AMSA provides many valuable services. For example, through the MECO project, freshman students can go on a four-week clinical rotation with a practicing physician in the summer after their first year. AMSA arranges for freshman students to spend time in the University Hospital Emergency Room and organizes noon conferences and films of student interest. At Nebraska, AMSA has developed community services such as interdisciplinary health teams and health screening.

## **Student National Medical Association**

The SNMA is a nonprofit corporate association of multicultural students in pursuit of a medical education. SNMA is dedicated to leadership development, social awareness, service to humanity, and excellence as a physician.

## **Student Association for Rural Health**

SARH was organized by students at the Medical Center to promote interest in health careers in rural areas of Nebraska. Outreach programs encourage youth in rural areas to consider medical careers. The Association supports students who have expressed interest in rural health care delivery.

## **Alpha Omega Alpha**

A.O.A. is a nonsecret, national medical college honorary society. Membership is based upon scholarship and moral qualifications. Elections conducted by the membership are limited to those whose scholastic record places them in the upper 25% of their class, but the total number of new members selected may not exceed one-sixth of the total number expected to graduate. The University of Nebraska chapter was organized November 2, 1914.

## Nebraska Medical Association — Medical Student Chapter

The Nebraska Medical Association — Medical Student Chapter (NMA-MS) is the official student branch of the Nebraska Medical Association designed to initiate student participation in organized medicine at an early stage in the future physician's medical career. Through membership in NMA-MS, students from all medical school classes can participate directly in NMA activities and work alongside practicing physicians throughout the state of Nebraska. In addition to student chapter activities, student representatives work on active NMA commissions and become personally acquainted with practitioners in all medical specialties.

## Student Section of Nebraska Academy of Family Physicians

The student section of the NAFFP was formed to provide fuller exposure to the specialty of family practice and the education needed for this specialty. Meetings provide information about residency programs in the midwest area and elsewhere. This organization also allows student participation at the state level and exposes students to organized medicine.

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## FEES AND EXPENSES

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Expenses of medical students include "educational expenses" and also "living" expenses.

In 1994-95, a Nebraska resident enrolled in medicine paid \$9,330 in tuition for nine months, \$588 in fees, and approximately \$1,500 for equipment and books for the first two years. Juniors and seniors in medicine attend twelve months and paid approximately \$800 for equipment and books.

"Living expenses" are an additional cost of being a student. They are estimated to be \$8,100 for Freshmen and Sophomores, \$10,800 for Juniors and \$9,900 for Seniors.

### Required Fees in 1995-96 Include:

Student Health Service fee (outpatient coverage) per semester .....	\$ 69.75
Student Health Service fee (inpatient coverage) per semester (unless waived) .....	205.00
Hepatitis B Vaccination, first year students .....	60.00
Hepatitis B Vaccination, third-fourth year students .....	20.00
T.B. Skin Testing (unless waived) .....	3.50
Service charge for late payment of tuition .....	20.00
Service charge for issuance of "bad" check .....	20.00
Add/drop course .....	5.00
Anatomy laboratory use fee .....	prices vary
Medical instruments, name tags, white jacket .....	prices vary (through the Bookstore)
Transcripts of permanent record (first copy) .....	3.00
Transcripts of permanent record (Additional copies on same order) .....	1.00
Replacement of photo identification card .....	5.00
Microscope rental (one-time fee at matriculation) .....	40.00
Locker Rental (1 year) .....	5.00

### Refundable Deposits

Photo identification card .....	1.00
Pre-enrollment deposit (applies to tuition) .....	100.00
Key .....	1.00

*Tuition, fees, and deposits are subject to change without notice. Additional laboratory fees may be established.*

### Tuition Refunds

A student who withdraws from the University during a term for which he/she is registered is entitled to claim a refund of tuition. The University's current policy for a refund of tuition is:

First week .....	100%
Second week .....	75%
Third week .....	50%
Fourth week .....	25%
Fifth week .....	None

### Microscopes

University-owned microscopes are available for a small fee (\$30.00) for use in the teaching laboratory during scheduled laboratory and study sessions. If students choose to provide their own microscope, it should meet these qualifications: 3 objectives including 16mm, 4mm and oil immersion objectives, substage condenser and substage lamp or other illumination, at least 10x oculars and a mechanical stage.

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## FINANCIAL ASSISTANCE

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Financial Aid programs are available to assist students who have unmet financial need. Students are required to submit a UNMC Application for Scholarships and Financial Aid annually. The deadline to apply for scholarships and financial aid is March 1. The Office of Financial Aid administers four basic types of aid: academic scholarships (based on GPA); scholarship/grants (based on GPA and need); loans (based on need and non-need); grants (based on need) and student employment\* (based on need and by request).

Financial Aid is awarded after scholarship awards have been made. Students are notified of their Financial Aid awards as early as possible before the start of the academic year.

Questions regarding financial aid may be directed to (402) 559-4199 or 1-800-626-8431. An open door policy is maintained in the Office of Financial Aid. Appointments are not required but are made upon request.

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## STUDENT HEALTH SERVICES

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The Student-Employee Health Service is designed to provide outpatient care for enrolled students and optionally for their dependents.

Routine health care — TB testing, immunizations, and diagnosis and treatment of episodic illness — is provided in attractive surroundings by physicians associated with the health service. Participant must have paid school tuition and the student health service fee.

If specialized care is needed, students will be referred to consultant specialists without additional charge.

Since costs of hospitalization and inpatient care are not covered for students or dependents, students are urged to obtain suitable health insurance. A policy is available through the Division of Student Services.

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## MULTICULTURAL AFFAIRS OFFICE

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The Office of Multicultural Affairs was created to assist the Medical Center in reaching its commitment to train health professionals for underserved communities in Nebraska as well as in other parts of the nation. Shortages of health professionals are particularly acute in minority communities. Therefore, Blacks, Chicanos and Native Americans are especially sought for careers in medicine, nursing, pharmacy, dentistry, and allied health.

UNMC Office of Multicultural Affairs plans and implements programs for recruitment, admission, and retention of ethnic minority students and economically disadvantaged students. Services include:

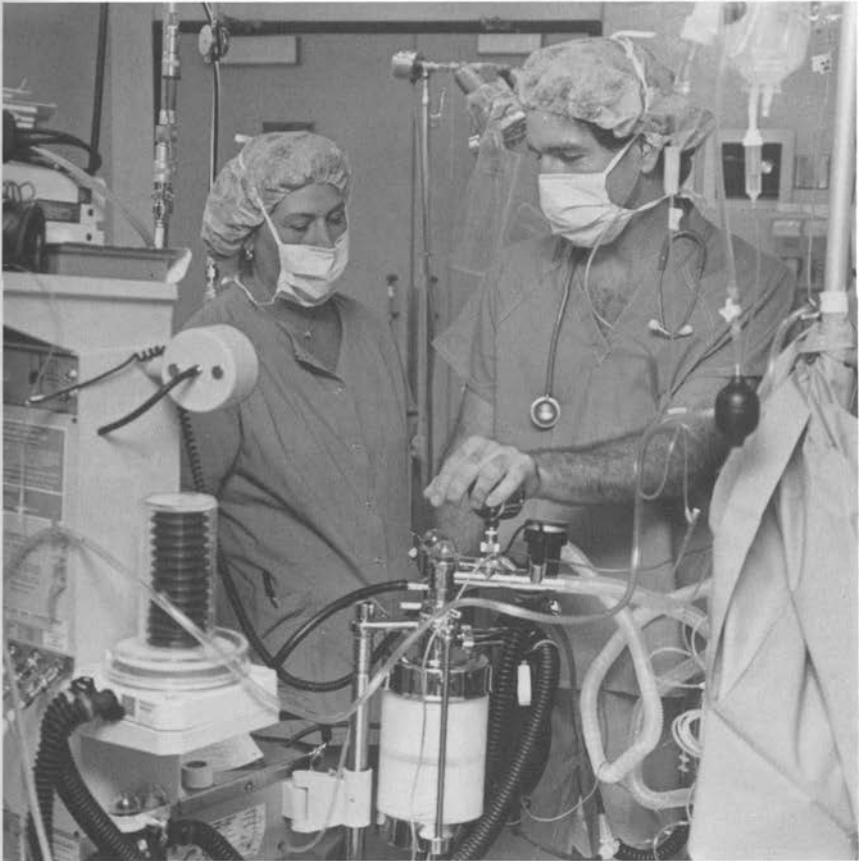
1. Personal and educational counseling on all UNMC colleges and programs including the College of Dentistry on the UNL Campus.
2. Assistance to accepted applicants in locating suitable housing and jobs for spouses.
3. An Academic Support Program for enrolled students.
4. Advisory support to the Student National Medical Association (SNMA).
5. Social and cultural functions for enrolled students and local preprofessional students.
6. Summer enrichment programs for college students interested in the health professions.
7. Motivational activities for local high school students.

Additionally, the Office of Multicultural Affairs serves as a resource for groups and departments sponsoring cultural awareness activities for all students and employees of the Medical Center and for the public.

For further information, please contact:

Multicultural Affairs  
UNMC  
600 S. 42nd Street  
Box 984275  
Omaha, NE 68198-4275  
(402) 559-4437





**ASSOCIATE PROFESSORS** Chapin, Cuka, Hill, Hurlbert, Newland (*Interim Chairperson*), Peters;  
**ASSISTANT PROFESSORS** Bucklin, Criscuolo, Fee, Hayworth, Lydiatt, Kanazi, Pohorecki, ; **CLINICAL  
ASSISTANT PROFESSORS:** Babcock, Bannerjee, Barjenbruch, Barmore, Baxter, Belatli, Boschult,  
Chilian, Drvol, Freeburg, Gordon, Hayes, Kolb, Landmark, Lodhia, Loneragan, Manion, McCarthy,  
O'Gara, Ohrt, Olson, Ramiz, Rose, Schlifer, Silverstein, Titel Thompson; **DIRECTOR OF RESEARCH**  
Becker.

The curriculum in Anesthesiology aims to introduce the student to the broad aspects of anesthesiology, management of the comatose patient, and the problems of the perioperative period.

We accomplish this by applied respiratory physiology, teaching respiratory and circulatory resuscitation, recognition and management of patients with acute and chronic respiratory problems. The student will have the opportunity to observe acute problems and make rapid decisions under supervision.

## ANESTHESIOLOGY

Courses of study involve familiarizing the student with anesthetic agents and adjuvant drugs, thus adding to the understanding of clinical pharmacology and making him/her aware of the problems involved in evaluating and preparing a patient for the physiologic and psychological changes associated with the perioperative period.

### Anesthesia - ANES

#### 720 Anesthesia Senior Clerkship, Hurlbert

Periods offered: 4 weeks

Student limit: 6

Semester hours: 4

Opportunity to gain an understanding of preoperative evaluation and preparation of patients for anesthesia and operation, clinical pharmacology of anesthetic agents and adjunctive drugs, respiratory physiology, principals of resuscitation, care of the unconscious patient, inhalation therapy, and an approach to the control of pain.

#### 760 Off-Campus Anesthesiology, Hurlbert

Periods offered: Each 4 weeks

Semester hours: 4

Arrangements in other medical centers can be made for extraordinary learning experiences not readily available within our facilities. The Department of Anesthesia faculty will be pleased to work with the student interested in an extramural clerkship when credit for this clerkship is desired.

#### 772 Anesthesiology Residency

A three year educational program with gradually increasing responsibility. The trainee develops skills and knowledge in the pharmacology of anesthetic agents, the administration of regional and general anesthesia, and the preoperative and postoperative care of patients. The resident also receives training in critical care medicine, pain and respiratory care. In keeping with the career goals of the trainee, special programs in subspecialty areas and research methods are available.

#### 799 Research in Anesthesia (Limit by arrangement)

Opportunity to select an area of interest from the aims of anesthesia clerkship for more intense study. Definition of problems and program of learning to be decided upon discussion with faculty.

### ANESTHESIA GENERAL EXERCISES

**Anesthesia Lecture** (Mon., Tues., Thurs., Fri. 6:45 a.m. - 7:15 a.m.)

**Anesthesia seminar series** (Tues. 4-5 p.m.)

**Morbidity Mortality Conference** (Wednesday 6:45 a.m. - 8:00 a.m.)

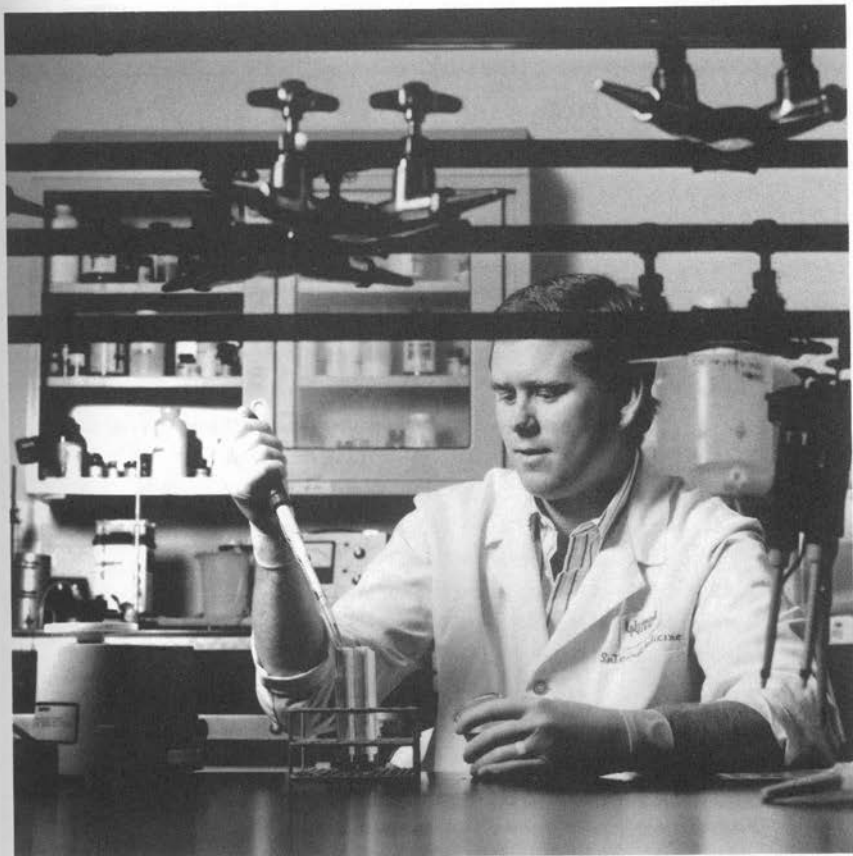
**Department Journal Club** (Monthly, 6:30 p.m. - 8:30 p.m.)



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## BIOCHEMISTRY AND MOLECULAR BIOLOGY

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**PROFESSORS** Birt Christman (Chairperson), Duckworth, Mirvish, Phares, Ramaley, Rogan, Ruddon, Salhany, Tuma; **ASSOCIATE PROFESSORS** Beckmann, Casey, Cavalieri, Chaney, Cox, Donohue, Heidrick, Hofert, Lin, Lockridge, MacDonald, Pelling, Shull, Vishwanatha; **ASSISTANT PROFESSORS** Becker, Gmeiner, Hollingsworth, Lewis Maher, Sanderson, Smithgall, Tapprich; **RESEARCH PROFESSOR** Chen; **RESEARCH ASSISTANT PROFESSOR** Sherman

The department offers 1) a course in basic biochemistry that is tailored to fit the needs of Pharmacy students (512) and 2) graduate-level courses (800-999 series) each semester to graduate students working for a M.S. or Ph.D. degree in Biochemistry and Molecular Biology or related disciplines.

# BIOCHEMISTRY AND MOLECULAR BIOLOGY

## Biochemistry/Molecular Biology - BIOC

### 512 Human Biochemistry (5 s h cr F)

This course includes the fundamental aspects of human biochemistry and molecular biology. Initially the course covers protein structure and enzyme function, followed by the chemistry and metabolism of carbohydrates, lipids and amino acids. Nucleic acid structure and gene expression are studied followed by endocrinology and nutrition. The course concludes with a study of the biochemistry of special tissues. Clinical applications of biochemistry and drug metabolism will be covered. Prerequisites: College chemistry including two semesters of general and two semesters of organic (or permission of instructor). One year of college biology.

### 596 Research Projects (credit and time by arrangement)

The student may choose from a variety of research projects dictated by individual faculty members. The student helps to plan the project, learns to perform the techniques and methods needed, collects the data and helps to summarize and interpret the results.

Series of advanced topics in Biochemistry (see below).

The subdivisions below constitute a comprehensive and advanced coverage of the major areas of biochemistry and molecular biology.

### 721 Biophysical Chemistry (3 s h cr) Gmeiner (921G)

### 725 Proteins, Membranes and Cell Regulation (4 s h cr) MacDonald and Chaney (925G)

### 726 Nucleic Acids (4 s h cr) Cox , Vishwanatha (926G)

### 740 Special Topics (1-3 s h graduate credit) Staff

### 820 Biochemistry I (3 s h cr F) Staff

### 821 Biochemistry II (3 s h cr S) Staff

### 850 Laboratory Techniques in Biochemistry & Molecular Biology (2 s h cr S) Ramaley

### 880 Principles & Methodologies in Cancer Research (3 s h cr) Shull

Basic Science Selectives (See INTERDEPARTMENTAL section for course information)

M-ID 746A Inborn Errors of Metabolism in Clinical Medicine

M-ID 746B Inborn Errors of Metabolism in Clinical Medicine

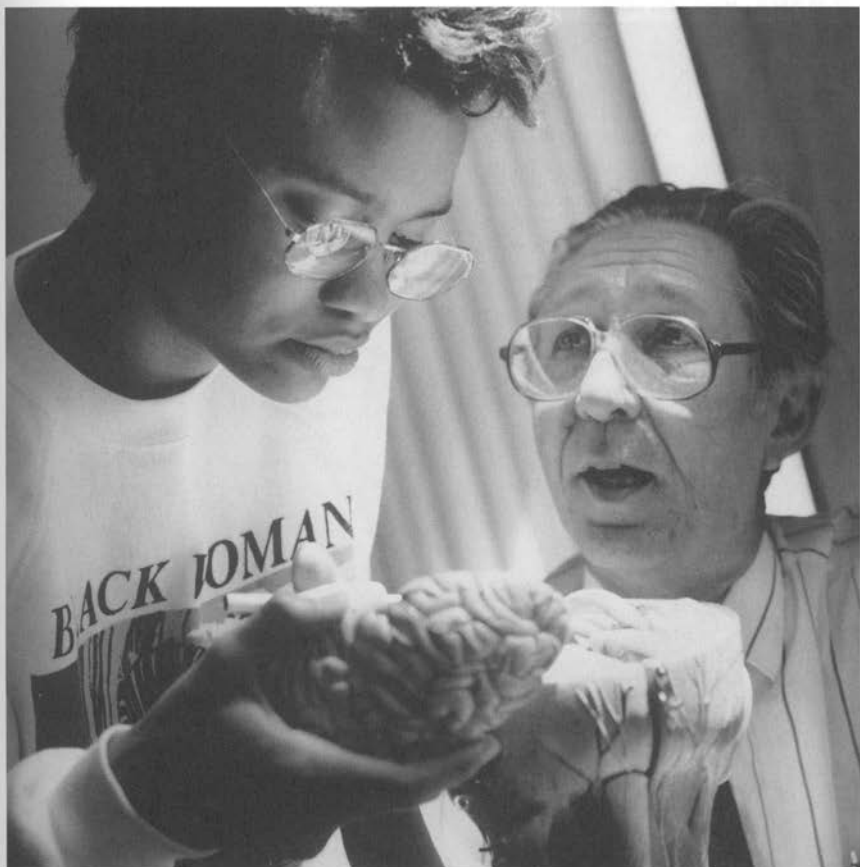
M-ID 746C Inborn Errors of Metabolism in Clinical Medicine

M-ID 746D Inborn Errors of Metabolism in Clinical Medicine

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## CELL BIOLOGY AND ANATOMY

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**PROFESSORS** Binhammer, Crouse, Gardner, Rodriguez-Sierra, Rosenquist (Chairperson), Sharp, Turpen; **ASSOCIATE PROFESSORS** Gadson, Joshi, Norgren, Stinson, Todd III; **ASSISTANT PROFESSORS** Ahmad, Leuschen; **EMERITUS** E. A. Holyoke, N.F. Metcalf; W. K. Metcalf A. M. Earle, In this department, instruction is given in all phases of human morphology, including gross, microscopic, embryological and neurological anatomy.

Every effort is made to correlate the teaching with related basic and clinical fields in order to establish the relevance of morphological studies to problems of clinical medicine. The basic courses are established as core courses presenting fundamentals of universal importance. Opportunity is provided for additional study through a selection of elective courses.

## CELL BIOLOGY AND ANATOMY

### Cell Biology and Anatomy - CBA

Basic Science Selectives (See INTERDEPARTMENTAL section for course information)

M-ID 732A Thorax and Abdomen

M-ID 732C Thorax and Abdomen

M-ID 733C Lower Limb

M-ID 734A Head and Neck

M-ID 735A Thorax and Neck

M-ID 736A Thorax

M-ID 736D Thorax

M-ID 737A Pelvis, Perineum and Lower Limb

M-ID 738A Abdomen, Pelvis and Perineum

M-ID 739B Neuroanatomy and Molecular Basis of Neurodegenerative Diseases

M-ID 755D Abdomen

M-ID 756B Head and Neck

M-ID 757B Upper and Lower Extremities

M-ID 758D Eye and Orbit

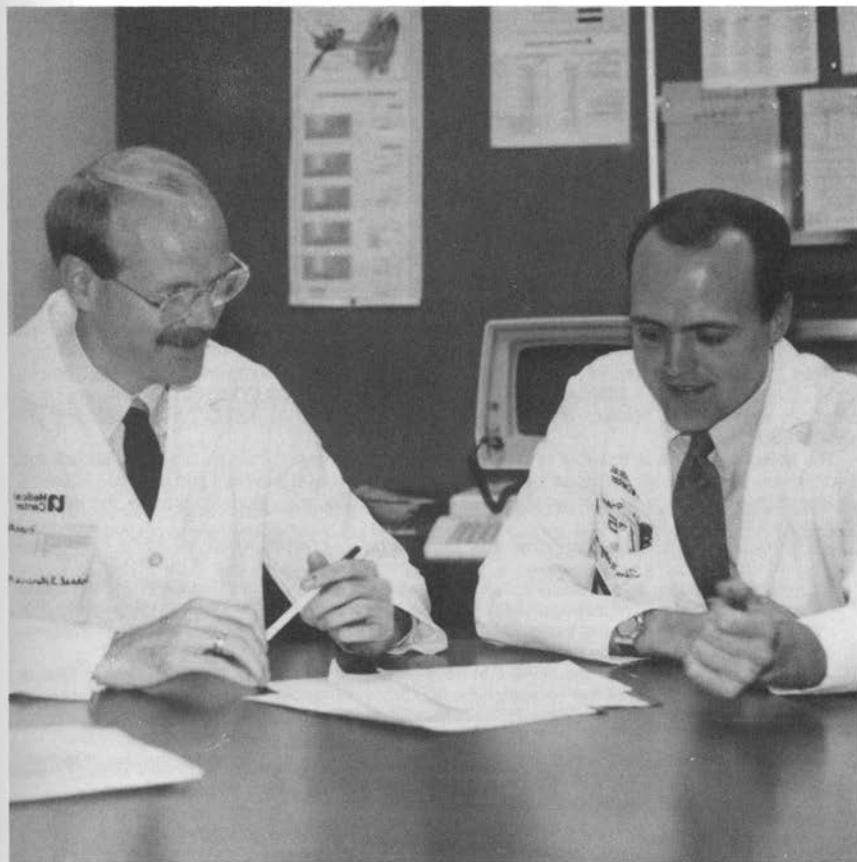
M-ID 759D Dissection of the Brain

M-ID 760B Topics in Cell Biology

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## FAMILY MEDICINE

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**PROFESSOR** Sitorius (Chairperson) **ASSOCIATE PROFESSORS** Bass, Crabtree, Hill, McIlvain, Paulman, Stageman, Steele, Susman, Wheatley; **ASSISTANT PROFESSORS** Abdouch, Babbe, Bowman, Fitzgibbons, Fruehling, Goeschel, Halm, Jones, Malloy, Mathews, McVea, Medder, Nasir, Prest, Smith; **INSTRUCTOR**; Manners **ADJUNCT ASSOCIATE PROFESSORS** Filipi, Retelsdorf, **CLINICAL ASSISTANT PROFESSORS** Harrison, LaCroix, Ogden; **CLINICAL INSTRUCTORS** Backer, Cornwall; **ADJUNCT ASSISTANT PROFESSORS** Akerson, Arasmith, Ashby, Bagby, Bechtel, Becker, Beran, Byrd, Cavacece, Deaver, Gentry, Gfeller, Grace, Harnisch, Hougas, Jensen, Koefoot, Kusek, Landers, Larson, Long, Lyons, Mantz, Martin, Mazour, McCammond, McCoy, McPherson, Olson, Oswald, Plummer, Quick, Reynolds, Rude, Rudolph, Scott, Skye, Springer, Stripe, Weigand, Wilkins, Wilkinson, Wingert, Wirth, Woodruff, Worthman, Zimmer; **CLINICAL ASSOCIATE PROFESSORS** Alderman, Bare, Bartruff, Benthack, Biga, Brainard, Carlson, Crew, Davis, Denker,

## FAMILY MEDICINE

Doering, Ens, Fellows, Finkner, Forsman, Grant, Hapke, Holsclaw, Johnson, Klutman, Lacey, Larson, Lindau, Magruder, Mathews, McMinn, Miller, Minier, Monaghan, Mountford, Nagengast, Nelson, Nilson, Peterson, Plessman, Potts, Prescher, Quiring, Samuelson, Sheppard, D. Steier, J. Steier, Thompson, Thomson, Tran, Travnick, Underriner, Vandewege, Walston, Williams, Wilson, Wiseman; **ADJUNCT ASSISTANT PROFESSORS:** Astley, Bachenberg, Campbell, Craig, Fitzgibbons, Hermesen, Huff, Irwin, Johnson, Klub, Lawrence, Lemke P., McCarville, Metz, Meyer, Michels, Parker, Pierce, Rapp, Rigilano, Sawyer, Shumard, Vahle, Wochner, Woods, Zadina; **ADJUNCT INSTRUCTORS** Al-Turk, Albin, M. Anderson, R. Anderson, Bailey, Barker, Barnwell, J. Bell, R. Bell, Beyer, Bigler, Blatny, Blecha, Bonebrake, Books, Borg, Bottom, Boyer, Brouillette, Butler, Campbell, Carlson, Carstens, Catlett, Clark, Conell, Connolly, Cornelius, Cronican, Curry, Cutright, Czaplewski, Davy, De La Guardia, Demuth, Dietrich, Dorwart, Dotson, Dozon, Eaton, Ehresman, Embury, Esser, Fairbairn, Fisher, Fitch, Ford, Forney, Fosnaugh, Francis, Friesen, Gacke, Gardner, D. Gentry, H. Gentry, Goodrich, Green, Grenier, Griffin, Grove, Grubbe, Hanlon, Hansen, Harkins, Hatch, Heiser, Helmick, Hinrichs, Hodge, Hoelting, Hohensee, Hollis, Holyoke, Hunt, Huscher, Husen, Hutchins, Istas, Jackson, Jacobs, Jacobsen, Janulewicz, Janzen, Jay, Jobman, . D. Johnson, K.L. Johnson, K.D. Johnson, K. E. Johnson, M. Johnson, T. Johnson, Jones, Keenan, Kim, Kirchner, Knerl, Koenig, Kohl, Kolste, Laflan, Laird, Langvardt, Lau, Lesh, Leuinghoener, Liggett, Linder, Lockee, Loschen, Luckey, Maasdam, Madison, Magruder, B. Martin, T. Martin, Massie, D. Mazour, J. Mazour, McKeeman, McKnight, McLellan, McMaster, Mellor, Mergens, J. Miller, W. Miller, Moore, Morgan, Morse, Moseman, Mostek, Muffy, Nelson, Nordlund, Omel, Orton, Painter, Penner, Peters, Plate, Pope, Ptacek, Pumphrey, Qaqish, Rademacher, Rasmussen, Raymond, Reed, Reiner, Remington, Richling, Rickard, Robey, Robinson, Rodgers, Rosenquist, Roth, Ruhe, Rutz, Ryan, H. Salyards, P. Salyards, Schneider, Schulz, Scott, Senseney, Serbousek, Settje, Shaffer, J. Shelton, W. Shelton, Shopp, Shuey, Sievers, Sippel, Smith, Snyder, Spencer, Stockwell, Sucha, Sullivan, Surber, Swanson, Taylor, Thaut, Thoendel, Thomas, Tibbels, Tuma, Van Bang, Veskrna, Vlach, Voigtlander, Wampler, Ward, Weckmuller, Weeks, Weirman, Weldon, Wergin, I. Weston, W. Weston, Wilcox, Wilhelm, Wilsey, Windle, Wirges, Woods, Wright, Zink, Zlomke; **ADJUNCT ASSISTANT INSTRUCTOR** Prange; **SENIOR CONSULTANT** Harvey, Long, Morgan, Shiffermiller, Walker; **PROFESSOR EMERITUS** Fathie; **ASSOCIATE PROFESSOR EMERITUS** Cassell

The object of this department is to prepare students to carry out their functions as leaders and coordinators of health care teams as they provide access to the health system and assume continuing responsibility for management of patients over a long period of time. More specifically, the program is designed to do the following:

1. Provide a stimulating experience in a model of family practice which will infuse the student with a philosophy of family practice and an understanding of the role of the family physician.
2. Help the student acquire excellent skills in diagnosis, treatment, and management of patients and technical procedures appropriate for family practice.
3. Help the student acquire the knowledge and appropriate depth in various fields of medicine encompassed by family practice.
4. Provide opportunity for the student to develop mature clinical judgment and appreciation of the limitation of his or her competence.
5. Provide understanding of research and methodology in problems relating to the delivery of health services.
6. Encourage students to develop life-long habits of learning and an understanding of the role of continuing education in maintaining professional excellence.
7. Encourage students to examine the viability of rural family practice.

### Family Medicine - FAPR

The broad objectives of the departmental teaching program are listed in the College of Medicine Bulletin. Electives offered during the senior year are directed at offering varying experiences in Family Medicine for those interested in the career field or others who are choosing more restricted fields and wish to broaden their experiences.

A written case report must be submitted to the Family Medicine Department as a requirement of all Family Medicine coordinated clinical rotations.

#### 705 Community Preceptorship (Required)

Periods offered: Each 8 weeks  
Student limit: None  
Semester hours: 8  
Prerequisite: Junior Status

This is a clerkship with a solo, dual, or group practice in which the student is afforded the opportunity of observing a local community and its inter-relationships with the practice of medicine in that community.

## 720 Family Health Center - University Hospital Clerkship, Smith and Staff

Periods offered: Each 4 weeks except for month of July

Student limit: 1

Semester hours: 4

Where to report: Family Health Center

A clinical experience in the Family Health center of the University of Nebraska Medical Center. Includes experience in treating adults and children with acute and chronic illnesses. Students are also welcome to participate in Family Medicine Seminars.

## 722 Family Health Center - Summit Plaza Medical Associates Clerkship, Abdouch & Staff

Periods offered: Each 4 weeks except for month of July

Student limit: 1

Semester hours: 4

Where to report: Summit Plaza (36th and Hwy 370)

A clinical experience at the University satellite clinic located at 36th Street & Hwy 370. Covers all clinical areas. Full-time and volunteer faculty.

## 723 Family Health Center - Harvey Oaks Medical Associates Clerkship, Goeschel and Staff

Periods offered: Every month except July

Student limit: 1

Semester hours: 4

Where to report: Harvey Oaks Medical Associates

An exposure to all aspects of Family Medicine in a private office setting based at the Harvey Oaks Medical Associates. This rotation covers all aspects of Family Medicine in an outpatient setting in addition to exposure to preventive medicine, surgical procedures done in the Family Medicine Office and alternative health care systems located at 14606 West Center Road in the Harvey Oaks Shopping Plaza.

## 727 Family Medicine Inpatient Service (UNMC) - Chief Resident and Staff

Periods offered: Every month except July

Student limit: 1

Semester hours: 4

Where to report: Chief Resident - Family Medicine Department

Students are given externship responsibilities commensurate with experience under the direct supervision of the Family Medicine resident, chief resident and inpatient attending physician. The inpatient service admits patients from the three Family Medicine clinics, from the ER or Family Medicine referral patients from outstate Nebraska.

## 728 Family Medicine Clerkship - Nebraska Methodist Hospital, Filipi & Staff

Periods offered: Check with Family Medicine Dept.

Student limit: 1

Semester hours: 4

Where to report: Contact Dr. Filipi, 390-1401

A clinical experience, both inpatient and outpatient, on the Family Medicine service. Average monthly census of patients per volunteer faculty is 25.

## 730 Family Medicine Clerkship - Lincoln General Hospital

Periods offered: Every month except July

Student limit: 1

Semester hours: 4

Where to report: Medical Staff Office

Contact Person: Christie Butz, Ext. 6822

A clinical experience, both inpatient and outpatient, in Family Medicine. This rotation is coordinated through the Department of Family Medicine with the Lincoln Residency Program.

## 760 Private Practice Office Clerkship - Omaha

Periods offered: Every month

Student limit: None

Semester hours: 4

This clerkship offers a chance to participate in and observe private practice in family physicians' offices in Omaha. A list of participating faculty is available in the Family Medicine Office. An off-campus elective application must be submitted for this experience. Please note that you will need to contact Christie Butz, extension 6822 and let her know where you plan to complete this rotation before you begin this rotation.



## FAMILY MEDICINE

### 761 Family Medicine Off-Campus Elective

Periods offered: Every month  
Student limit: None  
Semester hours: 4

This clerkship offers a chance to participate in and observe an off-campus elective in an out-of-state locale of the student's choice. An off-campus elective application must be submitted for this experience. Please note: you will need to contact Christie Butz in Family Medicine, extension 6822, and let her know where you plan to complete this rotation before you begin the rotation.

### 762 Migratory Health

Periods offered: April, May, June, July  
Student limit: 1  
Semester hours: 4

The student will participate in the Nebraska Migrant Health Project in Gering, Nebraska as a member of the health team in the Family Medicine Clinics and other activities.

### 763 Off-Campus Elective in Community Health, M. Fathie

Periods offered: Each 4 weeks  
Student limit: 3 (by arrangement)  
Semester hours: 1-6 (by arrangement)

This elective is to enable students to obtain credit for educational experiences related to community health which are off-campus. Students traveling in foreign countries who are interested in studying other health work, occupational medicine, or medical computing are those for whom it is intended. There is also the capability to secure experience in health maintenance through injury and environment control, health fitness testing, and athletic medicine.

### 766 Community Health Care (MECO)

Periods offered: Each 4 or 8 weeks  
Student limit: By arrangement  
Semester hours: None

Medical Education Community Orientation Project is sponsored and arranged by the American Medical Student Association for pre-clinical medical students.

### 690 Non-Thesis Research, Bass

Periods offered: Each Semester  
Student limit: 3 per semester by arrangement  
Semester hours: 1-6

The purpose of this course is to provide a clerkship-like experience for graduate students in the basic medical sciences, and a research experience in an area of community health for interested medical students. Problems amenable to this type of research are usually not possible within a single four week block. A wide variety of problems including groups of patients is available for students who do not already have a problem they wish to work on.

### 772 Family Medicine Core Residency

This full-time three-year program of clinical assignments, plus seminars and conferences, has been designed to prepare the physician to meet the demand for a single, competent primary physician for the entire family. The program is flexible enough to allow the physician to elect assignments based on his interest and needs. Specific assignments include one-half day per week in each of the three Family Health Centers (University Hospital, Dodge Street and South Omaha) and a four-month experience in one of the outstate Nebraska community hospitals affiliated with the Medical Center.

### 774 Family Medicine Fellowship

During this year-long advanced program, the physician will continue his/her residency training on a half-time basis. He/She will also assume half-time responsibilities in the department's teaching activities with faculty status of instructor. Open to physicians who have completed a three-year residency in an accredited program or are diplomates of the American Board.

**799 Research Project in Family Medicine**

Periods offered: Each 4 weeks

Student limit: By arrangement: Only 1 student at a time; limited to 3/year.

Semester hours: 4

Students may select projects in which they are particularly interested and, with the approval of the faculty, may pursue these projects intensively for four weeks. Such projects might be concerned with the delivery of health care or with the value of screening procedures. Faculty advice will be given and the research project will be structured. Contact Dr. Ben Crabtree ext. 8872.

**Basic Science Selectives (See INTERDEPARTMENTAL section for course information)**

**M-ID 743A/B Nicotine Addiction and Smoking Cessation  
(Biochemical and Physiologic Aspects)**

**M-ID 744A/B Depression**

**M-ID 745A/B Sleep and Sleep Disorders**

**M-ID 752A Chemical Dependency and Addiction Medicine**

**M-ID 752B Chemical Dependency and Addiction Medicine**

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## INTERDEPARTMENTAL

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**525/526 Integrated Clinical Experience I & II Cores** (5 s h cr. 1st semester) / (5 s h cr. 2nd semester)

**635/645 Integrated Clinical Experience III & IV Cores** (5 s h cr. 1st semester)/(5 s h cr. 2nd semester) The Integrated Clinical Experience program is intended to help students recognize the clinical relevance of basic sciences and to gain an appreciation of the social, psychological, and ethical dimensions of the practice of medicine. Topics covered in this two year curriculum include: The history and physical examination, interviewing skills, behavioral sciences, ethics, preventive medicine, health care policy, and health care services research. In addition, students are given opportunities to participate in the practices of community and university based primary care physicians through the Longitudinal Clinic Experience and summer rural preceptorship between the first and second years of medical school.

**560 Cellular Processes Core** (6 cr. 1st semester)

This six-week-long Core presents an integrated, comprehensive course which covers the basic information in the areas of cellular processes necessary to form a foundation for subsequent application to normal and disease-related processes. A coordinated presentation of appropriate materials from the areas of cell biology and physiology, biochemistry, molecular biology, histology, and genetics will be included in this Core. The format of the course will include lectures and laboratories. Evaluation will be in the form of traditional objective, laboratory, and essay examinations. The Core will be presented in the last six weeks of the fall semester.

**570 Structure and Development of the Human Body Core** (10 cr 1st semester)

This ten-week-long Core features a study of the structure of the human body in sequence beginning with the back and then the upper limb, head, neck, thorax, pelvis, perineum, and lower limb. Structural features are studied by gross dissection, demonstration, cross section, radiographs and in scans and are correlated to the appropriate living anatomy. Systemic embryology lectures will provide an understanding of the development of definitive anatomical structures. Emphasis is placed on the structure: function correlation and the relationship of anatomic configuration to diagnosis of clinical problems. The format of the course will include lectures, laboratories, demonstrations, small group discussions and many varieties of audiovisual aids. Evaluation will be in the form of traditional objective, laboratory, and essay examinations. The Core will be presented in the first ten weeks of the fall semester.

**580 Neurosciences Core** (6 cr 2nd semester)

This six-week-long Core presents an integrated, comprehensive study of neuroscience, including behavioral science, clinical neurology, neuroanatomy and neurophysiology. Topics presented in this course are selected to give students a basic understanding of the functioning of the nervous system in both health and disease. The format will include lectures, laboratories, problem based learning sessions and a selected number of clinical correlates. In addition, small groups of students will research, using computer assisted search methods and library materials, one topic in more depth and will present their findings as a poster. Grades will be established by objective, essay and laboratory examinations as well as by faculty evaluation of the poster presentations. The Core will be presented in the first six weeks of the spring semester.

**590 Function of the Human Body Core** (10 cr 2nd semester)

This ten-week-long Core presents an integrated, comprehensive course which covers the physiology, biochemistry, nutrition and histology related to various functions of the human body including: circulatory; renal; respiratory; endocrine/reproductive and digestive, absorptive and metabolic systems. The format of the course will include lectures, histology laboratories and cardiovascular laboratory. Evaluation will be in the form of traditional objective, laboratory, and essay examinations. The Core will be presented in the last ten weeks of the spring semester.

**630 Introduction to Diseases Processes Core** (10 cr 2nd semester)

This ten-week-long Core consists of introductory material in the areas of immunology, microbiology (bacteriology, virology, mycology, and parasitology), pathology (Clinical, anatomic, pediatric, and forensic), clinical medicine (geriatrics, pediatrics, basic life support, and nutrition), and pharmacology. The format includes lectures, small groups, and laboratories. Evaluations are in the form of multiple choice, short answer, examinations.

**631 Neurology, Ophthalmology, Psychiatry Core** (5 cr 2nd semester)

This five-week-long core presents in an integrated and sequential fashion select areas of neurology such as epilepsy and movement disorders; ophthalmology such as glaucoma and cataracts; and psychiatry such as anxiety, depression, and schizophrenia. In addition, the subjects of neuropsychopharmacology will be discussed after presentation of clinical entities. Each of the main three units will be heralded by presentation of biochemical and molecular mechanisms in signal transduction involving behavior, neurons, and vision. Each of the three units will culminate in case presentations dealing with proper usage of multiple medications in neurology, ophthalmology, and psychiatry. The assessment of successful acquisition of learning objectives will be based on traditional multiple choice questions and essay examinations.

**640 Hematology/Oncology Musculoskeletal and Infectious Disease Core** (6 cr 2nd semester)

This six-week-long core is intended to provide an introduction to diseases effecting several body systems and includes a multidisciplinary overview of musculoskeletal, infectious disease as well as lymphoid and hematopoietic malignancies, anemia, transfusion medicine and coagulation abnormalities. Each area will be covered by a combination of lecture, small group discussion, and problem-based learning. Students will be given several case scenarios to help direct their studying. Evaluation will be in the form of traditional objective, laboratory, and fill-in-the-blank examinations as well as faculty evaluation of student performance in self-directed learning sessions.

## INTERDEPARTMENTAL

### 641 Cardiology/Pulmonary/Endocrinology/Ear, Nose and Throat Core (5 or 1st semester)

This six-week-long core presents an integrated comprehensive study of cardiac, pulmonary, endocrine and ear, nose and throat diseases including clinical diagnosis and treatment, pathophysiology, pharmacology, and pathology correlates. Topics are selected to give students a basic understanding of the functioning of each organ system in health and disease. The format will include lectures, laboratories and small discussion groups. Evaluation will be in the form of traditional objective, laboratory and essay examinations.

### 642 Genitourinary/Gastroenterology System Core (4-5 or 2nd semester)

This five-week-long core includes instruction on the kidney and urinary tract, female genital system and breast, gastrointestinal, and hepatobiliary diseases including liver, biliary tract and pancreas. The series on the female genital tract consists of the pathologic basis intertwined with clinical approaches to the patient. The microbiology of venereal diseases and urinary tract infections also presented. Pharmacologic considerations include sex steroids. Menstrual abnormalities and normal reproduction and infertility are addressed. Breast disease is reviewed by small group discussion, lecture, and computer aided interaction and simulation laboratories.

The gastroenterology section includes instruction on the etiology, epidemiology, pathophysiology, pathology, microbiology, clinical presentation, diagnosis, and treatment of alimentary tract, hepatobiliary, and pancreatic diseases. Learning will take place in lectures, small group case discussions, microbiology and pathology laboratories, and PBL sessions. Some computer aided instruction is included.

## BASIC SCIENCE SELECTIVE

THE INTENTION OF THE BASIC SCIENCE SELECTIVE IS TO ALLOW STUDENTS TO GO BACK TO AN AREA OF THE BASIC SCIENCES AND RE-EXAMINE IT FROM BOTH A CLINICAL AND BASIC SCIENCE VANTAGE POINT.

Objectives to be met by all offered selections.

1. Provide students the opportunity to be exposed to the scientific literature associated with a given field of study.
2. Under the direction of a basic scientist and a clinician, be involved in the critical evaluation of current literature.
3. Examine an area of interest in more depth than was covered during the basic science years.
4. Under the direction of a basic scientist and a clinician, gain an overview of that area as it relates to the clinical practice of medicine.
5. Provide a written summary, indicating recent progress in the area and suggesting how research in the area can be expected to impact the practice of medicine in the next ten years.

Duration: Four weeks total in any variety of 2 week blocks (must be taken 4 weeks at a time).

Instruction: Taught under the direction of the basic science departments with input and assistance from one or more clinical departments.

Coordinating

Department: The Department of Physiology and Biophysics will be the Basic Science department responsible for the coordination of this Selective. This will be under the direction of Dr. Kurtis G. Cornish.

Format: Option 1. Total Didactic  
Option 2. Total Research  
Option 3. Journal club discussions  
Option 4. Assist in teaching lectures and/or labs in basic science  
Option 5. Research Paper/Patient evaluation  
Option 6. Write a PBL Case

**BIOCHEMISTRY AND MOLECULAR BIOLOGY:****746A Inborn Errors of Metabolism in Clinical Medicine**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: July, October through December  
 Student Limit: 2  
 Primary Faculty: Dr. Robert Ramaley and Dr. Hobart Wiltse

**746C Inborn Errors of Metabolism in Clinical Medicine**

Credit Hours: 2  
 Number of Weeks: 2  
 Available Times: July, October through December  
 Student Limit: 1  
 Primary Faculty: Dr. Robert Ramaley and Dr. Hobart Wiltse

**746B Inborn Errors of Metabolism in Clinical Medicine**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: January through April  
 Student Limit: 2  
 Primary Faculty: Dr. Robert Ramaley and Dr. Hobart Wiltse

**746D Inborn Errors of Metabolism in Clinical Medicine**

Credit Hours: 2  
 Number of Weeks: 2  
 Available Times: January through April  
 Student Limit: 1  
 Primary Faculty: Dr. Robert Ramaley and Dr. Hobart Wiltse

This selective will offer the student an opportunity to gain familiarity with those inborn metabolic diseases most likely to be encountered during residency and practice, along with methods for confirmatory diagnosis. The student will be able to attend metabolic management clinics as well as regularly scheduled conferences and seminars in metabolism, genetics and biochemistry. There will be suggested readings in current journals such as *J. Clin. Invest.* and *J. Inher. Metab. Dis.* Some students may find an opportunity to participate in laboratory research which could be continued beyond the selective.

Because any listing of clinically important inborn errors is quite lengthy, it is anticipated that each student's experience can be individualized according to career directions. A prospective internist or family practitioner might emphasize the hyperlipidemias, the hyperuricemias, and the porphyrias. Surgeons and anesthesiologists might emphasize diseases with abdominal symptoms, surgical complications, and conditions causing intolerance to brief fasting or conditions leading to organ transplant. Similar examples could be cited for the prospective orthopedist, pathologist, radiologist, ophthalmologist, obstetrician, dermatologist, or pediatrician.

**CELL BIOLOGY AND ANATOMY:**

Each of the following courses will include regional dissection and service as a teaching assistant for first year medical students in the gross anatomy (Core 1) laboratory, mornings. Dissection will be under the direction of a faculty member and will be graded. Each student must attend at least 80% of all Core 1 laboratories and dissecting sections to receive credit. A short library research paper will be required. This paper will deal with contemporary clinical or basic sciences literature regarding the region under study (e.g., imaging methods, surgical approaches, developmental anomalies).

Grades will be determined as follows:

1. 1/3 = evaluation of laboratory teaching, especially knowledge of the region; derived from both faculty members and students in Core 1
2. 1/3 = quality of the dissection
3. 1/3 = library research paper

**732A Thorax and Abdomen****734A Head and Neck****737A Pelvis, Perineum and Lower Limb**

Each of the following courses will include regional dissection and service as a teaching assistant for first year physical therapy students in the gross anatomy laboratory, afternoons. Dissection will be under the direction of a faculty member and will be graded. Each student must attend at least 80% of all of the physical therapy student laboratories and dissecting sessions to receive credit. A short library research paper will be required. This paper will deal with contemporary clinical or basic sciences literature regarding the region under study (e.g., imaging methods, surgical approaches, developmental anomalies).

## INTERDEPARTMENTAL

Grades will be determined as follows:

1. 1/3 = evaluation of laboratory teaching, especially knowledge of the region; derived from both faculty members and students in Core 1
2. 1/3 = quality of the dissection
3. 1/3 = library research paper

### **735A Thorax and Neck**

### **737A Abdomen**

### **737A Abdomen, Pelvis and Perineum**

Each of the following courses will include regional dissection and the preparation of a library research paper. This paper may deal with contemporary clinical or basic science literature regarding the region under study (e.g., imaging methods, surgical approaches, developmental anomalies). Dissection will be under the direction of a faculty member and will be graded. Each student must attend at least 80% of all of the physical therapy student laboratories and dissecting sessions to receive credit.

Grades will be determined as follows:

1. 1/3 = knowledge of the region as measured by performance on a discussion/essay examination
2. 1/3 = quality of the dissection
3. 1/3 = library research paper

### **732C Thorax and Abdomen**

### **733C Lower Limb**

### **736D Thorax**

### **755D Abdomen**

### **756B Head and Neck**

### **757B Upper and Lower Extremities**

### **758D Eye and Orbit**

### **759D Dissection of the Brain**

The following course will introduce the laparoscope, using cadaveric material. Use of the instrument will be under the direction of a faculty member, and laboratory performance will be graded. Each student must attend at least 80% of all of the sessions to receive credit. A library research paper on the use of the laparoscope will be required.

Grades will be determined as follows:

1. 1/3 = knowledge of laparoscopy as measured by performance on a discussion/essay examination
2. 1/3 = quality of the laboratory performance
3. 1/3 = library research paper

### **753B Laparoscopic Anatomy**

The following course will include directed readings and experiences in a research laboratory. A written examination will be given at the end of the course.

### **739B Neuroanatomic and Molecular Basis of Neurodegenerative Diseases**

The following course will include directed readings and experiences in research laboratories in both a clinical and a basic science department. A library research paper will be required.

### **760 Introduction to Vascular Biology**

### **732A Thorax and Abdomen**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: September and October  
Student Limit: 2-4  
Primary Faculty: Cell Biology & Anatomy Faculty  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 4

### **732C Thorax and Abdomen**

Credit Hours: 2  
Number of Weeks: 2  
Available Times: July  
Student Limit: 2-4  
Primary Faculty: Cell Biology & Anatomy Faculty  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 1



- 733C Lower Limb**  
 Credit Hours: 2  
 Number of Weeks: 2  
 Available Times: July  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 1
- 734A Head and Neck**  
 Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: September  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 4
- 735A Thorax and Neck**  
 Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: September  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 4
- 736A Thorax**  
 Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: October  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 4
- 736D Thorax**  
 Credit Hours: 2  
 Number of Weeks: 2  
 Available Times: January  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 4
- 737A Pelvis, Perineum & Lower Limb**  
 Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: October  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 4
- 738A Abdomen, Pelvis & Perineum**  
 Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: November  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 4

## INTERDEPARTMENTAL

### **739B Neuroanatomic & Molecular Basis of Neurodegenerative Diseases**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: January  
Student Limit: 4-10  
Primary Faculty: Drs. Ahmad and Norgren  
Faculty Contact: Dr. Norgren (Ext. 8891)  
Option Number: 3

### **753B Laparoscopic Anatomy**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: January and February  
Student Limit: 2  
Primary Faculty: Dr. Saxena  
Faculty Contact: Dr. Saxena (Ext. 7292)  
Option Number: 1

### **754A Introduction to Vascular Biology**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: January through April  
Student Limit: 2-4  
Primary Faculty: Drs. Rosenquist & Baxter  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 1

### **755D Abdomen**

Credit Hours: 2  
Number of Weeks: 2  
Available Times: January  
Student Limit: 2-4  
Primary Faculty: Cell Biology & Anatomy Faculty  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 1

### **756B Head & Neck**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: February  
Student Limit: 2-4  
Primary Faculty: Cell Biology & Anatomy Faculty  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 1

### **757B Upper & Lower Extremities**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: March  
Student Limit: 2-4  
Primary Faculty: Cell Biology & Anatomy Faculty  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 1

### **758D Eye & Orbit**

Credit Hours: 2  
Number of Weeks: 2  
Available Times: March  
Student Limit: 2-4  
Primary Faculty: Cell Biology & Anatomy Faculty  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 1

**759D Dissection of the Brain**

Credit Hours: 2  
 Number of Weeks: 2  
 Available Times: March  
 Student Limit: 2-4  
 Primary Faculty: Cell Biology & Anatomy Faculty  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 1

**760B Topics in Cell Biology**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: January  
 Student Limit: 2  
 Primary Faculty: Drs. Rosenquist & Baxter  
 Faculty Contact: Dr. Rosenquist (Ext. 4032)  
 Option Number: 2

**FAMILY MEDICINE:****743A/B Nicotine Addiction and Smoking Cessation**

(Biochemical and Physiologic Aspects)

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: Every Month  
 Student Limit: 1  
 Primary Faculty: Dr. Paul Paulman  
 Faculty Contact: Dr. Paul Paulman

**744A/B Depression**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times:  
 Student Limit:  
 Primary Faculty: Dr. Jeff Susman  
 Faculty Contact: Dr. Jeff Susman

**745A/B Sleep and Sleep Disorders**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times:  
 Student Limit:  
 Primary Faculty: Dr. Jeff Susman  
 Faculty Contact: Dr. Jeff Susman

**752A Chemical Dependency and Addiction Medicine**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: July through December  
 Student Limit: 2  
 Primary Faculty: Kathleen Grant, M.D. (VA Medical Center)  
 346-8800 Ext. 4301  
 Additional Faculty: Edward Pease, M.D. (VA Medical Center)

**752B Chemical Dependency and Addiction Medicine**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: January through April  
 Student Limit: 2  
 Primary Faculty: Kathleen Grant, M.D. (VA Medical Center)  
 346-8800 Ext. 4301  
 Additional Faculty: Edward Pease, M.D. (VA Medical Center)

Students will spend this selective month on the Substance Abuse Treatment Center (SATC) at the Omaha VA Hospital. Under the supervision of Dr. Grant, an internist and Dr. Pease, a psychiatrist, students will participate in the evaluation, assessment, and treatment of chemically dependent patients.

## INTERDEPARTMENTAL

Students will also be required to complete assigned readings, including literature on basic science issues related to chemical dependency.

### Objectives:

1. Students will become skilled in taking substance abuse histories.
2. On physical exam, students will identify consequences of substance use.
3. Students will achieve familiarity with the classes of drugs of abuse and their use.
4. Students will be conversant with DSM-IV criteria for the diagnosis of substance abuse and dependence.
5. Students will become knowledgeable of detoxification methods used to treat physical withdrawal.
6. Students will participate in both inpatient and outpatient therapeutic interventions including: group therapy, individual counseling, 12-step groups (e.g., AA).
7. Students will explore basic science topics relevant to an understanding of the etiology, natural history, and treatment of substance abuse (e.g. neurobiology, pharmacology, genetics).

Faculty Contact: Dr. Paul Paulman  
Available Times: January  
Student Limit: 2-4  
Primary Faculty: Cell Biology & Anatomy Faculty  
Faculty Contact: Dr. Rosenquist (Ext. 4032)  
Option Number: 1

### Performance Objectives:

1. Skillful completion of history and physical exams on patients admitted to SATC.
2. Appropriately diagnose and develop treatment plans for patients based on H&P and DSM-IV criteria.
3. Daily follow-up of patients as they progress through detoxification and treatment, with an emphasis on identifying denial, minimization, craving and other symptoms.
4. Accurate evaluation of patients' status in recovery and recognition of the need for changes in treatment modalities.
5. Completion of assigned readings in chemical dependency to familiarize students with such topics as:
  - a) Familial predisposition;
  - b) Relationship to other compulsive disorders (e.g., eating disorders, compulsive gambling);
  - c) Basic science foundations of chemical dependency and its treatment;
  - d) 12-step model of recovery.

## INTERNAL MEDICINE:

### 730A Diabetes

Credit Hours: 4  
Number of Weeks: 4  
Available Times:  
Student Limit:  
Primary Faculty: Dr. William Duckworth

## PATHOLOGY AND MICROBIOLOGY:

### 720A Of Molecules and Mankind: The Role of the Clinical Laboratory in Patient Care

Credit Hours: 4  
Number of Weeks: 4  
Available Times: October  
Student Limit: 4 - 20  
Primary Faculty: Dr. Gregory Tetrault and  
Dr. James Landmark

### 720B Of Molecules and Mankind: The Role of the Clinical Laboratory in Patient Care

Credit Hours: 4  
Number of Weeks: 4  
Available Times: February  
Student Limit: 4 - 20  
Primary Faculty: Dr. Gregory Tetrault and  
Dr. James Landmark

This selective will discuss basic scientific principles applied to patient testing and the diagnosis of disease. Included in the content will be discussion of test sensitivity and specificity, appropriate selection and interpretation of laboratory tests, test interferences, and sources of test variability. Rational use of the clinical laboratory in monitoring therapy will be discussed. Clinical chemistry, coagulation,

laboratory hematology, immunohematology, immunopathology, microbiology and virology are the specific subject areas to be covered. Didactics will take several forms: lecture, computer-assisted instruction, or case-studies as appropriate. Journal club will discuss recent publications in clinical pathology at least once per week. An important learning resource will be a course syllabus. In addition, a list of recommended reading will be provided. Use of the library is a course requirement.

Grades will be determined by three components:

1. Attendance record.
2. Objective examination comprised of multiple choice and essay questions.
3. To qualify for honors, the student will write a short paper on a topic approved by the course coordinator.

#### **721C Principles of Transfusion and Transplantation**

Credit Hours: 2  
 Number of Weeks: 2  
 Available Times: September  
 Student Limit: 4 - 10  
 Primary Faculty: Dr. Phyllis I. Warkentin and  
 Dr. James Landmark

#### **721D Principles of Transfusion and Transplantation**

Credit Hours: 2  
 Number of Weeks: 2  
 Available Times: January  
 Student Limit: 4 - 10  
 Primary Faculty: Dr. Phyllis I. Warkentin and  
 Dr. James Landmark

This selective will present the cellular and immunological basis of transfusion and transplantation, collection and preservation of both blood components and stem cell preparations, their appropriate administration, and beneficial/adverse outcomes of their use. Histocompatibility principles and testing (including molecular techniques) will be reviewed. Didactics will be lecture and case-studies. There will be a course syllabus, containing topical material, references and a list of recommended reading.

Grades will be determined by two components:

1. Attendance record.
2. Objective examination comprised of multiple choice and essay questions.

#### **722A Research in Pathology**

Credit Hours: 4-12 (suggested 12)  
 Number of Weeks: 4-12 (suggested 12)  
 Available Times: July through December  
 Student Limit: Open  
 Primary Faculty: All Faculty with research orientation

#### **722B Research in Pathology**

Credit Hours: 4-12 (suggested 12)  
 Number of Weeks: 4-12 (suggested 12)  
 Available Times: January through April  
 Student Limit: Open  
 Primary Faculty: All Faculty with research orientation

This selective will involve the student in basic research in pathology and microbiology. The timetable of 12 weeks is suggested to provide an in-depth experience. Briefer selective times are generally unsatisfactory for full involvement. Departmental conferences and activities will be available to the student as appropriate.

Grades will be determined by two components:

1. Attendance.
2. Writing a short paper, or publishing a manuscript on the research being performed.

#### **723A Research Paper/Patient Evaluation**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: Varies (July through December)  
 Student Limit: Open  
 Primary Faculty: Drs. Steven Carson and William Haire

## INTERDEPARTMENTAL

### 723B Research Paper/Patient Evaluation

Credit Hours: 4  
Number of Weeks: 4  
Available Times: Varies (January through April)  
Student Limit: Open  
Primary Faculty: Drs. Steven Carson and William Haire

### 724A Hemostasis/Thrombosis

Credit Hours: 4  
Number of Weeks: 4 minimum  
Available Times: Varies (July through December)  
Student Limit: 2  
Primary Faculty: Dr. Steven D. Carson and  
Dr. William D. Haire

### 724B Hemostasis/Thrombosis

Credit Hours: 4  
Number of Weeks: 4 minimum  
Available Times: Varies (January through April)  
Student Limit: 2  
Primary Faculty: Dr. Steven D. Carson and  
Dr. William D. Haire

In practice, this selective will be a combination of Options 2 and 5. The student will evaluate patients undergoing medical or surgical procedures (e.g. bone marrow harvest) and develop a thorough understanding of the relationship between the patient's disease and its treatment. The focus will be on procedures or treatments predicted to predispose patients to thrombosis or inflammatory responses, and the student will conduct specific biochemical tests reflective of hemostatic/inflammatory changes in the patients. Tests will include measuring the tissue factor in circulating blood monocytes (a prothrombotic inflammatory response), and may include determination of fVII/fVIIa ratio as well as the level of total fVII. Through the scientific literature and discussion with the instructors, students will learn the current information relating hemostasis and inflammation and apply this knowledge in evaluation of the patient response to treatment.

**Papers:** The student will summarize his/her experience in a brief but detailed descriptive paper including: (1) background information regarding (a) the patient's underlying disease; (b) role of the current procedure in treatment of the disease; (c) role of the disease and/or procedure in predisposing to thrombosis/inflammation; (d) proposed role of tissue factor and factor VII in development of complications associated with the disease or procedure; (2) methods of (a) patient sampling; (b) laboratory assays; (3) findings; (4) summary and speculation.

**Clinical activities:** Dr. Haire will direct the patient evaluation aspect of this selective. Dr. Haire will direct the student in identification of appropriate patients, obtaining informed consent for participation in the study, and obtaining clinical samples for evaluation.

**Laboratory activities:** Dr. Carson will direct the student in handling and assays of the patient specimens. The student will learn to isolate mononuclear cells and measure their tissue factor procoagulant activity as well as conduct clotting assays on plasma for determination of coagulation factor levels. These assays will be applied to patient specimens, and the results will be considered with regard to medical procedures to which the patient has been subjected.

## PHARMACOLOGY:

### 740A Clinical Pharmacology

Credit Hours: 4  
Number of Weeks: 4 minimum  
Available Times: October  
Student Limit: Minimum of 12 - Maximum of 18  
Primary Faculty: Dr. Terry Hexum

#### Format:

1. Lectures providing background basic or clinical material
  - a. 3 topics (see Topic List) discussed/week
  - b. Topics consist of one hour introduction/background by faculty, plus a key paper discussing the current therapy. All students read the paper but only 4-6 students select and then discuss one of the various aspects of the topic, e.g. drug interactions, new/investigational drugs, pharmacokinetics.

2. Student presentations on the pharmacotherapy
  - a. 4-6 student presentations/topic (20 or 30 min. each)
  - b. Topics announced before first meeting of the Selective, e.g., WEEK ONE will consist of three cardiovascular topics (students choose one aspect of the three topics for their presentation)
  - c. Current therapy - oral report
  - d. Pharmacokinetics of current drugs - oral report
  - e. Drug interactions - oral report
  - f. New/investigational drugs - oral report
3. Written reports - Medical Letter format (due at end of Selective)

Topic List (under consideration)

Cardiovascular — Hypertension  
 Congestive heart failure  
 Angina  
 Arrhythmias

Other Systems — Liver Disease  
 Kidney Disease  
 Infections  
 Neoplasms

Psych/Neuro — Schizophrenia  
 Depression  
 Anxiety  
 Parkinsonism

Special Groups — Pregnancy and Nursing  
 Neonate  
 Pediatric  
 Geriatric

**Faculty:**

1. Pharmacology faculty — lecturing, tutoring, advising (each faculty member will be assigned at least one student for each weekly session)
2. Clinical faculty — introductory and/or background material
3. Pharmacy faculty — resource, e.g., pharmacokinetics

**Contact Hours:**

1. Lecture (1 or 2 hours) — first hour, Monday through Friday mornings, presentations of introductory/background (clinical) material
2. Student presentations — second hour, Monday through Friday mornings
3. Student research and preparation (library and faculty consultation)
4. Computer-assisted tutorials, e.g., pharmacokinetics, therapeutics
5. Preparation of Medical Letter style research paper in Medical Letter format

**741A Laboratory Research in Pharmacology**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: July through December  
 Student Limit: Open  
 Primary Faculty: Pharmacology Faculty

**741B Laboratory Research in Pharmacology**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: January through April  
 Student Limit: Open  
 Primary Faculty: Pharmacology Faculty

**Format:** Basic science research in the lab of one of the faculty members of the Department of Pharmacology.

## INTERDEPARTMENTAL

### Objectives:

1. Examine an area in more depth than what was covered in the basic pharmacology course by becoming familiar with and learning how to critically evaluate scientific literature associated with a given research area.
2. Conduct experiments directed towards testing a specific scientific hypothesis.
3. Learn how to write a scientific paper by providing a report of the research activities in the format of a primary scientific communication. This report could be presented orally.

Students should arrange their research individually with the faculty member of their choice in the Department of Pharmacology.

#### 742A Literature Research in Pharmacology

Credit Hours: 4  
Number of Weeks: 4  
Available Times: July through December  
Student Limit: Open  
Primary Faculty: Pharmacology Faculty

#### 742C Literature Research in Pharmacology

Credit Hours: 2  
Number of Weeks: 2  
Available Times: July through December  
Student Limit: Open  
Primary Faculty: Pharmacology Faculty

#### 742B Literature Research in Pharmacology

Credit Hours: 4  
Number of Weeks: 4  
Available Times: January through April  
Student Limit: Open  
Primary Faculty: Pharmacology Faculty

#### 742D Literature Research in Pharmacology

Credit Hours: 2  
Number of Weeks: 2  
Available Times: January through April  
Student Limit: Open  
Primary Faculty: Pharmacology Faculty

**Format:** Based on library research, consultation with basic science and clinical faculty, the student will prepare a critical evaluation of the pharmacological treatment for a specific disease entity or a critical evaluation of a new medication.

### Objectives:

1. Examine the current pharmacological agents which are available for treating a disease including a thorough investigation of the scientific literature and discussion with specialists in the field.
2. Determine the advantages and disadvantages of each class or type of medication available including an analysis of the pharmacokinetic properties, the pharmacodynamic properties, drug interactions, adverse effects and contraindications.
3. Summarize the results of the research project in the form of a written document(perhaps patterned after the Medical Letter). The results might also be presented as a seminar, in Grand Rounds or as a lecture to other students.

Students should individually make arrangements with the faculty member of their choice in the Department of Pharmacology.

## PHYSIOLOGY AND BIOPHYSICS:

#### 725A Mechanisms of Heart Failure

Credit Hours: 4  
Number of Weeks: 4  
Available Times: August  
Student Limit: 4 minimum  
Primary Faculty: Drs. Irving Zucker, Harold Schultz, Kaushik P. Patel and Maria-Teresa Olivari



**Objective:**

To introduce students to basic mechanisms involved in the mediation of acute and chronic heart failure. Concentration on contractile, electrophysiological and neurohumoral dysfunction. Emphasis will be placed on basic pathophysiological mechanisms.

**Format:**

Students will meet once per week for two hours in groups of at least four students. Current literature will be reviewed and discussed. Students will be given a specific problem area to research and present a position paper on. This will be in a pro/con format (e.g. Ace inhibitors vs. digitalis in the treatment of decompensated heart failure; Sympathoexcitation in heart failure is due to arterial baroreceptor inhibition.). In addition, a laboratory experience will be provided. This will entail either performing and evaluating an echocardiograph or evaluation of cardiac catheterization data in animals with experimental heart failure.

**726A Cardiovascular Adjustments to Environmental Stress****(Microgravity and Altitude)**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: September  
 Student Limit: 4-8  
 Primary Faculty: Dr. Kurtis G. Cornish

**726B Cardiovascular Adjustments to Environmental Stress****(Microgravity and Altitude)**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: January  
 Student Limit: 4-8  
 Primary Faculty: Dr. Kurtis G. Cornish

**Format:** Journal Club/Library Research

**Meetings:** One hour each day to be arranged with students and faculty.

**Faculty:** A group of basic science and clinical faculty. At least one basic scientist and clinician to be present at each session.

**Papers:** Each student will present 2 papers during the 4 week period. Papers will be selected by the faculty or be selected by the students and approved by the coordinator. Students will be expected to read all papers prior to their presentation. Papers will have a basic science emphasis.  
 Library

**Research:** Each student will do library research and write a paper on a topic approved by the coordinator. A one-half hour summary of the topic will be presented for the entire group on the last or the next to last day of the selective.

**Clinical Activities:** Students will take part in selected clinical activities related to hypertension during the 4 week period.

**Research to the Topic:** Students will participate in relevant research that is in progress at the time relating to the topic.

**727A Research in Physiology**

Credit Hours: 4  
 Number of Weeks: 4 minimum  
 Available Times: Varies (July through December)  
 Student Limit: Open  
 Primary Faculty: Physiology Faculty

**727B Research in Physiology**

Credit Hours: 4  
 Number of Weeks: 4 minimum  
 Available Times: Varies (January through April)  
 Student Limit: Open  
 Primary Faculty: Physiology Faculty

## INTERDEPARTMENTAL

### 728A Development of PBL Cases

Credit Hours: 4  
Number of Weeks: 4 minimum  
Available Times: Varies (July through December)  
Student Limit: Open  
Primary Faculty: Drs. Michael Mann and Jim Medder

### 728B Development of PBL Cases

Credit Hours: 4  
Number of Weeks: 4 minimum  
Available Times: Varies (January through April)  
Student Limit: Open  
Primary Faculty: Drs. Michael Mann and Jim Medder

### 729B Mechanisms and Treatment of the Migraine Headache

Credit Hours: 4  
Number of Weeks: 4  
Available Times: February  
Student Limit: 4  
Primary Faculty: Dr. Frank Clark

Migraine headache can be a seriously disabling disorder that affects a large proportion of the population, affecting more women than men. This experience will examine the hypothesis that despite the wide distribution and seriousness of this disorder, proper diagnosis is often missed by physicians, and even when correctly diagnosed, migraine is often treated far less well than it could be, even by neurologists. Depending on how many students work on the project, we will try to accomplish some or all of the following aims:

1. Construct an up-to-date database of the mechanisms of the migraine headache from studies in the literature, interviews with practicing physicians and interviews with researchers in the field.
2. Document the methods currently used to treat migraine headache and the success of these methods. Examination will be conducted on the diagnostic procedures and treatments currently used by a) primary care physicians, b) neurologists, c) headache clinics, d) hospital emergency rooms and emergency medicine clinics, and d) where possible, patients. This will be done by interviews.
3. Examine the curriculum at UNMC and several other medical schools to determine what is currently taught about the mechanisms, diagnosis and treatment of migraines.
4. Use the information gathered to:
  - a) present a seminar of our findings on the treatment of migraines to the fourth year class;
  - b) offer written suggestions to the UNMC Curriculum Committee about how to improve training in the diagnosis and treatment of migraines. If necessary, design a workshop or an elective course for future classes.
  - c) suggest new avenues for research, especially for research that can be done at UNMC whether by students or faculty.

### 761 Ionic Mechanisms of Antiarrhythmic Therapy

Credit Hours: 4  
Number of Weeks: 4  
Available Times: TBA  
Student Limit: 4  
Primary Faculty: Drs. George Rozanski, John Windle and Arthur Easley

This selective is designed to develop an in-depth, basic understanding of the cellular mechanisms of clinically relevant cardiac arrhythmias and the ionic basis of antiarrhythmic therapy.

Each student will be expected to write a research paper focusing on the basic mechanisms underlying the effectiveness of a class or particular type of antiarrhythmic drug (chosen by the student). As part of the selective, students will observe clinical electrophysiological (EP) studies that test the efficacy of drug action and will participate in their analyses. This portion will include introduction to the basic procedures involved in EP studies and analyses of selected recordings that relate to the student's research topic.

## PREVENTIVE AND SOCIETAL MEDICINE:

**747A Humanities and Law: Health and Poverty**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: November  
 Student Limit: 4-6  
 Primary Faculty: Drs. Andrew Jameton, Paul Reitemeier,  
 Jessica Pierce, Dan Strickland and Fred McCurdy

**747B Humanities and Law: Health and Poverty**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: March  
 Student Limit: 4-6  
 Primary Faculty: Drs. Andrew Jameton, Paul Reitemeier,  
 Jessica Pierce, Dan Strickland and Fred McCurdy

Students will examine the factors in poverty affecting health and access to health care services.

**Objectives:** Students will be better able to:

- Identify health problems related to income.
- Analyze journal articles on health problems related to poverty.
- Assess proposed solutions to health problems of poverty.
- Provide appropriate clinical services to poor patients.

**Topics Covered:** Health impacts of poverty in the U.S.; health impacts of poverty on a global scale; controversies over research methods on poverty; health impacts of wealth; types of measures of poverty, income and class; accommodating health services to the poor; financial and non-financial obstacles to access to care; income support services for the poor; federal and state medical aid to the poor; charity care; obligations of physicians; income impacts of health status; poor children and elderly; moral responsibilities of the poor; empathy.

**Student Activities:** Review of literature; written analysis and review of a specific health problem related to poverty; daily diary of reflections; semi-weekly meetings with faculty; volunteer service and observation in a clinic serving the poor; volunteer service and observation in a social service agency.

**Assessment:** Daily diary and a short paper (8-10 pages) reviewing a specific topic submitted twice, once for revisions and once for evaluation. Full attendance is required.

**748A Humanities and Law: The Culture of Health Care**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: October  
 Student Limit: 8-12  
 Primary Faculty: Drs. Jessica Pierce, Paul Reitemeier, Andrew Jameton,  
 Robert Coleman, David Steele and Carl Greiner

**748B Humanities and Law: The Culture of Health Care**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: January  
 Student Limit: 8-12  
 Primary Faculty: Drs. Jessica Pierce, Paul Reitemeier, Andrew Jameton,  
 Robert Coleman, David Steele and Carl Greiner

Students will broaden their understanding of health care from the literary and sociological standpoint by the study and analysis of selected key works on health care.

**Objectives:** Students will be better able to:

- Reflect on the nature of health care practice.
- Understand the links of health care practice to larger social institutions and values.
- Compose a short, well-argued, grammatically correct, and informative essay.

**Topics Covered:** Students will read key interpretations of medicine in literature and social science, such as: *The Death of Ivan Ilych*, *The Social Transformation of American Medicine*, *Other People's Children*, *The House of God*, *Arrowsmith*, *Forgive and Remember*, *Experiment Perilous*, etc. Two films will be shown in evenings followed by discussion (such as *The Citadel*, *The Doctor*, *Crimes and Misdemeanors*). A reading list of roughly eight key works will be selected by faculty. Semi-weekly discussion meetings will be held.

## INTERDEPARTMENTAL

**Student Activities:** Daily meetings with faculty; daily writing of short papers; composition of a long paper submitted once for review and once for assessment.

**Assessment:** Students will write short papers every day and engage in a daily discussion meeting on their writing. Selected films (on videotape) will be required for analysis. An eight to ten page paper relating literary to sociological studies will also be required. Full attendance is required.

### **749A Humanities and Law: Topics in Health Care Ethics**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: September  
Student Limit: 1-2  
Primary Faculty: Drs. Jessica Pierce, Paul Reitemeier, and Andrew Jameton

### **749B Humanities and Law: Topics in Health Care Ethics**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: February  
Student Limit: 1-2  
Primary Faculty: Drs. Jessica Pierce, Paul Reitemeier, and Andrew Jameton

Students will conduct a deep analysis of a specific, carefully defined issue in health care ethics.

**Objectives:** Students will be better able to:

- (a) Analyze an ethical problem in detail; or
- (b) Formulate a focused qualitative research question relative to ethics.

**Topics Covered:** The specific ethical question will be negotiated between the students and the instructor at least two months prior to the beginning of the rotation. The question must be narrowly circumscribed and researchable in a month period. It may either be a direct ethical question or an empirical question relevant to an ethical question. Examples would be "Would it be ethical, as a matter of policy, to place a higher priority on healthier patients for access to solid organ transplants?" "To what extent has the Dutch experience with assisted suicide resulted in abuses?"

**Student Activities:** Methods will vary. They will include library research, interviews, supervised writing, formulating questionnaires, and piloting qualitative studies.

**Assessment:** A focused and frequently revised ethics paper to be submitted for publication or a research protocol suitable for submission to the IRB.

### **750A Humanities and Law: Human Health and the Environment**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: August  
Student Limit: 4-5  
Primary Faculty: Drs. Jessica Pierce, Andrew Jameton, Susanna Von Essen, Pat Iverson and Dan Strickland

### **750B Humanities and Law: Human Health and the Environment**

Credit Hours: 4  
Number of Weeks: 4  
Available Times: March  
Student Limit: 4-5  
Primary Faculty: Drs. Jessica Pierce, Andrew Jameton, Susanna Von Essen, Pat Iverson and Dan Strickland

Students will explore environmental aspects of human health and health care delivery systems through site visits, library research, and interviews.

**Objectives:** Student will be better able to:

- (a) Analyze the environmental impact and dependencies of specific therapies.
- (b) Assess environmental causes of health problems.
- (c) Educate patients concerned about toxic exposures and environmental change.
- (d) Interpret medical practice in a global environmental context.

**Topics Covered:** General effects of environmental change on human health; major controversies over health impacts; environmental impact of health systems; engineering analysis of specific therapies; priority setting in public health concerns; extent of medical responsibility; communication with patients; identifying environmentally mediated health problems; impact of health care on the environment; role of medicine in the future; appropriate medical responses to environmental health problems.

**Student Activities:** Activities will vary but include library research; environmental analysis of specific therapies through observation, interviews, and library research; supervised writing; clinical observation of public health problems; urban and rural site visits of pollution sources; interviews with environmentalists and public health professionals.

A reading core will be required of all students. This will include readings on: a) the current health impacts of environmental issues (mainly from medical and public health journals); b) philosophical considerations of current paradigms of health and medical care (which will be drawn from both bioethics literature and from the field of environmental ethics); and c) the current environmental situation (drawn from environmental ethics, ecology, and environmental policy). In addition to the core readings, students will be required to choose a topic on which they will focus special attention. Their research and reading on this topic will be self-directed, but will be expected to cover both medical and environmental literature.

**Assessment:** A brief paper (8-10 pages) analyzing an environmental health problem due at the end of the rotation. The topic of the paper must be decided upon before the rotation begins. Full participation in activities is required.

#### **751A Humanities and Law: Abortion: Cultural, Ethical and Medical Issues**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: October  
 Student Limit: 6-12  
 Primary Faculty: Dr. Paul Reitemeier

#### **751B Humanities and Law: Abortion: Cultural, Ethical and Medical Issues**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: March  
 Student Limit: 6-12  
 Primary Faculty: Dr. Paul Reitemeier

Students will conduct a focused philosophical investigation of the moral issues surrounding the debate of abortion and public policy.

**Objectives:** Students will be better able to:

- Analyze multi-disciplinary and culturally diverse literature regarding abortion issue.
- Improve written communication skills.
- Develop formal arguments on ethical concerns that are empirically grounded and logically sound.
- Clarify their personal beliefs and discuss public issues in a tolerant and informed way.

**Student Activities:** This will be in a seminar structure. Students will meet twice a week for a minimum of two hours to discuss assigned readings and students' written works-in-progress. There will be weekly assignments of very short (2 pages maximum) responses to instructor prepared questions. Students will be required to present a final term paper (minimum 20 pages) or oral presentation (minimum 1 hour).

**Assessment:** Student weekly writings will be point graded (4.0 scale) and weighted 20%. Final presentation will be point graded (4.0 scale) and weighted 80%. Attendance at all semi-weekly sessions is required.

### **SURGERY**

#### **762A Senior History and Physical Diagnosis Elective**

Credit Hours: 4  
 Number of Weeks: 4  
 Available Times: September - December  
 Student Limit: 5  
 Primary Faculty: Dr. Ed Mlinek

## INTERDEPARTMENTAL

### 762B Senior History and Physical Diagnosis Elective

Credit Hours: 4  
Number of Weeks: 4  
Available Times: January - April  
Student Limit: 5  
Primary Faculty: Dr. Ed Mlinek

#### Responsibilities:

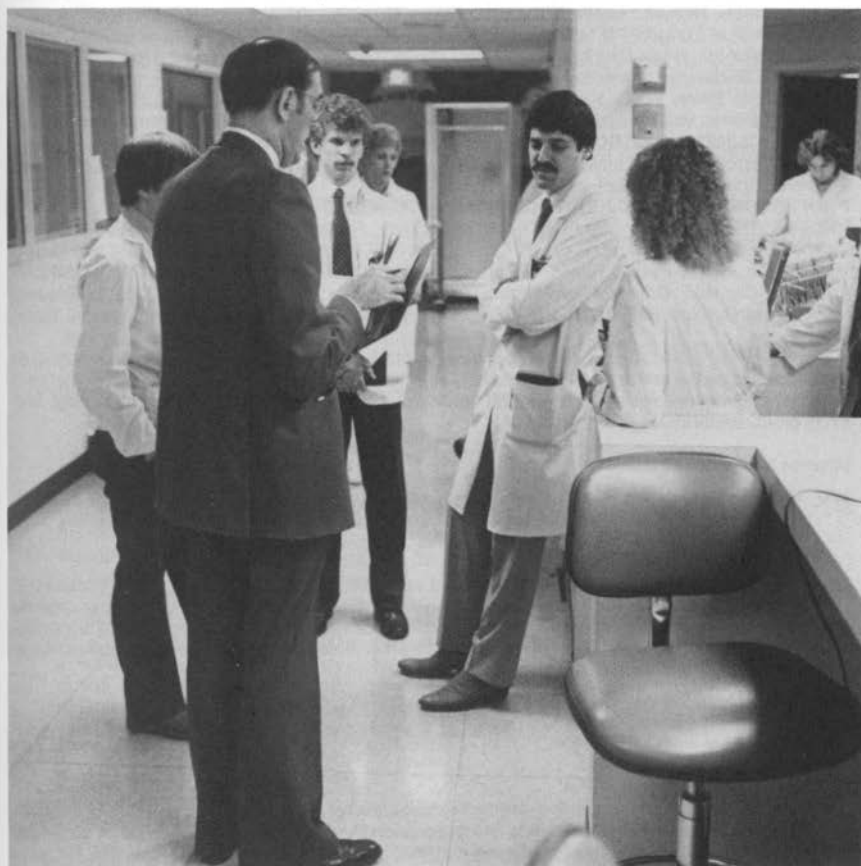
ALL THREE ACTIVITIES ARE REQUIRED DURING THIS SELECTIVE:

1. Senior student history and physical preceptor for second year medical student.  
Time Commitment: 4 hours per month (September-April) 8X4 = 32 hours
2. Advanced Skills Development  
In the selected elective month time will be spent in the Emergency Department with Dr. Mlinek developing history and physical exam skills. Time Commitment: Minimum of 48 hours during the month
3. Scholarly Activity  
A paper project researching the background and usefulness of various history and physical exam skills will be required. This activity may lead to a research project or review paper helping to delineate what skills should be emphasized during the history and physical diagnosis course.

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## INTERNAL MEDICINE

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**PROFESSORS** Armitage (Chairperson), Bashir, Duckworth, Ecklund, Foley, Fusaro, Gendelman, Kessinger, Klassen, Mattole, Meyer, Olivari, Paustian, Preheim, Rennard, Salhany, Sorrell, Tempero, Tobin, Tuma, R. Wigton, Zetterman; **ASSOCIATE PROFESSORS** Bierman, Bittner, Buchalter, Campbell, Casey, Chambers, J.C. Davis, DeBoer, Deligonul, Donovan, Dworzack, Gallagher, Haire, Larsen, Lorenzo, Miles, Moore, J. O'Dell, Potter, Quigley, Reed, Robbins, Schafer, Spruzem, Tape, Thompson, Torkelson, Von Essen, Vose, Windle; **ASSISTANT PROFESSORS** Armbruster, Barrington, Beckmann, Bishop, Brand, Cochran, Dominguez, Easley, Jr., Eberle, Flach, Floreani, Foster, Gentry, Gorby, Gust, Hamel, Horowitz, Horrum, Jones, Karim, Keller, McAlevy, McCashland, McIvor, D.O'Dell, C. Olson, Oskarsson, Piquette, Porter, Romberger, Rupp, Safranek, Samoil, Sears, Shurmur, Sisson, Swindells, Tarantolo, Thiele, Thierfelder, Weide, Welsh, Wigton, Wszolek, Young;

## INTERNAL MEDICINE

**INSTRUCTORS** Gasecki, Hao, Ries; **CLINICAL PROFESSORS** Baker, J. Bertoni, Crotty, Eliot, O'Donohue, Stone; **CLINICAL ASSOCIATE PROFESSORS** Adams, Block, Burgher, Burnett, Caudill, Connolly, Feagler, Gard, Goldner, Hamilton, Hartman, Jr., Harvey, Hoelsing, Hubbard, Kelsey, Knight, Long, Mailliard, Miscia, Muffy, Ohr, D. Olson, Reed, Osenlof, Settles, P. Smith, Ward, A.L. Weaver, W.F. Weaver, Wilson; **CLINICAL ASSISTANT PROFESSORS** Adickes, Asher, Ashley, Bailey, Basler, Berg, Birkmann, Bleicher, Bobenhouse, Bouda, Brandt, Brennan, Brouillette, Burket, Cannella, Cassling, Chakraborty, Coatsworth, Colan, Commers, Cooper, Cotton, Danneel, Darst, S.L. Davis, Denis-Flows, Denzler, Dille, Dowling, Jr., Draur, Drynalski, Fischer, Garneau, Hammes, Henricks, Holcombe, Holmes, Hranac, Hrnicek, Huerter, Hutchins, D. Jones, M. Jones, Kader, Kingsley, Klein, Knott, Korbitz, E. Langdon, R.M. Langdon, Jr., Lewis, Luckasen, Mathews, Mediratta, Maxwell, Moravec, Jr., Morgan, A. Morse, Munyon, Nashelsky, Neumann, Nye, O'Brien, Osterholm, Passer, Policky, Prigeon, Purves, Roccaforte, Rudersdorf, Sage, Schafer, Schima, Scholer, Schwid, Scott, Sidner, Silverberg, Slabaugh, D.L. Smith, S. Smith, Sojka, Stahl, Steg, Stekoll, J. Stitche, R.J. Stitche, Stivins, Sundell, Sutton, Taylor, Verdrame, Valentine, Vosik, Wagener, Jr., Wahl, Watson, Weber, Wees, Westmore, Wilkening, Zacharia; **CLINICAL INSTRUCTORS** Bacon, Brown, C. Coulter, Dewey, Dyke, Elts, H. Frankel, Garwood, Haag, Maricon, McMullen, Niehaus, Novak, Papenfuss, Powers, Regan, Shiffermiller, Simmons, Sposato, Spry, Stemper, Stern, Strnot, Jr., Till, Tomhave, Waltemath, Wilkins; **ADJUNCT PROFESSORS** Barak, **ADJUNCT ASSISTANT PROFESSOR** Givner; **ADJUNCT ASSOCIATE PROFESSOR** Donohue; **ADJUNCT INSTRUCTOR** R. Meyer; **COURTESY PROFESSORS** Dalrymple, Hofschire, Holister, L. Olson, Talmadge; **COURTESY ASSISTANT PROFESSORS** Gross, Maloley, McAllister, Pease, Ranno, Rosanski, Throne **COURTESY ASSOCIATE PROFESSORS** Antonson, Clemens, Greiner, Hill, McComb, Paul, Stratbucker; **SENIOR CONSULTANTS** Greene, Hankins, Morris, Wurl; **EMERITUS PROFESSORS** Aita, Andrews, Grissom, Harman, Lemon, Ware, R.S. Wigton

It is the aim of instruction in Internal Medicine to establish a broad and thorough understanding of patients with disease and to develop a scholarly approach to the study of medical problems. Intensive study by each student of patients utilizing faculty directed discussions, independent reading, and small group conferences is emphasized.

### Internal Medicine—IMED

#### 360 Gerontology for the Health Care Professional, Foster

Periods offered: Fall and Spring Semesters (evening)

Semester hours: 3

Prerequisite: None

Knowledge of gerontology and geriatric care is increasingly important for health professionals. Students in this class will study demographic and psychosocial aspects of aging as well as physiological changes with age, nutrition, rehabilitation, assessment, and special needs of minority elderly. Field trips will emphasize the various environments in which older persons receive health care and the professionals who provide that care.

#### 705A Basic Medicine Required Clerkship, Staff — UNMC, OVAM

**705B** Periods offered: Each 12 weeks

Student limit: 30-33

Semester hours: 12

Where to Report: T.B.A.

The student spends one half of the twelve week clerkship as an integral member of a health care team responsible for the care of inpatients on the Internal Medicine service at either the Omaha Veterans Administration Hospital or UNMC. During the other half of the clerkship, students may elect a variety of medicine subspecialties and outpatient clinical experiences at the University of Nebraska Medical Center. Throughout the clerkship, students will assume responsibility for the initial patient assessment and daily care commensurate with their level of training, supervised by Internal Medicine residents and attending faculty. Skills in patient interaction, decision making, and the fundamentals of Internal Medicine will be reviewed in formal sessions and daily attending rounds.

#### 709 Geriatric Clerkship I, Potter and Staff

Periods offered: Each 4 weeks (except July)

Student limit: 2

Semester hours: 4

Prerequisite: None

Geriatric health care practice is the focus of this clerkship. Emphasis is on functional assessment; sound treatment methods, including preventive care; successful practices and programs in the community; and the special and often recurring health needs of the older patient. The services available include the multidisciplinary assessment program, long-term care facilities (requires use of a car), and the geriatric rehabilitation unit and selected community agencies.



**712 On-Campus Dermatology Clerkship, UNMC Hospitals and Affiliates**

Periods offered: Each 4 weeks  
 Student limit: 1  
 Semester hours: 4  
 Prerequisite: Senior Status

Each student will be supervised by the staff in dermatologic interview, physical diagnosis, topical therapy, and cutaneous therapeutic procedures (skin biopsy, cautery, cryotherapy, etc.)

\*You must pre-arrange this elective with: Sandy Hruska, Room 5502, UMA, 559-9386.

**714 Lincoln Dermatologist Clerkship**

Periods offered: Each 4 weeks  
 Student limit: 1 per practitioner  
 Semester hours: 4  
 Prerequisite: None

This full-time elective is spent away from University Hospital, with a volunteer dermatologic faculty member in his/her private office (Lincoln).

\*You must pre-arrange this elective with: Sandy Hruska, Room 5502, UMA, 559-9386.

**715 Inpatient General Internal Medicine Clerkship, Osterholm, Eilts, Stern, Darst — BCMH**

Periods offered: Each 4 or 8 weeks  
 Student limit: 1  
 Semester hours: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)

An inpatient general internal medicine experience. Students electing eight weeks will have preference.

**716 Inpatient General Internal Medicine Clerkship, Lewis and Watson — Methodist**

Periods offered: Each 4 or 8 weeks  
 Student limit: 1  
 Semester hours: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)

An inpatient general internal medicine experience. Students electing eight weeks will have preference.

**717 Inpatient MICU Clerkship, Ecklund and Staff — OVAMC**

Periods offered: Each 4 weeks  
 Student limit: 2  
 Semester hours: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)

This clerkship offers opportunity for participation in the management of acutely ill patients, working closely with the intensive care unit Junior House Officer, supervisory resident, and attending physician. The experience is enhanced because of frequent consultation with specialty services. The student is also encouraged to participate in the regularly scheduled activities of the medical service.

**720 Adult Cardiology**

UNMC — Miles and Staff  
 OVAH — Karnegis and Staff  
 Immanuel — Sojka  
 Methodist — Draur

Periods offered: Each 4 weeks  
 Student limit: 10 (4 UNMC, 4 OVAH, 1 Immanuel, 1 Methodist)  
 Semester hours: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)

\*You must pre-arrange Immanuel and Methodist with: Sandy Hruska, Room 5502, UMA, 559-9386.

UNMC — within the clinical cardiology rotation, the student may choose between two specific areas:

**Inpatient — Consultive Cardiology:** The student may have significant care responsibilities for patients either on the Inpatient or Consultation Services. These responsibilities will allow daily teaching attending rounds and exposure to laboratory evaluation including electrocardiography, echocardiography, ambulatory monitoring, exercise testing, cardiac catheterization, angioplasty and care of acute myocardial infarction.

## INTERNAL MEDICINE

**Electrophysiology and Electrocardiography:** The student may work with the electrophysiology team performing both inpatient and consultative care. This rotation will allow exposure to electrocardiography, ambulatory monitoring, electrophysiologic studies and advanced care of arrhythmias including both drug therapy and implantable devices.

In addition to daily teaching rounds, a daily patient review conference and three cardiology didactic conferences are available weekly.

**OVAH** — A clinical cardiology rotation for medical students has been designed at the Omaha VAMC. Students are incorporated as an integral part of the service and work closely with the cardiology residents. Students have the opportunity to be personally involved in the diagnosis and treatment of the most frequent and important cardiac problems. Learning to read electrocardiograms is also an important part of the clerkship. Opportunities also exist to observe treadmill exercise testing, echocardiography, phonocardiography, and cardiac catheterization. Attending cardiologists provide daily comprehensive teaching rounds for students and house officers. Cardiology Conferences are held each week. Staffing consists of cardiologists affiliated with both the University of Nebraska and Creighton Medical Schools. Creighton medical students also participate in this rotation. Students may attend cardiology lectures offered at either school by attending the conference with a representative from the other school. The completion of this clerkship should enable the student to function comfortably as an intern when faced with cardiology patients in the Emergency Room or on the ward.

### **722 General Medicine, Meyer and D. O'Dell**

Periods offered: Each 4 weeks (July to September, November to March)  
Student limit: 12 Maximum; 3-4 Minimum 14 (Jan, Feb, Mar)  
Semester hours: 4  
Prerequisite: 705 (Internal Medicine Clerkship)

In this period of one month, this elective will review basic concepts in internal medicine, ECG, and problem solving.

### **723 Diabetes, Endocrinology and Metabolism, Duckworth, Gallagher, Ecklund, Larsen, Tobin and Weide — UNMC/VA**

Periods offered: Each 4 weeks  
Student limit: 3  
Semester hours: 4  
Prerequisite: 705 (Internal Medicine Clerkship)

Each student will have direct management responsibility for care of patients on the Diabetes, Endocrinology and Metabolism service under the supervision of house officers and staff. Particular emphasis is placed on the diagnosis and treatment of those endocrine disorders encountered with the greatest frequency in the practice of medicine, specifically, diabetes mellitus and thyroid diseases. There will be adequate opportunity to acquire a working understanding of the complex diagnostic approaches for the less common endocrine disorders (adrenal, pituitary and others). Students who elect an eight week rotation will have increasing responsibility for primary patient care and the opportunity to pursue special projects of a clinical or investigative nature.

### **724 Gastroenterology, Quigley and Staff — UNMC, D. Schafer, and Staff — OVAMC, E. Schafer — BCMH**

Periods offered: Each 4 weeks  
Student limit: 3 (1 UNMC, 1 OVAH, 1 BCMH)  
Semester hours: 4  
Prerequisite: 705 (Internal Medicine Clerkship)

This elective in digestive diseases and nutrition emphasizes the application and correlation of the basic science principles of physiology, pharmacology, biochemistry and pathologic anatomy in clinical gastroenterology. Active student participation in patient care and involvement in bedside teaching as well as scheduled conferences will be emphasized throughout this elective. There will be one position available at each hospital.

### **726 Infectious Disease, Drs. Preheim, J.C. Davis, Dominguez, Rupp, Swindells — UNMC (Adult), Drs. Preheim, Bittner, Gorby — OVAMC (Adult)**

Periods offered: Each 4 weeks  
Student limit: 2 — UNMC  
1 — OVAMC  
Semester hours: 4  
Prerequisite: 705 (Internal Medicine Clerkship)

Practical concepts of pathogenesis, diagnosis, treatment, and prevention of infections are emphasized. Handouts and discussions highlight rational use of antibiotics, including new agents.

Students evaluate patients for presentation to the attending staff. Daily bedside and hospital microbiology lab rounds teach clinical skills and appropriate use of diagnostic laboratory tests. Conferences include the weekly City-Wide Infectious Diseases Case Conference, where the most interesting infections at Omaha area hospitals are reviewed. Participation in a weekly Travelers Clinic increases students' familiarity with common tropical infections.

**727 Renal, Dr. Hammeke — UNMC, Knight, Fischer and Neuman - BCMH, Egan — OVAMC**

Periods offered: Each 4 weeks  
 Student limit: 3 (1/UNMC, 1/BCMh and 1/OVAMC)  
 Semester hours: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)

Experience with patients having acute and chronic renal disease. Experience in hemodialysis and peritoneal dialysis and contact with kidney transplant patients.

**730 Medical Oncology/Hematology, Armitage, Bashir, Bierman, Bishop, Davis, Dicke, Foley, Haire, Kessinger, Tempero, Reed, Spinolo, Swindells, Vose — UNMC**

Periods offered: Each 4 weeks  
 Student limit: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)  
 Where to Report: Cancer Center 3rd Floor Hospital

Because of a shift in emphasis on diagnostic evaluations from the inpatient to the outpatient setting, the Section of Oncology/Hematology now offers a one-month outpatient rotation that emphasizes evaluation and decision-making in these two subspecialty fields. A four-week rotation on the inpatient service continues to be available as well. In addition to participation in the oncology and hematology clinics, the student will attend morning discussion groups. Alternate Thursdays at 8:00 a.m. bone marrow aspirates and biopsies of both inpatients and outpatients done the previous week will be reviewed and discussed. Following this, the student will attend a Coagulation Conference where clinical problems of hemostasis will be discussed. On the second and fourth Monday the student will attend the general Tumor Conference where cancer cases are discussed by a multimodality group. On the third Wednesday at noon faculty in oncology or hematology will conduct a clinic research conference. The student may choose from the available morning and afternoon clinics. The clinics are somewhat subject-oriented and sometimes are conducted simultaneously. Areas from which to select include general undifferentiated oncology, general undifferentiated hematology, lymphoma, leukemia, coagulation disorders, hemophilia and gastrointestinal malignancies. Opportunities to perform special procedures including bone marrow aspiration, bone marrow biopsy, paracentesis and thoracentesis may occur. The student may elect to assist in a bone marrow harvest if he/she wishes. Opportunities to participate in outstate clinics may also be arranged. Core curriculum subjects are also discussed for one hour once or twice a week with residents on the service that the student can attend.

**731 Inpatient Medicine, Ward — BCMH**

Periods offered: Each 4 weeks  
 Student limit: 2  
 Semester hours: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)

Training in the principles of neurophysiology in relation to the psychophysiologic reactions with emphasis on the management of patients with psychophysiologic illnesses. Students are offered bedside training in the diagnosis and management of many of the chronic and acute diseases which must be managed by practicing internists as well as those in the academic practice of internal medicine. Experience is also gained by instruction in doing the common procedures.

**733 Introduction to Pulmonary Medicine, Dr. Rennard and Staff — UNMC**

Periods offered: Each four weeks  
 Student Limit: 2  
 Prerequisite: IMED-705 (Internal Medicine Clerkship)  
 Where to Report: University Hospital; 7th Floor, Pulmonary Function Lab; 8:00 a.m.

The Pulmonary/Critical Care Section offers an elective designed to provide the student with a practical background in Pulmonary Medicine. The students on the service will perform in Pulmonary Consultations on inpatients at University Hospital. The course includes experience in the management of both simple and complex pulmonary problems including some ventilator management in selected ICU patients. Additionally the student will learn interpretation of arterial blood gases and pulmonary function tests.

## INTERNAL MEDICINE

### 734 Introduction to Critical Care Medicine, Drs. Sisson, Buchalter and Staff — UNMC

Periods Offered: Each four weeks  
Student Limit: 3  
Prerequisite: IMED-705 (Internal Medicine Clerkship)  
Where to Report: University Hospital; 5th Floor, Adult Intensive Care Unit; 8:00 a.m.

The Pulmonary/Critical care medicine Section offers an elective designed to provide the student with a background in Critical Care Medicine. The students are an integral part of the Critical Care Medicine team and will be assigned to take care of ICU patients with a specific house officer. The course includes practical experience in the management of critically ill patients with opportunities to learn interpretation of ventilator and hemodynamic data, problem-oriented approach to critically ill patients and practical experience in evaluating ICU patients.

### 735 Honors Program in Internal Medicine

#### AVAILABLE BY INVITATION ONLY

The Department of Internal Medicine will personally notify those students who are eligible for participation.

### 736 Clinical Neurology Elective, Bashir, Bennett, Wszolek, Torkelson, Bodis-Wollner, and Normand — UNMC, Lorenzo and Ohr — OVAMC

Periods offered: Each 4 weeks  
Student limit: 5 (UNMC/OVAH)  
Semester hours: 4

This elective offers students a neurology experience where evaluation, diagnosis and managerial approaches are studied under close faculty supervision. Focus is also flexible enough to serve the student's interest in electroencephalography, electromyograph and/or neuropathology.

Students must pre-arrange the following services (BCMh, Methodist, and Lincoln) with Sandy Hruska, Room 5502 UMA, 559-9386.

BCMh — Drs. Goldner, Dannell, Cooper, Cotton, Sundell, and Frankel

Methodist — Dr. J.F. Aita

Lincoln — Drs. Birkman, Smith, Bobenhouse, and Pattee

### 751 Rheumatology

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4

Students will be given an opportunity to work with both inpatients and outpatients with various rheumatic diseases such as rheumatoid arthritis, gout and systemic lupus. Active participation in a weekly rheumatology conference as well as in monthly city-wide rheumatology meetings will be required. Twice weekly didactic sessions covering various topics in rheumatology will also be required.

### 760 Off-Campus Medical Elective

Periods offered: Each 4 weeks  
Student limit: By arrangement (approval from Dr. David O'Dell)  
Semester hours: 4  
Prerequisite: 705 (Internal Medicine Clerkship)

Clerkships in universities or teaching hospitals elsewhere sponsored by a member of the Department of Internal Medicine and in which the instructor directing the elective is not a member of our faculty. Appropriate off-campus electives are those providing opportunities in areas in which we have no comparable programs or in which the university cannot accommodate the number of students desiring the course. An off-campus elective application must be submitted for this experience. (See off-campus elective procedures.)

You must notify Sandy Hruska, room 5502 UMA, 559-9386. She also needs a copy of the completed application.

### 761 Off-Campus Neurology Elective

Periods offered: Each 4 weeks  
Student limit: By arrangement through the Neurology Office  
Semester hours: 4

Arrangements must be made by the student and approved through the Internal Medicine Education Office at least two months in advance of elective date.

**762 Internal Medicine Preceptorship**

Periods offered: Each 4 weeks  
 Student limit: By arrangement (approval from Dr. David O'Dell)  
 Semester hours: 4  
 Prerequisite: 705 (Internal Medicine Clerkship)

You must notify Sandy Hruska, room 5502 UMA, 559-9386. She also needs a copy of the completed application.

**764 Off-Campus Dermatology Clerkship** (United States and/or Europe)

Periods offered: Each 4 weeks (more than one period may be arranged)  
 Student limit: By arrangement  
 Semester hours: 4

You must notify Sandy Hruska, room 5502 UMA, 559-9386. She also needs a copy of the completed application.

**766 General Medicine Subinternship, Staff — OVAMC**

Periods offered: Each 4 weeks  
 Student limit: 2  
 Semester hours: 4

This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 4-8 General Medicine patients. The student will admit, evaluate, manage, and discharge typical medicine patients, all supervised directly by a senior medical resident and an attending physician. Admissions to the subintern will be limited and the student will be expected to take 3-4 nights of inhouse call during the month.

**771 Junior Residency in Adult Neurology**

Prerequisite: One year of Medicine internship in an approved program.

The first year of the residency program is spent in the inpatient and outpatient adult neurology services. Teaching emphasis is placed on the neurological history and examination, differential diagnosis, and familiarity with laboratory procedures and treatment and management regimes. The resident is exposed to patients with a diversity of neurological diseases, assumes responsibility for patient care and is closely supervised. First year rotations consist of rotations at each of the participating hospitals: The University of Nebraska Hospital, St. Joseph Hospital and Veterans Administration Hospital.

**772 Internal Medicine Core Residency, Staff****774 Internal Medicine Fellowship, Staff****775 Intermediate Residency in Adult Neurology**

1. *Pediatric Neurology* — (three months, Childrens Hospital, University of Nebraska Hospital and St. Joseph Hospital) The goals and objectives of this rotation are to familiarize the adult neurology resident with developmental neurology in relationship to the neurologic examination, neuropathology, and clinical implications of the child from conception to the adult and to broaden the trainee's understanding of pathology that might exist in the adult patient as a result of neurologic problems during the developmental period.

2. *EMG* — (University of Nebraska Hospital and St. Joseph Hospital) In the two-month exposure to clinical electrodiagnostic techniques both didactic and practical experience are scheduled. The former includes the review of electrophysiology of nerve impulse, review of clinical physiology of neuromuscular transmission and the known clinical alterations at this point of nerve transmission, review of the physiology of excitation-contraction coupling and various clinical conditions relating to muscle fiber problems. The resident will spend time with the electromyographer in a weekly clinic learning equipment and techniques for motor and sensory conduction studies, neuromuscular transmission assessments, EMG with needle electrodes, H-reflex, and blink reflex studies. When he/she is familiar with these techniques, he/she will be allowed to perform these studies under the supervision of the electromyographer.

3. *EEG and Evoked Potentials* — (two months, University of Nebraska, St. Joseph, and Veterans Administration Hospitals) The resident spends a two-month rotation in EEG and evoked potentials. Both laboratory and didactic experience in electronics, equipment techniques and interpretation is received. By the time the rotation is completed, the resident is expected to interpret at least basic recordings and have an approach to more difficult studies. Reading sessions are conducted daily with the attending physician. The resident will have reviewed all records prior to reading sessions. Books, references, articles, manuals, and teaching records are available for self-study.

4. *Neuroradiology* — (two months, University of Nebraska Hospital and St. Joseph Hospital) During this rotation the resident is familiarized with neuroradiologic procedures, including computerized tomography, magnetic resonance imaging, xenon blood flow studies, angiography and myelography. Instruction and experience in positron emission tomography (PET) will also be available at Creighton University. Daily reading sessions are held with the attending neuroradiologists.

5. *Supervisory Resident* — (three months — Veterans Administration Hospital) During this rotation the resident supervises a junior neurology resident and any rotating residents on the inpatient service. Experience is gained with increasing clinical responsibility for neurologic decision making. The resident is also expected to hold didactic teaching sessions for students rotating on the service.

#### 776 Chief and Associate Chief Residents in Internal Medicine

These are full-time positions with intense clinical responsibility being assumed under direct faculty supervision.

#### 777 Senior Residency in Adult Neurology

1. *Neuropathology* — (one month, University of Nebraska Hospital and St. Joseph Hospital) The resident assigned to neuropathology attends and participates in all neuropathology conferences. Microscopic neuropathology on all cases is examined by the resident and reviewed with the neuropathologist. Special study sets are used and reviewed with the resident. Gross and microscopic photographs, case abstracts, and interpretations are available for study. The study program includes an introduction to neurohistology, enzyme histochemistry, electron microscopy and experimental neurology. The assignment in neuropathology includes a review of neuroanatomy and a review of relevant general pathology. Experience and training in muscle and brain biopsy is also included.

2. *Chief Resident* — (six months — University of Nebraska and St. Joseph Hospital) During this rotation the student supervises the consult service. He/She is also responsible for scheduling various conferences and activities.

3. *Elective* — (3 months — location varies) Elective time is decided upon by the resident in conjunction with the faculty committee.

#### 790 Clinical Research Elective in Neurology

Periods offered: All semesters

Student limit: By arrangement

Semester hours: Total hours are by individual arrangement

\*You must contact the section of Neurology for faculty approval.

This elective offers students an opportunity to work with faculty members in clinical investigations of neurological diseases and to participate in ongoing research projects. Definitions of problems and programs of learning to be decided upon discussion with faculty.

#### 799 Research in Medicine, Armitage and Staff — UNMC

Periods offered: Each 4 or 8 weeks

Student limit: By arrangement

Semester hours: 4

An off-campus elective application must be submitted for this experience. (See off-campus elective procedures.)

#### Basic Science Selectives (See INTERDEPARTMENTAL section for course information)

##### M-ID 730A Diabetes

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## OBSTETRICS-GYNECOLOGY

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**PROFESSORS** Scott, Jr., M.L. Smith (Chairperson), Ryan, C. Smith; **ASSOCIATE PROFESSORS** Roy, De Jonge; **ASSISTANT PROFESSORS** Berg, Fischer, Livezey, McIntosh, Maclin, Ramey, Severson, Utrie; **SENIOR CONSULTANTS** Boelter, Field, Hansen, Kovar, McCarthy, McGinnis, Olson, Rumbolz, Yost; **VOLUNTEER FACULTY** Adam, Bassett, Beavers, Bohi, Buckley, Bussinger, Byington, Clemmer, Crabb, Davis, Dawson, DeVries, Dietrich, Dilley, Dolnicek, Elston, Faaborg, Fleming, Foote, Gibbens, Gorthey, Gray, Green, Harvey, G. Heidrick, W. Heidrick, Hennesy, Engdahl-Hoffman, Holdt, J.B. Itkin, Jernstrom, Jones, Kable III, Keasling, Knolla, Kolbeck, LaBenz, Legino, Levine, Lewis, Luby, Magid, Maly, Marlowe, Marsh, Marshall, Martin, Milius, Nabity, Ober, Okereke, Olesh, Orr, Reilly, Robertson, Roffman, Rogers, Schack, J.H. Schulte, R.L. Schulte, Siemers, Sjulín, Stohs, Sundell, Taylor, Treacy, Vrbicky, Waechter, Wax, Weidner, Westcott, M. Woods, R. Woods.

# OBSTETRICS-GYNECOLOGY

## Obstetrics-Gynecology — OBGY

### 642 Introduction to Clinical Gynecologic Endocrinology

Prerequisite: M-ID 560 Cellular and Developmental Processes Core

An introductory clinical course which is directed at correlating the biochemical basis to disease with endocrine aspects of OB-GYN practice. The student will be required to complete a programmed text which will be provided to him in gynecologic endocrinology and will attend the endocrine clinic and conferences at UNH.

### 701 Obstetrics and Gynecology: Introduction to the Profession, C. Smith

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Where to report: OB-GYN offices

The purpose of this course will allow fourth year students to become better acquainted with career opportunities in obstetrics and gynecology. The student will be expected to attend and observe the office practices of twelve clinical faculty obstetricians-gynecologists in the Omaha-Lincoln areas, participate in one or more ongoing research projects of mutual interest with the faculty member, and faithfully attend resident teaching conferences.

Students will be expected to have their clinical preceptor to fill out an evaluation form of their attendance at their half-day private clinic, have documentation of regularly attending resident conferences, and satisfy the faculty member overseeing. Students are aware that their participation in the research project does not necessarily guarantee the publication of this work but would allow a greater understanding into areas of research.

### 705 Junior Clinical Clerkship, Staff

Periods offered: Each 6 weeks

Student limit: 20

Semester hours: 6

Junior-year students are assigned to the University Hospital and affiliated hospitals for inpatient experience and to the University Hospital Clinics for outpatient obstetric and gynecologic clinics. They will follow the progress of patients in labor, assist at operative procedures, and maintain a complete record until the patient is discharged from the hospital. Outpatient experience will include participation in the following clinics: normal and complicated obstetric, gynecologic, and family planning. Seminars, conferences, and ward rounds are scheduled regularly.

### 710 Advanced Obstetrics and Gynecology, Staff

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Obstetric, gynecologic, and specialty clinic experience including family planning. Daily seminars with the faculty to discuss special problem areas in obstetrics and gynecology.

### 720 Advanced Inpatient Obstetrics, Carl Smith

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

### 722 Advanced Inpatient Gynecology, Staff

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Assignment is made to gynecology, infertility, reproductive endocrinology or gynecologic oncology

### 724 Obstetrics and Gynecology Tutorial, Individual Physicians

Periods offered: Each 4 weeks

Student limit: 1 per faculty member

Semester hours: 4

Individual students work in a one-to-one relationship with the staff at the University Hospital, or with a volunteer faculty member at an affiliated hospital. By approval only.

### 760 Obstetrics and Gynecology Off-Campus Elective, Staff

Periods offered: Each 4 or 8 weeks

Student limit: By arrangement

Semester hours: 4

Clerkship in University or teaching hospitals elsewhere. By individual approval only.



## 772 Core Residency, Staff

Prerequisite: Degree of M.D. or D.O. from an accredited U.S. Medical School.  
Foreign medical graduates are required to have an E.C.F.M.G. Certificate.  
This is a four-year program. The resident rotates between clinical obstetric services including inpatient and outpatient, and gynecologic services including inpatient and outpatient. These services are in the University Hospital or one of its affiliated hospitals. An additional rotation is a period of time devoted to pathology, endocrinology, internal medicine, anesthesia, family medicine/primary care, and neonatology. Attendance at the weekly resident seminars is mandatory.

## 774 Chief Residency

The chief resident has a clinical experience of eight months on inpatient and outpatient gynecology and four months on inpatient and outpatient obstetrics (included in the 4-year Ob/Gyn residency). Following completion of the core residency and the chief residency, the requirements of the American Board of Obstetrics and Gynecology are fulfilled. All residents participate in staff conferences, journal club, pathology conference, radiology seminars, and grand rounds.

## 797 Research, Family Planning, Severson

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4

Problems of family planning, including clinical experience in a variety of settings.

## 798 Research, Obstetrics, Staff

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4

Problems of pregnancy and the perinatal period in relation to maternal health care programs.

## 799 Research, Gynecologic Oncology, Staff

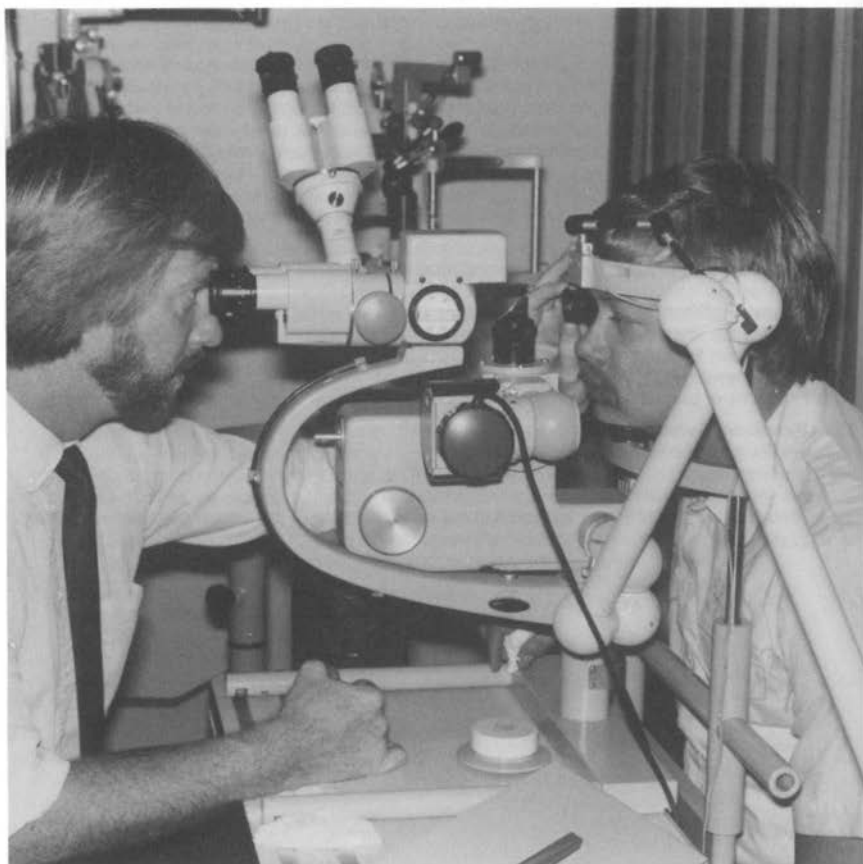
Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4

Problems of diagnosis and treatment of malignant disease of the female reproductive system.

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## OPHTHALMOLOGY

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**PROFESSORS** Camras, Yablonski (Chairperson); **ASSISTANT PROFESSORS** Chacko, Hejkal; **CLINICAL PROFESSORS** Filkins, Truhlsen; **CLINICAL ASSOCIATE PROFESSORS** Anis, Christensen, Griffiths, Latta, Meissner; **CLINICAL ASSISTANT PROFESSORS** Donald Arkfeld, Bares, Crawford, Crossman, Dinsdale, Faier, Geiger, Madson, Martin, Mausolf, McIntosh, Popp, Priluck, Ramsell, Schlichtemeier, G. Sutton, R. Troia, S. Troia, Van Newkirk; **CLINICAL INSTRUCTORS** D. Francis Arkfeld, Brumm, Diedrichsen, Drake, Emig, Fante, Favero, Goldstein, Halsted, Haskins, Hottman, S. Meyers, Parson, J. Peters, V. Sutton, J. Tanner, C. Troia, Welch, Whitted, L. Wood; **SENIOR CONSULTANTS** Eagle, L. Meyer, W. Morrison; **PROFESSOR EMERITUS** Gifford, Records; **COURTESY PROFESSOR:** Ahmad, Iqbal, Lou, Marjorie, Ohia, Sunny

## Ophthalmology — OPHT

**602 Principles of Clinical Ophthalmology**

The many disciplines which make up the broad field of clinical ophthalmology are presented in a concise and encapsulated manner. These include elementary geometric optics, physiologic optics, external disease, disease processes peculiar to the visual system, and the ophthalmic manifestations of systemic disease. The goal of this course is to give the student a firm foundation of basic ophthalmic knowledge which will aid in differentiating normal variation from true disease processes. Such basic knowledge and diagnostic skills will complement and enhance the individual's diagnostic and therapeutic efforts in any area of clinical medicine.

**720 Clinical Ophthalmology, Yablonski (UNH/OVAH)**

Periods offered: Each 4 weeks (8 weeks by arrangement with Chairman)  
 Student limit: 2 Seniors  
 Semester hours: 4

The elective in Clinical Ophthalmology will include experience in all areas of general ophthalmological diagnosis and therapy. Within this wide field the following areas will receive particular emphasis: 1) Ophthalmic history taking and its correlation to the general medical history; 2) Functional evaluation of the visual system including determination of near and distance, visual acuity, the size and shape of the visual field, color vision, stereopsis, and other testing procedures designed to detect dysfunction of any components of the visual system; 3) Direct examination of the visual system including both applanation and indentation tonometry, the use of the slit-lamp, direct and indirect ophthalmoscopy; and 4) Observation and participation in ocular surgical procedures. The goal of this program is to lay a firm foundation of basic knowledge and diagnostic skill which will aid the non-ophthalmologist in evaluating disease processes of the eye adnexa and visual pathways. Such knowledge will make for more rational and complete patient care as well as understanding the problems of the patients who have ophthalmic disease or ophthalmic manifestations of systemic disease processes.

**760 Off-Campus Elective**

Periods offered: Each 4 weeks  
 Student limit: By arrangement with department Chairman  
 Semester hours: 4

Clerkships in teaching hospitals elsewhere. By individual approval only.

**Residency Program in Ophthalmology**

The residency training program in ophthalmology is 36 months in duration. It is fully accredited by the Accreditation Council for Graduate Medical Education and fulfills the formal training requirement for certification by the American Board of Ophthalmology. Two appointments are made effective July 1st of each year. Residents are selected through the ophthalmology match program. Applications are due November 1, 1995, for positions starting July 1, 1997.

**Facilities:** Two hospitals in the Omaha area are utilized for resident activities.

1. The University of Nebraska Medical Center Hospital functions as the primary teaching facility of this program.
2. The Omaha Veterans Administration Medical Center is an important source of both medical and surgical cases for resident training.

The University of Nebraska Medical Center's Ophthalmology Clinic furnishes outpatient care to a wide range of patients. The Omaha Veterans Administration Medical Center maintains an extremely active ophthalmology service for outpatient, inpatient, and surgical care. A large volume of patients are seen at this hospital yearly and an unusually high percentage of them undergo major ophthalmic surgical procedures.

The clinical and surgical facilities of both the University of Nebraska Medical Center and the Veterans Administration Medical Center are fully equipped with state-of-the-art diagnostic and surgical instruments.

**THE TRAINING PROGRAM**

**First Year:** Each new resident is given an orientation to the clinic and to techniques for full ophthalmology exam, including refraction. Initially, all patients are seen under direct supervision of the attending physician or senior resident. As the resident develops his or her clinical skills, he/she will be expected to become increasingly independent in evaluation and management of the patients that they see. During the first year the residents rotate with the different attending physicians in the ophthalmology clinic at UNMC. The first year residents have the opportunity

to perform minor procedures and selected ophthalmic laser procedures in the main clinic. The first call is shared with the second year residents starting the second month of training on a rotating basis approximately every fourth week. While on call, the resident is responsible for evaluating any emergency or in-patient consults and will manage those patients under the supervision of the senior resident and the attending physician.

Didactic training consists of a lecture series covering all aspects of ophthalmology presented three hours per week by various full-time and part-time faculty. Additionally, fluorescein and visual field conferences are scheduled weekly and basic science and clinical journal review conferences are also scheduled weekly.

**Second Year:** During the second year, each resident spends six months of training at the VA medical center and the other six months on sub-specialty rotation which are arranged individually in consultation with the program director and attending faculty. Rotations during the second year include: glaucoma, retina, ocular plastics, pediatrics and strabismus, cornea, as well as exposure to neuro-ophthalmology and refractive surgery. During the second year the resident assists in ophthalmic surgical procedures at the VA Hospital and during the sub-specialty subspecialty rotations. It is expected that the resident will develop surgical skills during this year and will continue to improve skills in diagnosis and management of ophthalmic problems. The second year residents continue to participate in the didactic training schedule. The second year residents take first call approximately every fourth week on a rotating basis with the first year residents.

**Third Year:** Six months of the senior year in the ophthalmology residency program is spent as Chief Resident at the University Hospital, and six months as Chief Resident at the Omaha Veterans Administration Hospital. At the University Hospital, the Chief Resident is directly responsible for supervision of junior residents in the clinics, and in the care of inpatients on the ophthalmology service. The senior resident performs most of the major ophthalmic surgical procedures at the University and Veterans Administration Hospitals. Recently, residents have averaged 200 - 300 surgical procedures during the course of their residency. The senior residents share second call on a rotating basis. They also participate in teaching of medical students and junior residents. The Chief Resident is also responsible for answering all requests for consultations from other services at all major teaching hospitals. During the course of three years of residency a total of 200 to 300 major surgical procedures will be performed. The Chief Resident is also responsible for answering all requests for consultations from other services at all major teaching hospitals. During the course of three years of residency a total of 200 to 300 major surgical procedures will be performed.

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## ORTHOPAEDIC SURGERY AND REHABILITATION

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**PROFESSOR** Neff (Chairperson); Huurman; **ASSOCIATE PROFESSORS** Garvin, Ferlic, Jardon; **ASSISTANT PROFESSORS** Brown, Esposito, Mendlick; **INSTRUCTOR:** Patricia A. McDougall; **CLINICAL ASSOCIATE PROFESSORS** Bach, DeShazer, Dinsmore, Hamsa, McGuire, Pitner, Scott-Miller; **CLINICAL ASSISTANT PROFESSORS** Bush, Cochran, W.F. Garvin, Kettleison, McCarthy, O'Neil, Ray; **CLINICAL INSTRUCTORS** Albers, Bainbridge, Bence, Bowman, Carter, Chingren, Crosby, Ellis, Fitzgibbons, Gross, Kelly, Kratochvil, Lewallen, Longley, Miller, O'Malley, Peck, Phillips, Schwab, W.W. Smith, J. J. Tiedeman, Waters, Woodward, Yeakley; **ADJUNCT PROFESSOR**, Nelson, Draenert; **ADJUNCT ASSOCIATE PROFESSOR** Stinson; **ADJUNCT ASSISTANT PROFESSORS** Chakkalakal; **ADJUNCT INSTRUCTORS** Grandjean, Rosenberger; **SENIOR CONSULTANT** Hood, R.D. Smith

## ORTHOPAEDIC SURGERY AND REHABILITATION

### CREIGHTON-NEBRASKA HEALTH FOUNDATION ORTHOPAEDIC SURGERY SERVICES

Hospital, University of Nebraska, Chief, J.R. Neff

Section of Fractures and Adult Reconstructive Surgery, Director: Kevin L. Garvin, O. Max Jardon, James R. Neff, R. Michael Mendlick

Section of Childrens Orthopaedics, Director, Walter W. Huurman, Paul W. Esposito, Patricia A. Mc Dougall

Section of Hand Surgery, Director, Thomas P. Ferlic, Jeffrey J. Tiedeman

Section of Sports Medicine, Director, David E. Brown, John A. McCarthy, Monty S. Mathews, T. Kevin O'Malley

Section of Musculoskeletal Oncology, Director, James R. Neff

Section of Orthopaedic Research, Director, James R. Neff

Section of Spine: Director: James R. Neff, Valerie McCann

Hospital, Veterans Administration (Omaha) Chief, O. Max Jardon

Hospital, Bergan Mercy, Chief, Timothy Fitzgibbons

Hospital, Childrens Memorial Hospital, Chief, Walter W. Huurman

Hospital, AMI/Saint Joseph's Hospital, Chief, Michael H. McGuire

Hospital, Veterans Administration (Lincoln), Chief, Jackson J. Bence

#### Orthopaedic Surgery — ORTH

Orthopaedic surgery deals with the diseases, deformities and injuries of the structures composing the musculoskeletal system.

#### 722 Orthopaedic Wards and Clinic Elective, Neff, Jardon, Garvin and Mendlick

Periods offered: Each 4 weeks

Student limit: 12

Semester hours: 4

Prerequisite: General Surgery Clerkship

Where to report: 6:30 a.m., Monday Hospital Auditorium

This elective is intended as an introduction to clinical orthopaedics which will allow the student to appreciate the scope of orthopaedic surgery and rehabilitation, as well as some of the problems that commonly are associated with musculoskeletal injuries and diseases. The clinical clerk is expected to participate actively in the workup and care of both inpatients and outpatients. Objectives of this course are outlined and emphasized at the beginning of the elective and the student's attainment of these objectives is demonstrated by oral and written examination at the end of the rotation.

#### 723 Pediatric Orthopaedic Service, Huurman, Esposito and McDougall

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Prerequisite: None

Where to report: 6:30 a.m., Monday Hospital Auditorium

The purpose of this course is to introduce the interested student to the intricacies and problems associated with care of the child with musculoskeletal problems. Pediatric Orthopaedic Surgery has become a unique subspecialty of orthopaedics, and thus those students interested in further study of the care of children and/or orthopaedics will find this rotation most beneficial. This is an in-depth evaluation of the examination of the child and the problems unique to children and therefore will not be of general interest to each and every senior student.

#### 724 Orthopaedic Sports Medicine, David E. Brown

Periods offered: Every month except July

Student limit: Must be approved with program coordinator

Semester hours: 4

Prerequisite: Orthopaedic Wards and Clinic Elective (722)

The purpose of this rotation is to provide the student with the opportunity to learn evaluation, management, and rehabilitative skills for musculoskeletal sports injuries and related medical problems. The rotation includes experiences in the Sports Medicine Clinics, the Sports Rehabilitation Center, the operation room, and the athletic training room at the University of Nebraska at Omaha, as well as sideline medical coverage for sporting events. The Sports Medicine Program staff includes orthopaedic surgeons and family physicians specializing in sports medicine, sports physical therapists, and certified athletic trainers.

## 762 Off-Campus Orthopaedic Surgery Elective

- Periods offered: Each 4 weeks  
Student limit: By arrangement  
Semester hours: 4  
Prerequisite: Orthopaedic Ward and Clinic Elective (722)

Orthopaedic clerkships in University-affiliated teaching hospitals or approved private orthopaedic offices elsewhere may be elected. The objectives of this elective are outlined and emphasized by the UNMC Department of Orthopaedic Surgery and Rehabilitation at the beginning of the elective. The student's attainment of these objectives must be demonstrated by an oral and written examination at the end of the rotation, to be taken at the University Medical Center.

## 772 Orthopaedic Surgery Residency

The Creighton-Nebraska Foundation program in orthopaedic surgery is based on a graduated responsibility for the resident assigned to a variety of clinical services. Concurrent exposure to basic science lectures and seminars is also emphasized for a thorough understanding of clinical problems. Independent investigations of clinical and related basic science questions comprise the third essential component of the training program which allows the resident to mature into a competent and critically thinking orthopaedic surgeon.

The present five-year residency rotation has been in existence with slight modifications since 1979. In 1985, the Nebraska and Creighton programs were joined under one administrative head in order to provide one comprehensive training program for the state. The combined program accepts four applicants from the graduating medical school classes through the National Residency Matching Program. One of these four may plan to spend one year engaged in several of the many departmental research programs. This unique opportunity allows the individual to gain research skills and continue to use these skills while advancing clinically.

The Department of Orthopaedics uses the facilities of the University Hospital, AMI/St. Joseph's Hospital, the Omaha and Lincoln Veterans Administration Hospitals, Childrens, Methodist, and Bergan Mercy Hospitals. During these years, the resident is given an opportunity to progressively increase responsibility to administer and direct both the general orthopaedic services at these hospitals and the specialty services such as Sports Medicine, Hand Surgery, Children's, Spine, and Trauma Orthopaedics. This allows exposure to the full gamut of orthopaedic medical, surgical, and rehabilitative problems.

The residents are encouraged to begin an independent research program in either the clinical or basic science area. Laboratory facilities, as well as help and support from the full-time faculty, are always available. In addition, teaching seminars are scheduled on a regular basis throughout the year. These include conferences in pathology, biochemistry and physiology of bone, anatomy, biomechanics and biomaterials, particularly as they are related to orthopaedics.

## 799 Research in Orthopaedic Surgery

- Periods offered: Each 8 weeks  
Student limit: 2  
Semester hours: 8

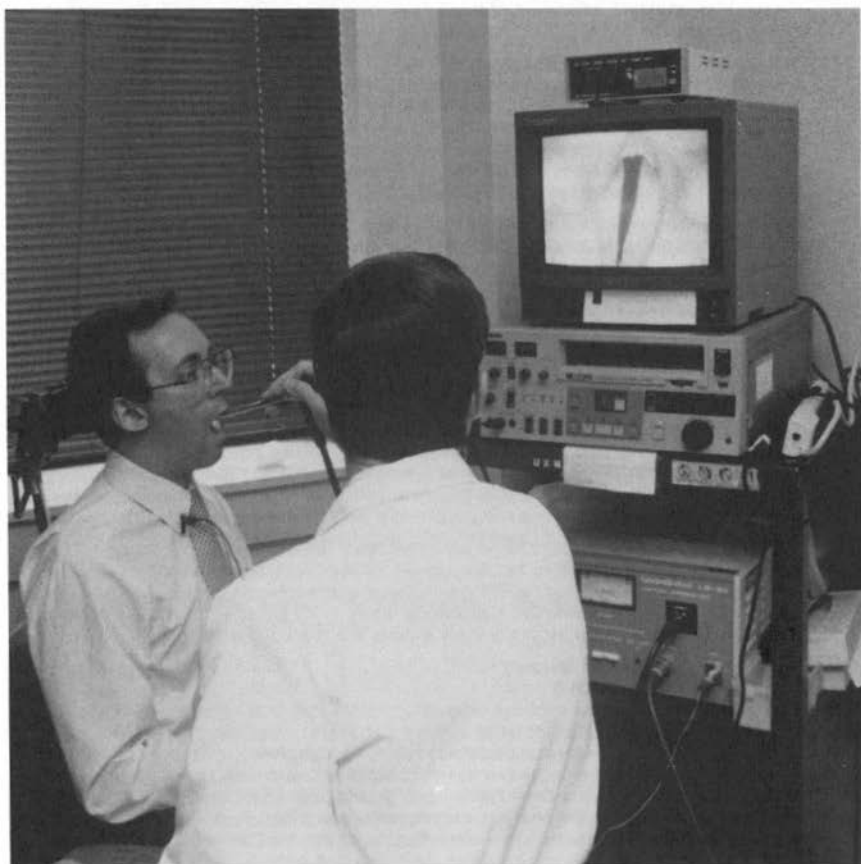
The objective of this elective is to allow selected students an opportunity for concentrated periods of research in musculoskeletal problems. The student will work with faculty in areas of their research interests which include electrical bone growth stimulation, fracture healing, arthritis, malignant hyperthermia, epiphyseal injuries and microvascular surgery. Both clinical and research opportunities are available as well as well equipped laboratory facilities and technical assistance. Some clinical experience may also be gained during this time, particularly if applied to the research project.

The student will be required to complete the research project and present results at the department's monthly Grand Rounds. Grades will be based on a research effort, as well as the presentation of results.

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## OTOLARYNGOLOGY

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**PROFESSORS** Yonkers (Chairperson); **ASSOCIATE PROFESSORS** G.F. Moore (Vice Chairperson), Lydiatt, Ogren; **ASSISTANT PROFESSORS** Huerter, Jr., Mahanna; **INSTRUCTOR** Daly; **CLINICAL PROFESSOR** Cyr, Norris, R. Townley; **CLINICAL ASSOCIATE PROFESSORS** A. Bewtra, Ferrell, Trotsky; **CLINICAL ASSISTANT PROFESSORS** Beck, Coonce, Denenberg, Eakins, Falcone, Foote, Goble, B. Heywood, R. Hopp, Jones, Liudahl, Massey, Nabity, Quinlan, Rapp, Syre, Zieno; **CLINICAL INSTRUCTORS** Adkins, Crawford, Emanuel, L. Heywood, I.J. Moore, Novotny, Sherrerd, Stemm, Tegt.



## Otolaryngology — Head and Neck Surgery — OTOL

### 720 Otolaryngology — Head and Neck Surgery Clerkship, Yonkers et al.

Periods offered: Each 4 weeks  
 Student limit: 6 (4 at UNMC, 2 at VA Hospital)  
 Semester hours: 4

The student is involved closely with all facets of otorhinolaryngology, gaining a view of the scope of this field. Evaluation of patients, diagnostic considerations and management approaches are emphasized. The student will participate in all the activities of the department, including clinical responsibilities, operations and formal teaching exercises.

### 760 Off-Campus Elective

Periods offered: By arrangement  
 Student limit: By arrangement  
 Semester hours: 4

Clerkships at the Veterans Administration Hospital in Omaha or with some of the private practitioners in the Omaha-Lincoln area. By individual approval only.

### 772 Core Residency in Otolaryngology — Head and Neck Surgery

This five-year program requires one year of approved surgical residency and four years of otolaryngology residency and graduation from an approved medical school. This is the standard residency program which prepares the resident for examination by the American Board of Otorhinolaryngology. This program is described in the department literature on residency training.

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## PATHOLOGY AND MICROBIOLOGY

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**PROFESSORS** Aschenbrener, Carson, Chan, Cohen (Chairperson), Colcher, Dubes, Gendelman, Johansson, Linder, Markin, McDonald, Newland, Rhode, Rizzino, Seemayer, Stevenson, Sumegi, Talmadge, Weisenburger, Warkentin; **ASSOCIATE PROFESSORS** Bridge, Haven, Hinrichs, Johnson, Jones, Larsen, McComb, Muellenberg, Pirruccello, Radio, Tracy, Weber, West; **ASSISTANT PROFESSORS** Alter, Bills, Booth, Brichacek, Chapman, Fell, Fidler, Freeman, Greiner, Gross, Haggerty, Jackson, Kenny-Moynihan, Landmark, Mann, Rubocki, Smith, Tetrault, Traystman, Uzvolgyi, Wisecarver; **INSTRUCTORS** Arnold, Iwen, Kuszynski, Wang; **ASSISTANT INSTRUCTOR** Storrs; **POST-DOCTORAL RESEARCH ASSOCIATES** Gilchrist, Ghorpade, Ino, Kawatsu, Mody, Mills, Nottet, Orten, Ogawa, Persidsky, Strawhecker, Wang; **PROFESSORS — COURTESY** Buehler, Coccia, Kessinger, O'Dell, Patil, Phares, Paul, Pour, Ramaley, Rennard, Sanger; **ASSOCIATE PROFESSORS — COURTESY** Bashir, Chen, Christensen, Hollingsworth, Pelling, Sprague, Stratbucker; **ASSISTANT PROFESSOR — COURTESY** Godfrey, Patton, Rao, Romero, Rupp, Wu; **CLINICAL PROFESSORS**

Casey, Ellwein, McManus, Schenken, Skoog, Smith; **CLINICAL ASSOCIATE PROFESSORS** Beisel, Greene, Harrington, Luka, Massey, Roffman; **CLINICAL ASSISTANT PROFESSORS** Auchmoedy, Boon, Bowen, Duggan, Dynek, England, Gammell, Grier, Hapke, Hartman, Hayes, Herbek, Johnson, Koerber, Kruger, Kutsch, Lohff, Markus, Masada, Morris, Nielsen, Olson, Padgett, Perry, Rasmussen, Roccaforte, Ruma, Runge, Scott, Shapiro, Smith, Sohn, Stastny, Synovec, Till, Toalson, Williams; **CLINICAL INSTRUCTOR** Luebbert, Reddy

## Pathology and Microbiology — PAMM

### 692 **Advanced Topics in Microbiology** (cr arr) by permission (992G) Staff

This course constitutes advanced study (research other than thesis) in one of the several disciplines of medical microbiology such as bacteriology, immunology, mycology, virology, parasitology, electron microscopy, tissue culture, etc.

**NOTE:** Medical students who wish to take a Basic Science Elective clerkship experience in Medical Microbiology may register, after appropriate departmental consultation, in this course.

### 702 **Forensic Pathology**, Dr. J. Jones

Prerequisite: Sophomore year of medical curriculum.

Forensic Pathology essentially addresses all aspects of legal medicine with special emphasis on the role of the pathologist.

### 720 **Pathologic Anatomy**

Periods offered: Every 4 weeks

Student limit: By arrangement

Semester hours: 4

Prerequisite: Sophomore year of medical curriculum.

The Department provides students the opportunity to pursue, in depth, the pathologic anatomy. Includes exposure of disease, utilizing a variety of techniques and emphasizing structural abnormalities. This course introduces Surgical Pathology (Dr. T. Seemayer), Autopsy Pathology (Dr. T. Seemayer), and Neuropathology (Dr. McComb). Students are assigned to individual house/attending staff members by arrangement. This period may be integrated in part with Clinical Pathology 722 by arrangement.

### 722 **Clinical Pathology and Laboratory Medicine**

Periods offered: Every 4 weeks

Student limit: Three students per period.

Semester hours: 4

Prerequisites: Sophomore year of medical curriculum.

This elective provides the student with direct experience in the diagnostic laboratory. Students are directed through the following clinical laboratory disciplines on a weekly rotation schedule: Clinical chemistry, hematopathology, microbiology/virology, and blood banking. The student learns sample requirements for standard laboratory tests in each of the major laboratory disciplines. The student learns how to order tests to most effectively use the laboratory. The student should know the time required to perform standard laboratory tests. Correlation of abnormal lab results with clinical disease is emphasized. Proper use and risks of blood components are presented.

### 760 **Off-Campus Elective**

Periods offered: Every 4 weeks

Student limit: By arrangement

Semester hours: 4

Prerequisites: Sophomore year of medical curriculum.

Approved clerkships in University or teaching hospitals elsewhere may be individually arranged. Approval by the Chairman of the Department of Pathology and Microbiology and other concerned parties is mandatory.

### 774 **Pathology and Laboratory Medicine Residency**

Prerequisites: M.D. degree, acceptance into the program.

This is a full-time, five year program in Pathologic Anatomy and in Clinical Pathology. It is designed to fulfill the requirements of the American Board of Pathology. Certification in Pathology consists of rotating periods in Anatomic and Clinical Pathology, such as Hematology, Immunohematology, Microbiology, Clinical Chemistry, Surgical Pathology, and Cytology. If the individual so desires, and it is acceptable to the Director, twelve months of this four-year residency may be spent in research or other special training in immunopathology, neuropathology, nephropathology, experimental carcinogenesis, etc.

## **PATHOLOGY AND MICROBIOLOGY**

### **799 Special Problems and Research (4 weeks)**

Prerequisites: Sophomore year of medical curriculum

The student interested in investigative and/or special problems in Pathology is encouraged to discuss available opportunities with appropriate faculty. Major investigations are ongoing in Oncology, Virology, Immunology, Computers, Genetics, Tissue Culture, Diabetes, Cardiovascular Chemistry and Molecular Biology.

### **Basic Science Selectives (See INTERDEPARTMENTAL section for course information)**

- M-ID 720A Of Molecules and Mankind: The Role of the Clinical Laboratory in Patient Care**
- M-ID 720B Of Molecules and Mankind: The Role of the Clinical Laboratory in Patient Care**
- M-ID 721C Principles of Transfusion and Transplantation**
- M-ID 721D Principles of Transfusion and Transplantation**
- M-ID 722A Research in Pathology**
- M-ID 722B Research in Pathology**
- M-ID 723A Research Paper/Patient Evaluation**
- M-ID 723B Research Paper/Patient Evaluation**
- M-ID 724A Hemostasis/Thrombosis**
- M-ID 724B Hemostasis/Thrombosis**

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## PEDIATRICS

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**PROFESSORS** Angle, Buehler (Interim Chair-person), Coccia, Kugler, Maurer, Sanger, Vanderhoof, Wiltse; **ASSOCIATE PROFESSORS** Abromowitch, Allen, Antonson, Chartrand, Cheatham, Colombo, Danford, Evans, Godfrey, Gumbiner, Harrison, Houser, Huseman, Larsen, Leibowitz, Leuschen, McCurdy, Peck, Schaefer, Walburn, Warzak, Willett; **ASSISTANT PROFESSORS** Bolam, Fletcher, Goodrich, Gordan, Hanna, Harper, Hassing, Judy, Kaufman, Kuhn, Laikko, Lovell, Lowitzer, Mack, Martin, McAllister, McClain, Nasir, A. Olney, F. Olney, Patton, Pergam, Rao, Romero, Sammut, Tomek, Tonniges, Zach; **INSTRUCTORS** Shearer, Sullivan, VanRiper; **CLINICAL PROFESSORS** Hofschire, Rath, Schreiner; **CLINICAL ASSOCIATE PROFESSORS** Bosley, Ellison, Friman, Glow, Gnarra, Look, Schor, Shaffer, Wax, Wright; **CLINICAL ASSISTANT PROFESSORS** Bausch, Bever, Bleicher, Bowen, Bruneteau, Calvert, Carnazzo, Corley, Domet, Douglas, Erickson, Esslinger, Fischer, Fitzmaurice, Flearl, Fletcher, Fuss, Gasseling, Gorga, Guest, Higgins, Hopp, Horton, Howe, Ing, Itkin, Jirka, Joekel,

## PEDIATRICS

Jones, Kader, Kimberling, Kobayashi, Kronberg, Lerner, Loskutoff, MacDonald, Madison, Marsh, Marshall, Meyer, Mikuls, Milazzo, Moore, MOran, K. Murphy, R. Murphy, Needelman, J. Nelson, P. Nelson, Nielsen, Patney, Penn, Perry II, Scheffel, Schiffbauer, Schmidt, Seidel, Severson, Shaffer, Sheffield, Shepherd, Shriner, Smith, Steenson, Stephenson, Straley, Sykes, Tarsney, Tompkins, Uzendoski, Vautravers, Vogelsberg, Williams, Wilson, Wineman; **CLINICAL INSTRUCTORS** Daly, Dunham, Ford, Parys; **SENIOR CONSULTANTS** Bean, Ebers, Grant, Klok, McIntire, Oberst, Perry, Wallace; **EMERITUS** Pearson, Thomas, Turner

### Pediatrics — PEDS

#### 707 Required Primary Clerkship in Pediatrics (Third Year), Staff

Periods offered: Each 6 weeks  
Student limit: 20  
Semester hours: 6  
Where to report: TBA

The Primary experience in pediatrics is based upon the principle that learning is an active process which can only be accomplished by the student. The experience is split between the third and fourth years with six (6) weeks in the third year and four (4) weeks in the fourth year. The emphasis in the third year is on acquisition of knowledge and skills in the medical care of children. Thus, the goals for the third year experience are to: 1) obtain an adequate fund of Pediatric knowledge; 2) become more practiced in problem-solving skills; 3) practice, improve, and refine history and physical examination skills; 4) become more aware of the central importance of the family unit during health and illness; 5) improve self-directed learning and critical thinking skills; and 6) study and practice techniques which allow one to become a better manager of personal as well as medical resources. Students will spend 3 weeks working on the pediatric inpatient service and the general pediatric clinic while the other 3 weeks will be spent working in a variety of ambulatory experiences (general pediatric clinic, sub-specialty clinics, private physician's offices, public health clinics, or Meyer Rehabilitation Institute).

#### 708 Required Primary Clerkship in Pediatrics (Fourth Year), Staff

Periods offered: Each 4 weeks  
Student limit: 14  
Semester hours: 4  
Prerequisite: Third Year Pediatrics

The student will spend four weeks working on the inpatient service at Children's Hospital or in a private physician's office in rural Nebraska where the major emphasis is on continuous care and "bedside" teaching. The goals remain the same as the third year experience with the one caveat that the students, with their year's worth of experience, will be expected to perform in a manner that demonstrates more independent decision making capabilities. The major teaching focus in the fourth year will be on enhancing already acquired skills and further consolidation of the students knowledge of Pediatrics while at the same time focusing a good deal of attention on acquiring attitudes appropriate to the medical care of infants, children, and adolescents.

#### 722 Pediatric Cardiology and Cardiovascular Disease, Kugler, Cheatham, Gumbiner, Danford

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4  
Where to report: Dr. Kugler's Office, UH 5157

This elective is intended for students desiring to further their knowledge of congenital heart disease. It should be especially useful for those who will practice pediatrics, general practice, thoracic surgery or internal medicine.

#### 726 Pediatric Hematology Oncology and Bone Marrow Transplantation, Coccia, Bayerer, Bever, Gnarra, Gordon, Patton, Warkentin

Periods offered: Each 4 weeks  
Student limit: 2  
Semester hours: 4  
Where to report: Dr. Coccia's Office, UH Room 5116

The elective in Pediatric Hematology/Oncology and Pediatric Bone Marrow Transplantation will encompass the activities of the program at both the University of Nebraska Medical Center and at Childrens Memorial Hospital. Students will usually spend Monday, Wednesday, and Friday at the University and Tuesday and Thursday at Childrens. They will see patients in clinic, participate in in-patient teaching rounds, and attend conferences at both hospitals. There will be ample opportunity to evaluate and follow new patients, see and participate in the ongoing care of patients with a variety of hematological and oncological disorders, and become involved in the activities of the Pediatric Bone Marrow Transplantation Program. Students desiring to spend additional

time can have the opportunity to participate in clinical and laboratory research or have in-depth involvement in the transplantation program.

## 727 Human Cytogenetics, Sanger and Staff

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

PERMISSION FROM DR. SANGER BEFORE REGISTRATION

Where to report: Human Genetics Office, MRI

The goal of the course is to familiarize students with laboratory techniques in Human Cytogenetics. The course will present techniques and applications of short-term and long-term tissue cultures, staining procedures, chromosome analysis and karyotype preparation.

## 728 Newborn Medicine, Bolam, Dickey, Goodrich, Willett, Zach

Periods offered: Each 4 weeks

Student limit: 4

Semester hours: 4

The student will serve as "junior house officer under the supervision of a staff neonatologist and a pediatric house officer. The student will be exposed to the critical care of sick and high risk infants. Emphasis will be placed on resuscitation of the high risk infant, recognition of signs and symptoms of neonatal illness; monitoring of physiologic parameters; calculation of fluid, electrolyte and nutrition requirements; assessment of blood gases and ventilator requirements. The student will have the opportunity to participate with staff and house staff in minor procedures. In-house call will be required every 4th - 5th night. Didactic instruction will be provided through twice daily rounds, conference and lectures. There are an average of 45 new admissions per month with an average of 24 patients per day.

## 729 Pediatric Endocrinology, Huseman

Periods offered: Each 4 weeks

Student limit: 2

BY ARRANGEMENT, MAY ALSO BE TAKEN WITH DR. KEVIN CORLEY AT CHILDRENS HOSPITAL.

Semester hours: 4

Where to report: Dr. Huseman's Office, SC, Room 4053

This elective provides the student with experience in diagnostic problems of growth, pubertal development, thyroid dysfunction, and adrenal disorders in both inpatient and outpatient settings. Further experiences can be gained in insulin dependent diabetes mellitus and disturbances of carbohydrate metabolism. The student will be responsible for the daily care of inpatients, endocrine consultations.

## 730 Pediatric Gastroenterology, Vanderhoof, Antonson, Kaufman, Mack

Periods offered: Each 4 weeks

Student limit: 2

Semester hours: 4

Where to report: Dr. Vanderhoof's Office, SC, Room 3049

The student will: 1) become broadly familiar with gastrointestinal pathophysiology in infants, children and adolescents; 2) assist in evaluation of patients with complex gastrointestinal, hepatobiliary, and nutritional disorders; and 3) learn to diagnose and treat common pediatric gastrointestinal disorders, primarily in an outpatient setting.

## 731 Genetics and Metabolic Disease, Buehler, Olney, Sanger, Schaefer, Wiltse

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Where to report: TBA

The student will be helped to develop skills in diagnosing, managing and counseling patients with inherited and acquired disorders of metabolism, genetic defects and congenital malformations.

## 732 Pediatric Pulmonary (including cystic fibrosis), Colombo, Judy, Sammut

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Where to report: Dr. Colombo's Office, SC, Room 4025

Clinically relevant respiratory pathophysiology reviewed. The pediatric pulmonology clinic meets 3 half days per week. In these clinics the student, under the supervision of the staff, evaluates new and follow-up patients with all forms of pediatric lung diseases. Approximately 40% of these patients have cystic fibrosis (including adolescents and adults) and are being followed for

## PEDIATRICS

preventive care. The remainder include a significant number of patients with asthma, recurrent pneumonia, chronic and various other disorders. The student will learn to perform and interpret basic pulmonary function test. Inpatient rounds are made daily with the staff on patients hospitalized for cystic fibrosis and other pulmonary disease, including intensive care patients requiring mechanical ventilation.

### 734 Clinical Pediatric Neurology, Bowen, Larson, McAllister

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4  
Where to report: MRI, Room 2030, 8:00 a.m.

This course offers students clinical pediatric neurology experience with specific focus on evaluation, diagnosis and treatment of the neurological diseases in children from conception to the adult state under close supervision of the faculty.

### 736 Developmental Pediatric Practicum, Buehler, Hanna

Periods offered: Each 4 weeks  
Student limit: 2  
Semester hours: 4  
Where to report: MRI, Room 2013

The student will assist and participate with the medical staff in the diagnosis, evaluation and programming of children presenting significant developmental delays at Meyer Rehabilitation Institute. An office practice format will be followed, and a schedule will be developed for each student to reflect individual interests and needs. Opportunity will be given to observe and participate in evaluations, therapies, and interdisciplinary conferences provided by other disciplines in the institute, such as psychology, speech pathology, physical therapy, occupational therapy, special education, social work, vocational rehabilitation and dentistry. The student will receive experience in the use of diagnostic screening techniques such as the Milani Comparetti Motor Development Screening test and the Denver Developmental Screening Test. Students will participate in one or two State Services for Crippled Children clinics at the institute. About seven complete evaluations are carried out each week and there are over 700 treatments a month in a variety of programs for children with developmental problems.

### 742 Pediatric Nephrology, Houser, Angle, Lovell

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4  
Where to report: TBA

The student will become familiar with pediatric aspects of genito-urinary tract disease. Specifically: 1) medical management of congenital renal or G-U anomalies; 2) acute and chronic urinary tract infections; 3) evaluation of asymptomatic proteinuria and hematuria including urine sediment examination; 4) evaluation and therapy of hypertension; 5) medical management of acute or chronic renal failure including dialysis and transplantation; and 6) management of acute or chronic glomerulonephritis.

### 750 Honors Pediatrics, Buehler, Wiltse

Periods offered: Each 4 weeks  
Student limit: 2  
Semester hours: 4  
Where to report: Dr. Wiltse's office  
Prerequisite: By invitation only

The student will work under the direct supervision of one or more of the above designated faculty and will have opportunities to attend all regularly scheduled clinical conferences within the department (resident's morning report, grand rounds, cardiology, hematology, genetics, neonatology), make patient rounds with senior residents on subspecialty rotations, participate in on-going research in an area of interest, prepare bibliographic reviews, and do directed reading on topics of current interest in pediatrics.

### 751 Pediatric Subinternship, Wiltse

Periods offered: Each 4 weeks  
Student limit: 2  
Semester hours: 4  
Where to report: TBA  
Prerequisite: M4, Grade of A or B in required clerkship

This senior pediatric elective is an opportunity for medical students to get hands on experience in a wide variety of hospitalized pediatric patients. The student will admit, evaluate, manage,



and discharge patients on the wards at University Hospital in a rotating fashion with pediatric interns. This will be done under the guidance and supervision of the senior pediatric resident and the attending physician. Admissions will be assigned to maximize the student's exposure. The student will be expected to take in-house night call.

## 760 General Pediatric Preceptorship

Periods offered: Each 4 weeks  
Student limit: By arrangement  
Semester hours: 4

Pediatricians throughout the state have expressed an interest in having medical students spend four or more weeks with them in their private offices.

YOU MUST CONTACT THE PRECEPTOR ON AN INDIVIDUAL BASIS TO RESERVE A TIME FOR THIS SERVICE. A LIST OF PRECEPTORS IS AVAILABLE IN THE DEPARTMENT OF PEDIATRICS.

## 764 Pediatrics Off-Campus Elective with University Affiliation

Periods offered: Each 4 weeks  
Student limit: None  
Semester hours: 4

Senior students may request credit for any off-campus program which offers unusual opportunities in clinical or investigative pediatrics. *Advance departmental approval is required. An off-campus elective application must be submitted for this experience. (See off-campus elective procedures.)*

## 766 Pediatric Off-Campus Elective in Non-University Location

Periods offered: Each 4 weeks  
Student limit: None  
Semester hours: 4

Same as PEDS-764 except for location.

## 770 Clinical Genetics, Sanger and Staff

Course contents and areas of study are: 1) An introduction to the field of medical genetics, 2) mitosis and meiosis, 3) human cytogenetics, 4) genes and man, and 5) genetic counseling.

## 700 Fellowship in Cardiovascular Research

This elective is intended to provide assistance and supervision to a student interested in research in cardiology. Funds may be available for support.

## 796 Pediatric Research, Staff

Periods offered: Each 4 weeks  
Student limit: By arrangement  
Semester hours: 4

A student interested in participating in an ongoing active research area within the Department of Pediatrics may arrange with the appropriate faculty to devote an elective month to laboratory investigation. By registering for the Pediatric Research elective and a related clinical subspecialty elective in consecutive months, the student could arrange a flexible program permitting simultaneously enrolling for a graduate level course in a related basic science subject.

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## PHARMACOLOGY

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**PROFESSORS** Berndt, Bylund (Chairperson), Ebadi, Hexum, Murrin, Ruddon, Toews; **ASSOCIATE PROFESSORS** Bartek, Deupree, Hamel, Iversen, Monaghan, Perini, Scholar; **ASSISTANT PROFESSORS** Blaxall, Kawahara, Livezey, Morrisett, Rappaport, Smith, Smithgall, Thoreson, Vorce; **INSTRUCTORS:** Cerutis, Buller

### Pharmacology — PHAR

**270 Pharmacology and Drug Therapy for Students of Nursing** (2 s h cr, F. W), Course director — Bartek.

- 307 Pharmacology for Physician Assistants** (5 s h cr, W), Course director — Deupree.  
The course is intended to provide the students with basic information in all of the major areas of pharmacology, including general principles, pharmacokinetics, drug interactions, chemotherapy, and the pharmacology of the autonomic and central nervous systems, and the cardiovascular, renal, gastrointestinal, and endocrine systems.
- 319 Pharmacology for Physical Therapists** (1 s h cr, F), Vorce  
A brief survey of many aspects of pharmacology is presented with special attention to those drugs that will alter physical therapy techniques and to physical therapy techniques that will alter drug therapy.
- 721 Advanced Pharmacology**, Staff  
Periods offered: Winter  
Student limit: Minimum of 5  
Semester hours: 2  
Prerequisites: Consent of instructor  
An extensive treatment of the principles of drug action as the basis of pharmacology.
- 760 Off-Campus Pharmacology Electives or Clerkships**, Staff  
Periods offered: Open  
Student limit: By individual approval only  
Semester hours: Arranged  
Prerequisites: Consent of instructor  
Pharmacology research electives in universities or research institutes or clerkship in clinical pharmacology in teaching hospitals or medical centers elsewhere.

## Additional Courses in Pharmacology:

Flexible studies in pharmacology (1 semester hour each) are provided to offer medical students additional opportunities to further pursue in-depth experiences in pharmacology beyond those obtained from the courses listed above. Research opportunities in select areas of pharmacology will also be made available.

In certain areas it may be desirable for a student to make arrangements to study a specific problem with guidance from both a clinical faculty and a staff member of the Department of Pharmacology. Every attempt will be made by the faculty of the Department of Pharmacology to integrate the information to be presented with the appropriate faculty of the clinical department.

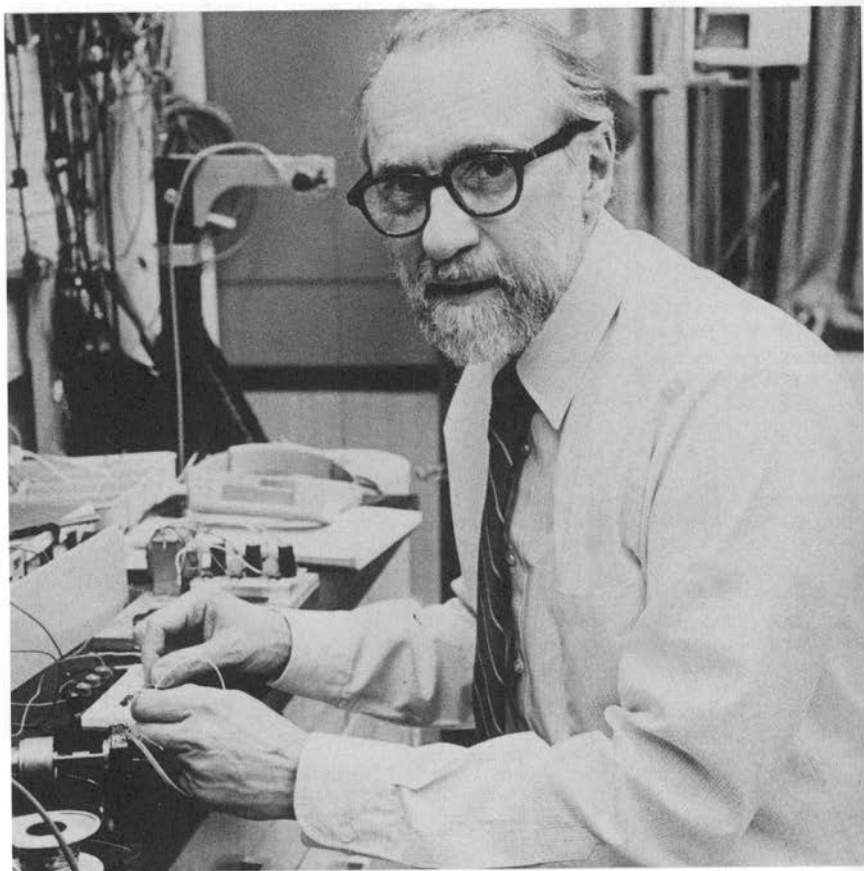
## Basic Science Selectives (See INTERDEPARTMENTAL section for course information)

- M-ID 740A Clinical Pharmacology
- M-ID 741A Laboratory Research in Pharmacology
- M-ID 741B Laboratory Research in Pharmacology
- M-ID 742A Literature Research in Pharmacology
- M-ID 742B Literature Research in Pharmacology
- M-ID 742C Literature Research in Pharmacology
- M-ID 742D Literature Research in Pharmacology

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## PHYSIOLOGY AND BIOPHYSICS

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**PROFESSORS** Clark, Mann, Zucker (Chairperson); **ASSOCIATE PROFESSORS** Carmines, Cornish, Mayhan, Patel, Rozanski, Schultz; **ASSISTANT PROFESSORS** Wang; **ADJUNCT** Roy; **EMERITUS** Gilmore.

Medical students can arrange to combine the M.D. degree with a Ph.D. degree, and we encourage those interested in a research-oriented medical center to investigate the combined degree. If you would like more information about how you might earn the Ph.D. degree in Physiology in addition to the M.D. degree, please contact Dr. Kaushik P. Patel in the Department of Physiology and Biophysics. We welcome your inquiry. Also, the Bulletin of The Graduate College (available from the Graduate College) provides additional details about the requirements for the Master's and Ph.D. degrees.

## Physiology and Biophysics — PHYS

### 690 Research Experience in Physiology

Semester hours: By arrangement

Prerequisites: By arrangement

Students schedule time to work in the laboratory of a faculty member who will familiarize the student with research techniques and experimental procedures. Students may choose a problem currently under investigation in an investigator's laboratory or work on a problem of their own design. The student will be expected to spend his or her full time on the project for a full semester.

Space and equipment limitations may restrict the number of students that can be accommodated and the nature of the project. If you have any interest in obtaining research experience now or in the future, we encourage you to visit the department at any time to discuss opportunities. There is no obligation. Contact Dr. Kaushik P. Patel.

### 760 Off-Campus Elective

Periods offered: Each 4 weeks

Student limit: By arrangement

Semester hours: 4

### 614 Scientific Writing, 1 cr.

Prerequisite: Consent of instructor

Helps students improve their writing of grant proposals, scientific papers, essays and examination questions. Contact Dr. Michael Mann.

### 702 Special Topics, 1-4 Cr (Note: no more than 8 credits of "Special Topics can be used toward a degree).

Prerequisite: Consent of instructor

Reviews a current research problem in one of the areas of physiology. The course is done on either an individual basis or in a small group where the student or students meet with one or two members of the staff. In some cases, the student may participate in a special seminar series devoted to a particular area of research.

### 714 Advanced Reproductive Endocrinology, 2 cr.

Prerequisite: Consent of the instructor and a basic knowledge in reproductive endocrinology.

The course consists of an in-depth discussion of cellular and molecular mechanism(s) underlying the endocrine regulation of selected areas in female reproductive system. A major emphasis will be given to current advances. The course will include two or three presentations by visiting faculty who are nationally and internationally recognized experts in these areas. The mode of teaching will be informal round-table type discussion.

### 716 Advanced Cardiovascular Physiology, 2 cr.

Prerequisite: Consent of the instructor

Provides an in-depth discussion of a selected area in cardiovascular physiology with an emphasis on recent research findings. The course includes two or three presentations by visitors from other institutions who are experts in the area. Students will have an opportunity for informal discussions with the visitors offered approximately once every two years.

### 718 Advanced Respiratory Physiology, 2 cr.

Prerequisite: Consent of instructor

Provides an in-depth discussion of a selected area in respiratory physiology with an emphasis on recent research findings. The course includes two or three presentations by visitors from other institutions who are experts in the area. Students will have an opportunity for informal discussions with the visitors offered approximately once every two years.

### 724 Advanced Neurophysiology, 2 cr.

Prerequisite: Consent of the instructor

Provides an in-depth discussion of a selected area in neurophysiology with an emphasis on recent research findings. The course includes two or three presentations by visitors from other institutions who are experts in the area. Students will have an opportunity for informal discussions with the visitors offered approximately once every two years.

### 726 Advanced Cell Physiology, 2 cr.

Prerequisite: Consent of instructor

Current topics in cell biology with particular attention to relationships to medicine. Structure function correlations will be emphasized. The course includes two or three presentations by visiting faculty who are experts in the area. Students will also have opportunity for informal discussion with the visitors.

## PHYSIOLOGY AND BIOPHYSICS

### **728 Advanced Neuroendocrinology, 2 cr.**

Prerequisite: Biochem 811, consent of instructor

A discussion of the interaction between the brain and the glands whose secretion is controlled by the central nervous system. Areas to be covered include the hemostatic (feedback) regulation of pituitary secretion, neuroendocrine reflexes, rhythmic hormonal secretion, hormonal adaption to environmental change and effects of hormones on neural activity and behavior. The course includes two or three presentations by visiting faculty who are experts in the area. Students will also have an opportunity for informal discussion with the visitors offered approximately once every two years.

### **730 Advanced Renal Physiology, 2 cr.**

Prerequisite: Consent of the instructor

Provides an in-depth discussion of a selected area in renal physiology with an emphasis on recent research findings. The course includes two or three presentations by visitors from other institutions who are experts in the area. Students will have an opportunity for informal discussions with the visitors offered approximately once every two years.

### **Basic Science Selectives (See INTERDEPARTMENTAL section for course information)**

- M-ID 725A Mechanisms of Heart Failure**
- M-ID 726A Cardiovascular Adjustments to Environmental Stress  
(Microgravity and Altitude)**
- M-ID 726B Cardiovascular Adjustments to Environmental Stress  
(Microgravity and Altitude)**
- M-ID 727A Research in Physiology**
- M-ID 727B Research in Physiology  
Development of PBL Cases**
- M-ID 728A Development of PBL Cases**
- M-ID 728B Development of PBL Cases**
- M-ID 729B Mechanisms and Treatment of the Migraine Headache**
- M-ID 761 Ionic Mechanisms of Antiarrhythmic Therapy**

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## PREVENTIVE AND SOCIETAL MEDICINE SECTION ON HUMANITIES AND LAW

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**PROFESSORS** Anderson (Chairperson) Carrigan, Dougherty, Mueller, Palmer, Patil, Prentice, Stover, Thill; **ASSOCIATE PROFESSORS** Greiner, Jameton, Lawson, Meyers; **ASSISTANT PROFESSORS** Bobo, Jones, Longo, McIlvain, Medder, Peck, Pierce, Reitemeier, Strickland, Susman; **INSTRUCTORS** Meusey, Navis; **EMERITUS** Friedlander.

## PREVENTIVE AND SOCIETAL MEDICINE, SECTION ON HUMANITIES AND LAW

### Preventive and Societal Medicine — P-SM

#### **612 Professional Standards: A Comparison of Ethical and Legal Aspects of the Physician-Patient and Lawyer-Client Relationships** (3 s h cr)

This course examines legal and ethical aspects of the physician-patient and lawyer-client relationships, showing their common themes and highlighting significant differences. The sessions emphasize ways in which physicians and lawyers can collaborate to help assure high quality health care and legal services. Readings, discussion and case studies are employed to illustrate the above.

Designed for students in law and medicine. Class meets once a week in the evening with half the sessions conducted in Omaha, half in Lincoln (transportation provided). Enrollment limited to 12 students from each college (UNMC and College of Law).

#### **622 Medical History** (2 s h cr)

This series of lectures offers an introduction to the history of medicine and allied fields. It stresses the development of ideas, the relation of medicine to society, and the interrelations among the various medically allied fields rather than only biographic material.

#### **426/626 Ethical Decision-Making in the Clinical Setting** (2 s h cr)

This course introduces the student to basic ethical theory and concepts that are relevant to the health care setting. A problem-solving approach to the resolution of moral conflict is introduced. Through case analysis and discussion students are encouraged to (1) explore their own value systems; (2) become proficient in analyzing ethical issues; and (3) explore alternative, morally justifiable courses of action.

#### **770 Advanced Seminar in Medical Humanities** (1-4 s h cr)

This course allows individual students to pursue their special interests in selected areas of medical humanities with members of the department.

#### **771 International Health Elective** (4 h cr)

This course allows students to experience a clinical rotation in a Third World Country with the primary destination being Belize, Central America. The objectives of the course are to enable fourth year medical students to: 1) Broaden their clinical skills and judgment in a setting unlike that encountered in their training in the United States; 2) Compare the health care delivery systems and major health problems of a less developed country with those of the United States; and 3) Achieve personal growth and enrichment through close contact with another culture.

#### **802 Ethics in Health Care** (3 s h cr)

This course is an interdisciplinary examination of biomedical and clinical ethics, with special attention to recent research and case studies in clinical practice.

#### **806 Biostatistics I** (3 h cr)

The objective of this course is to prepare the graduate student to understand and to apply the basic biostatistical techniques needed in the design and analysis of biomedical investigations. The students will be introduced to a software which will be used for the management and statistical analyses of data in homework problems. Specific concepts and topics discussed are: basic probability distributions — binomial, poisson, normal, t, chi-square, and F; t-test, chi-square test, linear regression, one-way analysis of variance and Duncan's, Newmann Keul's and Scheffe's post-hoc tests, Man-Whitney's rank sum test, Wilcoxon's matched pairs test, Spearman's correlation coefficient, Kruskal-Wallis test; methods of censored data, types of research designs, reduction of bias, p-value, power of statistical test, one and two tails in p-value, assumptions underlying statistical tests, determination of sample size, treatment of outliers and missing observations.

#### **808 Biostatistics II** (3 h cr)

This course is designed to prepare the student to understand and apply advanced biostatistical methods needed in the design and analysis of biomedical investigations. The specific topics to be covered are: univariate and multivariate analysis of variance, including repeated measures and analysis of covariance; categorical data analysis, including sampling schemes, measures of association, reliability and validity in 2x2 tables, Mantel-Haenszel statistics, and logit-linear models for binomial data; multiple regression and the use of variable transformation; survival analysis, including actuarial and Kaplan-Meier methods. In addition, time will be reserved for a discussion of topics of special interest (e.g., nonlinear regression, bioassay, experimental design, sample size determination in clinical trials) or for the analysis of data resulting from recent clinical trials. The statistical software SAS will be used for all analyses. Prereq: P-SM 806 or permission of instructor.



## PREVENTIVE AND SOCIETAL MEDICINE, SECTION ON HUMANITIES AND LAW

### **820 Epidemiology Theory and Application (3 h cr) (offered even numbered years)**

The objective of the course is to understand the application of survey and research methodology in epidemiology, especially in the community setting. Theoretical aspects will be taught as an integral part of understanding the techniques of study design and community survey. Concepts to be covered include measures of disease occurrence, measures of disease risk, study design, assessment of alternative explanations for data-based findings and methods of testing or limiting alternatives. Students will be expected to address an epidemiologic question of interest to them, first developing the hypothesis, doing a literature search, then developing a study design and writing, in several stages, a brief proposal for the study.

### **896 Special Problems in Medical Humanities (1-4 s h cr)**

Prerequisite: Graduate Standing

This is a research other than thesis course which allows individual students to pursue interests in selected areas of the medical humanities.

### **Basic Science Selectives (See INTERDEPARTMENTAL section for course information)**

- M-ID 747A Humanities and Law: Health and Poverty**
- M-ID 747B Humanities and Law: Health and Poverty**
- M-ID 748A Humanities and Law: The Culture of Health Care**
- M-ID 748B Humanities and Law: The Culture of Health Care**
- M-ID 749A Humanities and Law: Topics in Health Care Ethics**
- M-ID 749B Humanities and Law: Topics in Health Care Ethics**
- M-ID 750A Humanities and Law: Human Health and the Environment**
- M-ID 750B Humanities and Law: Human Health and the Environment**
- M-ID 751A Humanities and Law: Abortion: Cultural, Ethical and Medical Issues**
- M-ID 751B Humanities and Law: Abortion: Cultural, Ethical and Medical Issues**

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## PSYCHIATRY

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**PROFESSORS** Chu, Fine, Folks, (Chairperson), Mead; **RESEARCH PROFESSOR** Copenhaver; **ASSOCIATE PROFESSORS** Bhatia, Burke, Greiner, Haffke, Kenney, Mitchell, Paige, Swanson, Theesen, Weiler, Wilson, ; **ASSISTANT PROFESSORS** Bhatia, Boust, Carver Cyr, Davis, Grant, Gupta, Hendrickson, Horton, Hughes, Isern, Legino, Madison, Parker, Rappaport, Roccaforte, Starr, Wengel, **INSTRUCTORS** Betts, Egbert, Fleisher, Ruma.

Courses are planned to give the student, commencing in his/her freshman year, correlated progressive training in the anatomical, physiological, and psychological fundamentals of psychiatry.

The Department of Psychiatry participates in the Integrated Clinical Experience (ICE) Curriculum. This year-long course replaces the behavioral science course and other subjects previously taught by the Department of Psychiatry during the first and second years. The ICE Curriculum is described elsewhere in the bulletin.

## Psychiatry — PSYC

**616 Foundation of Biological Psychiatry**, Copenhaver, Gupta, Rappaport

Periods offered: By arrangement each 4 weeks  
 Student limit: By arrangement  
 Semester hours: 4 per four weeks

This course reviews basic neurobiology, neuroanatomy and neurochemical mechanisms, related to biological psychiatry. Emphasis is placed on the mechanism of action of psychopharmacological agents with respect to neurotransmitters, neuromodulators, and their interactions within the CNS. Drugs utilized in clinical psychopharmacology will be covered with regard to receptor-mediated events. Current literature in these areas will be reviewed by the student.

**644 Outpatient Psychiatry**, Boust

Periods offered: By arrangement each 4 weeks  
 Student limit: 1 to 2 per 4 weeks  
 Semester hours: 4 per 4 weeks  
 Prerequisite: 70-705

Lectures, seminars, demonstrations in individual and group psychotherapy and psychopharmacology with adult outpatients.

**646 Child and Adolescent Psychiatry**, Bhatia, Fine, Isern, Starr and Swanson

Periods offered: By arrangement each 4 weeks  
 Student limit: 2 per 4 weeks  
 Semester hours: 4 per 4 weeks

Where to report: Child and Family Service, 2205 So. 10th Street

The elective is primarily clinical. Students will work with faculty and house staff as an integral part of the child and adolescent training program. A variety of supervised opportunities are available, including inpatient at St. Joseph Center for Mental Health, outpatient at Child and Family Psychiatry Outpatient Service and community and pediatric consultations. Students are welcome to attend regular case conferences, journal clubs, and observation clinics.

**705 Required Psychiatry Clerkship**, Hendrickson

Periods offered: Each 6 weeks  
 Student limit: 14  
 Semester hours: 6

A full-time, six-week required clinical clerkship is to be taken in the junior year. Students are assigned to instructors on a tutorial basis and under this detailed supervision are assigned patients on the adult inpatient service, adult outpatient service, liaison service, the Veterans Administration Hospital, Douglas County Hospital and St Joseph Center for Mental Health. Although assigned to a specific service, a core-curriculum of didactic lectures of common psychiatric disorders provides each student with experiences on all services of the Department of Psychiatry.

**710 Clinical Psychopharmacology**, Bhatia

Periods offered: By arrangement each 4 weeks  
 Student limit: 1 to 2 per four weeks  
 Semester hours: 4 per four weeks  
 Prerequisite: 70-705

This elective will help provide senior students, who have a special interest in this area, with a greater understanding of this rapidly growing field. This will be achieved through active participation of the student in clinical care conferences, discussion groups, grand rounds presentations, Medication Clinic, guided self-study and research program.

**711 Forensic Psychiatry**, Horton, Davis

Periods offered: By arrangement each 4 weeks  
 Student limit: 1 per four weeks  
 Semester hours: 4 per four weeks

This course will be reading intensive, covering the broad area of forensic psychiatry. Topics will include insanity, incompetence, involuntary civil commitment, the mentally disordered sex offender (MDSO), the juvenile court process, right to treatment, and psychiatric malpractice liability, including duty to protect third parties. Practical experience will be offered according to patient availability at the time of the elective but will include assessment of patients subject to commitment proceedings and observation of hearings. Attendance at juvenile court proceedings will be offered.

## PSYCHIATRY

### 721 Individualized Studies in Psychiatry, Chu and Staff

Periods offered: By arrangement each 4 or 8 weeks  
Student limit: By arrangement  
Semester hours: By arrangement

Demonstrations, seminars, readings and clinical experience in such areas as alcohol and drug problems, public psychiatry and mental retardation, hospital psychiatry (given at UPS, Douglas County and OVAH).

### 726 Psychiatric Problems of Adolescents, Swanson

Periods offered: All semesters; 4, 8, or 12 weeks, full or half-time  
Student limit: By arrangement  
Semester hours: 4 per 4 weeks  
Prerequisite: 70-705

Readings, demonstrations, seminars on adolescent problems. Clinical experience working with adolescents and their families and with other community agencies concerned with adolescents.

### 734 Theory and Practice in Marital and Family Problems, Parker

Periods offered: By arrangement each 4 weeks  
Student limit: By arrangement  
Semester hours: By arrangement  
Prerequisite: 70-705

Family system theory is the foundation for this clerkship. A clinical experience offering students the opportunity to participate in family, adult and child mental health diagnosis and assessment and on-going family system psychotherapy with children and families experiencing a broad range of developmental and emotional problems. Briefings, observations, readings and seminars on marital and family issues and training in the art of interviewing will be combined with clinical work and tailored to meet the individual student's needs. (You must contact the Section of Psychiatry for faculty approval.)

### 740A Consultation Liaison Psychiatry, Hendrickson

Periods offered: By arrangement each 4 weeks  
Student limit: 1-2  
Semester hours: 4

This elective provides exposure to medically ill patients with emotional/psychiatric problems with special teaching emphasis on psychiatric diagnostic issues, acute treatment plans, short term intervention techniques and supportive therapies. Readings, daily rounds, case conferences and liaison with other medical staff in emergency room and general hospital setting are all part of this elective. Experience with theory and practice of sports psychiatry may be requested.

### 740B Consultation Liaison Psychiatry, Greiner

Periods offered: By arrangement each 4 weeks  
Student limit: 1  
Semester hours: 4

This elective focuses on psychiatric issues in transplantation with specific emphasis on psychotherapy, grief work and family contexts. In addition, there is the opportunity for student to review ethical issues in medicine. The student is expected to complete readings and participate in clinical rounds and case conferences.

### 753 Psychiatric Concepts, Hendrickson and Staff

Periods offered: To be arranged  
Student limit: By arrangement  
Semester hours: By arrangement

The purposes of this course are: 1) to examine human behavior in those individual life events which are "extreme situations because of the danger, difficulty, or pain experienced by the individual; 2) to discuss the phenomenology of the event and its psychiatric and developmental consequences for the person in the short and long term; 3) to consider concepts of coping, adaptation, and personal change and apply these to the person in the extreme situations of life-threatening illness, rape, and other physical trauma, pain, and loss of personal meanings. Readings will include psychiatric literature, films, and creative literature.

### 757 Psychiatric Literature, Staff

Periods offered: To be arranged  
Student limit: By arrangement  
Semester hours: Credit arranged

Reading assignments in special areas; library reading and conferences.

**760 Off-Campus Elective**, Greiner, Hendrickson

Periods offered: By arrangement each 4-8 weeks  
 Student limit: By arrangement  
 Semester hours: 4-8  
 Prerequisite: 70-705

Off-campus electives may be taken to broaden one's knowledge of psychiatry generally or to acquire types of experience not available here. This can include transcultural experiences.

**772 Psychiatry Residency**, Davis, Greiner

This includes clinical work with psychiatric patients, combined with the study of basic psychiatric sciences, medical and social psychology, psychopathology, psychotherapy, and the physiological and pharmacological therapies, including the basic knowledge, the form, function and pertinent pathology of the nervous system. The training program in general psychiatry is of four years' duration and is supervised by the faculty to develop competency and the utilization of such basic knowledge in dealing with patients.

**798 Research in Psychiatry**, Gupta, Paige, Rappaport and Weiler

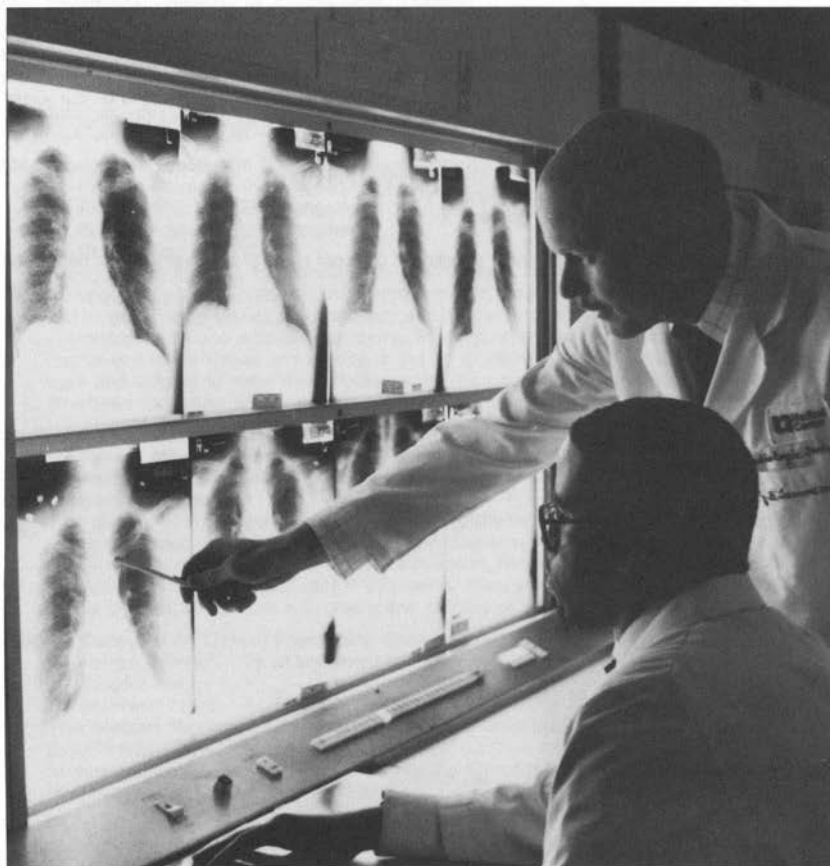
Periods offered: By arrangement  
 Student limit: By arrangement  
 Semester hours: 4

Laboratory or clinical research under direction in selected areas of psychiatry and/or behavioral sciences.

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## RADIOLOGY

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**PROFESSORS** Anderson, Dalrymple, Dobry, Hahn, Harned, Lieberman, Imray (Chairperson);  
**ASSOCIATE PROFESSORS** Gurney, LeVeen, McConnell, McCowan, Moore, Walker; **ASSISTANT**  
**PROFESSORS** Fidler, Goertzen, Harrison, Holdeman, Matamoros, Orton, Read, Saigh, Williams

## Radiology — RADI

### 720 Senior Elective in Diagnostic Radiology, Saigh, Moore

Periods offered: Each 4 weeks except December  
 Student limit: 11  
 Semester hours: 4

The goal of this elective is to familiarize the student with the diagnostic imaging services provided by the Radiology Department. The student will be involved in the daily observation of radiographic procedures and their interpretation. Independent study is also an integral part of the rotation.

Upon completion of the rotation the student should:

1. Understand indications and contraindications for requesting various imaging procedures.
2. Understand how the radiologist can assist the referring physician in the diagnosis and treatment of disease.
3. Be able to recognize the common abnormalities on chest, abdomen and extremity radiographs.

### Research Elective in Diagnostic Radiology, Radiation Therapy or Nuclear Medicine

Periods offered: Each 4 weeks  
 Student limit: 3 per session  
 Semester hours: 4

By prior arrangement, the student can pursue independent study under the direction of a faculty member. Opportunities exist for both clinical and basic research.

### 722 Radiation Therapy, Dalrymple

Periods offered: Each 4 weeks (may be extended an additional 4 weeks by permission)  
 Student limit: 2 per section  
 Semester hours: 4

Cancer is relatively rare in the usual medical practice, although it ranks second as a cause of death. Since most patients with cancer at some time in the course of their disease will receive radiation therapy, this elective permits a concentrated exposure to the manifestations of malignant disease. The emphasis will be the evaluation of patients undergoing treatment with the various radiation therapy modalities. An attempt will be made, via discussion, of particular cases to correlate the roles of surgery, chemotherapy, and radiation therapy.

### 724 Nuclear Medicine, Dalrymple

Periods offered: Each 4 weeks  
 Student limit: 4 per section  
 Semester hours: 4

This elective is directed toward acquainting the student with the field of Nuclear Medicine. The application of nuclear energy to the diagnosis, treatment, and/or investigation of human disease is surveyed with emphasis on clinical applications. The students receive didactic instruction in the principles and practice of pertinent nuclear physics and instrumentation, participate in case evaluation, procedure selection, radionuclide dose calculation and administration, conduction of the procedure, subsequent evaluation and analysis of data with interpretation and formulation of consultative report. Follow-up of patients with integration of the consultative report into the total patient care is stressed. Pertinent radiation biologic and radiation protection considerations are related to the conduct of the routine practice of nuclear medicine. Opportunity is available for the pursuit of individual interests within the overall framework of the elective.

### 760 Off-Campus Elective, Saigh

Periods offered: Each 4 weeks  
 Student limit: By arrangement  
 Semester hours: 4

Clerkships in University or teaching hospitals elsewhere, by individual approval only. Clerkships in community hospitals must be preceded by an introductory course in a teaching hospital. The details of this elective must be arranged through course coordinator.

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## SURGERY

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### **SECTION OF GENERAL SURGERY — SURG**

**PROFESSORS** Ridders (Chairperson), Shaw, Jr., Stothert, Thompson, Stratta; **ASSOCIATE PROFESSORS** Baxter, Edney, Fox, Heffron, Langnas, Lynch, Schneider; **ASSISTANT PROFESSOR** Murayama

### **SECTION OF CARDIOTHORACIC SURGERY**

**PROFESSORS** Fleming; **ASSOCIATE PROFESSORS** Duncan, Galbraith; **ASSISTANT PROFESSOR** Alonso

### **SECTION OF EMERGENCY MEDICINE**

**ASSOCIATE PROFESSORS** Mlinek, Rhee; **ASSISTANT PROFESSORS** Allen, Tran, Walker



## SECTION OF NEUROSURGERY

**PROFESSOR** Leibrock; **ASSOCIATE PROFESSOR** Patil; **ASSISTANT PROFESSOR** Brandenburg; **CLINICAL PROFESSOR** Fox; **CLINICAL ASSOCIATE PROFESSOR** Hellbusch; **CLINICAL ASSISTANT PROFESSOR** Long

## SECTION OF ORAL SURGERY

**PROFESSOR** Davis; **ASSOCIATE PROFESSOR** Tu.

## SECTION OF PEDIATRIC SURGERY

**CLINICAL ASSOCIATE PROFESSOR** Schultz; **CLINICAL ASSISTANT PROFESSORS** Pinch, Raynor

## SECTION OF PLASTIC SURGERY

**ASSISTANT PROFESSOR** Friedman, Hollins

## SECTION OF UROLOGICAL SURGERY

**PROFESSOR** Taylor; **ASSOCIATE PROFESSOR** Chiou; **ASSISTANT PROFESSORS** Donovan, Grune

## CLINICAL FACULTY

**CLINICAL PROFESSORS** Gillespie, Mardis; **CLINICAL ASSOCIATE PROFESSORS** Berman, J.B.Davis, Ferlic, Frank, Gelber, Gogela, Harry, Johnson, Karrer, Lacy, Larson, Miller, Neis, Pierson, Rasmussen, Rees, Smith Pierson, Rasmussen, Rees, J.W.Smith; **CLINICAL ASSISTANT PROFESSORS** Adwers, Akbari, Blatchford, Brinkman, Bruneteau, Buckner, Cherry, Christensen, Clinch, Collicott, Damico, Deeths, Eakions, Edney, Finkle, Gangahar, Gordon, Greene, Harris, Hayes, Hepperlen, Hirai, Howard, Hughes, Kercher, Konigsberg, Kroeger, Kuhn, Kullbom, Kutler, Latenser, Lynch, Marshall, Metz, Moor, Owen, Panzer, Paul, Peetz, Petersen, Pitsch, Porter, Quast, Rath, Reilly, Rose, Sasse, Sloan, Smith, Stephenson, Stice, Tempero, Thompson, Thorson, Tomek, Waltke, Wattenhofer, Westfall, Wingert ; **CLINICAL INSTRUCTORS** S.B. Black, Brett, Buckley, Campbell, Conant, Hanisch, Heieck, Kingston, Salumbides; **SENIOR CONSULTANTS** A.S. Black, Browne, L.D. Cherry, Coe, Ehrlich, Kammandel, Malashock; **EMERITUS** Hodgson, Singer, Skultety.

The Department of Surgery includes Sections of General Surgery, Cardiothoracic Surgery, Emergency Medicine, Neurosurgery, Oral Surgery, Pediatric Surgery, Plastic Surgery and Urological Surgery.

The surgical faculty participates with other departments in interdepartmental exercises during the first two years. The purpose is to correlate the knowledge and precepts of pre-clinical sciences with the problems displayed in patients with surgical diseases.

The Department of Surgery offers courses for students in clinical science semesters. A primary clerkship has been designed to present the principles of recognition, diagnosis, and care of surgical disease. Students are incorporated into the activities of the surgical team. After this clerkship, students may add to their breadth and depth of understanding of surgical disease by selecting electives in a variety of special areas in the Department of Surgery or in other surgical areas.

### 705/707 Primary Clerkship, Lynch, Ridders

Periods offered: Every 6 weeks

Student limit: 15

Semester hours: 6

The third year student will have a six week rotation on surgery. The first two weeks will be devoted solely to the presentation of educational and didactic material and the remaining four weeks will provide a concentrated clinical experience. This curriculum design is predicated on the assumption that students are not initially prepared for clinical rotation because they lack a knowledge of the basic concepts and principles of surgery ( which have previously been developed during the course of a twelve week rotation) and cannot fully participate because of schedule conferences. Providing a concentrated curriculum prior to the ward rotation, hopefully will make the one month clinical rotation as valuable as the current two month rotation on general surgery. The ten day surgical curriculum will employ a mixture of educational methods including didactic lectures, problem orientated case discussions, computer aided education, small group discussion and OSCE protocols.

With the completion of the two week educational unit the students will spend four weeks on a general surgical service. The junior students will rotate through the University/VA Medical Center or the Nebraska Methodist Hospital. They will be involved as a part of the ward team and will not be required to attend lectures during this period of time so that they may participate in morning and afternoon rounds and in complete patient care.

Grading/evaluation will be based on a clinical assessment and a final examination. Fifty percent of the grade will be based on clinical performance, of which 10% will be the result of three extended workup/discussions to be completed by the student and graded by the attending staff.

# SURGERY

The remaining 40% of the clinical grade will be based on a subjective evaluation of performance. The final examination will account for 50% of the grade and will be based on a multiple choice format/subject examination and computer-based problem management situations prepared by the NBME.

During the fourth year, the student will complete a mandatory four week surgical rotation. This will be in the form of a preceptorship and may be taken in a surgical subspecialty, at the University or in the community with a practicing physician. The choice will be made by the student and can reflect his long range goals.

## 710 Plastic Surgery, Hollins

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Prerequisite: Senior standing

Where to report: Students should set up assignment with the appropriate physician and verify this assignment with Teresa Allely in the Surgery Department/UMA Bldg.

This clerkship is designed to expose senior students to the principals of plastic surgery and enhance any interests they may have in the field of plastic surgery.

## 722 Elective Pediatric Surgery Clerkship, Schultz, Pinch, Raynork

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Where to report: Childrens Memorial Hospital

## 724 Elective Cardiothoracic Surgery Clerkship, Staff

Periods offered: Each 4 weeks

Student limit: 1 (except by special arrangement)

Semester hours: 4

## 726 Oral Surgery, Davis

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Prerequisite: Permission from Dr. Leon Davis

Where to report: Oral Surgery Office

The clerkship is designed to acquaint the student with the technique of oral examination, diagnosis, treatment planning and surgical management of oral disease processes.

## 728 Elective General Surgery Clerkship

Periods offered: Each 4 weeks

Student limit: 1

Semester hours: 4

Designed to build on the foundation achieved in the primary clerkship. The student is an active participant in the professional team caring for patients. Students can expect to acquire confidence in identifying problems, organizing a plan of approach, and conducting patients through the pre-operative and post-operative periods in conjunction with the faculty at affiliated hospitals.

## 729 General Surgery at UNMC and Omaha VA, Staff

Periods offered: Each 4 weeks

Student limit: 2 (1 Red or Blue and 1 OVAMC)

Semester hours: 4

Where to report: Teresa Allely, Dept. of Surgery, UNC

This elective is recommended to students interested in a more in-depth exposure to General Surgery. Any student wishing to select this elective must contact one of the attending staff on the service and obtain their approval. The attending will then act as the student preceptor during this rotation. Students will be expected to function as subinterns on the service, including the pre- and post-operative management of patients and the taking of first call in the hospital for the service under the direct supervision of their chief resident. The student will be expected to be an active participant in the operating room, outpatient clinic and emergency room. The student will meet at least weekly with one of the attending staff on an individual basis, at which time he/she will be responsible for discussing either a specific aspect of surgical management or reviewing some interesting case. Students will be responsible for preparing a clinical conference for formal presentation to all members of their team.

## 731 Community Emergency Department — Immanuel Hospital

Periods offered: Each 4 weeks  
 Student limit: 2  
 Semester hours: 4  
 Where to report: Immanuel Emergency Dept.

This is an experience at the Immanuel Hospital which will show the operation of a community emergency department in a private hospital. The student will be supervised by full-time staff who are also volunteer faculty of the College of Medicine. For further information, contact Dr. Bechtel (402-572-2225).

## 732 Community Emergency Department — Lincoln General Hospital

Periods offered: Each 4 weeks  
 Student limit: 1  
 Semester hours: 4  
 Where to report: Medicine Staff Office

This is an experience at the Lincoln General Hospital which will show the operation of a private hospital community emergency department. The student is supervised by full-time staff who are also volunteer faculty of the College of Medicine. For further information, contact Dr. Billups at Lincoln General Emergency Department (402-473-5142).

## 733 Community Emergency Department — University Hospital

Periods offered: Each 4 weeks  
 Student limit: 4  
 Semester hours: 4  
 Where to report: Emergency Department

This is an experience at University Hospital which will show the operation of an Emergency Department in a large community. The student is supervised by full-time Emergency Medicine faculty. Those who are contemplating a residency in Emergency Medicine are encouraged to spend some time with the faculty here either by doing this elective or a special project. This experience provides not only extensive teaching but also hands on care. Experience with prehospital care via the Omaha Police Department paramedics will be encouraged. For further information contact Dr. Kenneth Rhee at the Department of Emergency Medical Services (402-559-6706).

## SPECIAL OFF-CAMPUS ELECTIVE

Special interests of well-developed career goals may lead a student to favor a special course or experience within or away from the Medical Center. In consultation with, and under the auspices of a member of the faculty, special arrangements can be made. Permission for this period will be contingent upon designing a supervised educational opportunity.

## 760 Off-Campus Surgery Elective

Periods offered: Each 4 weeks  
 Student limit: By arrangement  
 Semester hours: 4

## 761 Off-Campus Emergency Medicine

Periods offered: Each 4 weeks  
 Student limit: By arrangement  
 Semester hours: 4

Arrangements can be made for off-campus electives by calling (402) 559-5646.

## 766 Preceptorial Surgery Elective

Periods offered: Each 4 weeks  
 Student limit: By arrangement  
 Semester hours: 4

Many members of the active faculty have indicated their willingness to share a preceptorial clerkship with a student. The list of faculty is maintained in the Department of Surgery. This involvement with surgeons of our faculty in an active practice in Council Bluffs, Ia., and Omaha, Beatrice, Lexington, Lincoln and Kearney, Ne., can be arranged with the member of the faculty selected and certified by the Department of Surgery. Bear in mind that each member of the faculty will set his own individual student limit.

## RESEARCH ELECTIVES

Length of approved time to be determined. In general, this type of experience is favored for a student who has identified a research problem for which capacity and facilities exist to permit a fruitful period of study and effort.

## **SURGERY**

### **772 Surgery Residency**

This is a comprehensive five year program leading to board eligibility. Emphasis is placed on developing excellence in clinical surgery in an environment which also allows involvement in research and academic activities. During these five years, the resident develops expertise in preoperative and postoperative care and operative technique through a program of graduated responsibilities. Experience is gained in general surgery, transplantation, vascular, surgical oncology, cardiothoracic, plastic and reconstructive surgery and traumatology. Additionally, electives are provided to satisfy the board requirements in general surgery.

### **776 Oral and Maxillofacial Surgery Residency**

The advanced education program in Oral and Maxillofacial Surgery comprises six (6) years. This program is offered by the University of Nebraska College of Medicine. The graduate dentist enters as a first year oral surgery resident, during which time he/she initiates their oral surgery training. During that first year the resident makes application to the College of Medicine for admission in advanced standing, provided he or she successfully passes the Step I USMLE. Successful completion is necessary in order to proceed in the curriculum. The second and third years are spent as a junior and senior in the College of Medicine curriculum. With the satisfactory completion of the above, the resident is awarded a medical degree. The fourth and fifth years of the program consist of categorical general surgery training, including six months in oral and maxillofacial surgery at Medcenter One in Bismarck, N. D. The sixth year is spent entirely in oral and maxillofacial surgery. Clinical experience is gained in outpatient and inpatient management of oral diseases, injuries, and/or other abnormalities. The resident is given increasing responsibilities as educational and clinical experience dictates. Additional experience is provided in oral and general pathology, general surgery, general anesthesia, and maxillofacial radiology and research.

### **790 Surgery Research**

Periods offered: By arrangement with department  
Student limit: By arrangement with department  
Semester hours: By arrangement with department

## **SURGERY, GENERAL EXERCISES**

### **Surgery Grand Rounds (Saturday A.M.)**

Presentation and analysis of clinical problems. Faculty, house officers, and students.

### **Surgery Seminar (Wednesday, 7:00 A.M.)**

Presentation and discussion of subjects and articles related to surgery. Faculty, house officers, and students.

## **NEUROSURGERY (SECTION OF SURGERY)**

### **Neurosurgery — NSUR**

#### **734 Pain Management Center Clerkship, Guck, Kanazi, Leibrock**

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4

The elective offers the student exposure to a multidisciplinary treatment facility for chronic pain which cannot be treated medically or surgically. Students will attend the Pain Clinic to learn about biofeedback. Individual psychotherapy and group counseling, exercise, physical therapy, medication withdrawal, and neurological issues, as they apply to the chronic pain patient. Medical supervision will be provided by the Neurosurgery Section of Surgery and the Department of Anesthesiology.

#### **738 Neurosurgery Clerkships, Leibrock**

Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4

Prerequisite: Surgery Clerkship required

Elective offers student experience with respect to diagnosis, treatment and management of patients with neurosurgical diseases under close supervision of the faculty.

#### **740 Preceptorial Neurosurgery Elective**

Periods offered: Each 4 weeks  
Student limit: 1 per service  
Semester hours: 4

Prerequisite: Surgery Clerkship required

Members of the clinical faculty of the Division of Neurosurgery offer preceptorial elective clerkships for students. Four clerkships are available: one each with Dr. John Greene and Dr. George Greene,

Omaha; Drs. L. Hellbusch, D. Long, J. Fox, Omaha; Drs. L. Gogela, E. Pierson, B. Gelber, Lincoln and Dr. R. Salumbides, Kearney. Prior arrangements must be made with the physician involved, and approved by the Neurosurgery Section. A student evaluation of the clerkship will be required upon completion of the clerkship.

## 799 Neurosurgery Research Elective

Period offered: All semesters  
 Student limit: By arrangement  
 Semester hours: Total hours by individual arrangement

This elective offers students an opportunity to work with faculty members in clinical investigations of neurosurgical diseases and to participate in ongoing research projects. Definitions of problems and programs of learning will be decided upon discussion with faculty.

## UROLOGY (SECTION OF SURGERY)

The fundamental principles of adult and pediatric urology, including the diagnosis and treatment of urinary infections, management of genito-urinary trauma and congenital anomalies, malignancies and stone disease are taught so that the general physicians will be able to recognize these problems and treat those that are within his/her scope.

This is accomplished by a continual year-long series of seminars, bedside rounds, outpatient clinic and operating room experience, and combined conferences in genitourinary radiology, pathology and pediatric urology.

Aside from the undergraduate teaching, the members of this division provide instruction to residents and nurses. They also provide urological care to patients at the University Hospital, Veterans Administration Hospital, Omaha, Bishop Clarkson and Childrens/Methodist Hospitals.

## Urology — UROL

### 720 Hospital Clerkship, Dr. Martin T. Grune

Periods offered: Each 4 weeks  
 Student limit: 2  
 Semester hours: 4

Students may select a one-month period of urology. They are assigned to the University Hospital or the Omaha Veterans Administration Hospital and Childrens/Methodist Hospital. Special emphasis is devoted to principles of diagnosis and treatment especially pertinent to urology. Students participate in operations including transurethral surgery, and attempts are made to correlate operative findings with radiologic and pathologic findings. Students should make requests for hospital assignments through Madeline Tomich at ext. 4683.

## Residency Program

The graduate training program in genito-urinary surgery is designed to meet the current requirements of the American Board of Urology. The aim is to expose the resident to all phases of urology. This includes urologic diagnosis including endoscopy, pre- and post-operative management, and performance of a sufficient number and variety of surgical procedures, including endoscopic operations, to become a competent urologic surgeon.

### 772 Urology Core Residency

A full-time, four-year program of clinical assignments utilizing the patient material and the faculty working at the Methodist Hospital, Omaha V.A. Medical Center, and the University of Nebraska Medical Center hospital. Background in the physiology, radiology, and pathology of the kidney and urinary tract are taught in seminars and conferences in conjunction with the facilities of these respective hospitals.

### 774 Urology Chief Residency

A year-long, full-time clinical program with assignments at the Veterans Administration Hospital, Omaha and the University of Nebraska Medical Center. The Chief Resident is given clinical responsibility for both diagnostic and operative urology under faculty supervision.

### 797 Research in Urology

Prerequisite: Special Permission

The student may elect to spend a period in laboratory or clinical research. This can be arranged by contacting Dr. Rodney Taylor, Dr. Rei K. Chiou or Dr. Ming Fong Lin.

## Basic Science Selectives (See INTERDEPARTMENTAL section for course information)

- 762A Senior History and Physical Diagnosis Elective
- 762B Senior History and Physical Diagnosis Elective



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## Faculty Listing

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- Abdouch, Ivan G.**, B.S. 1973 University of Nebraska-Lincoln, M.D. 1977 University of Nebraska College of Medicine, Assistant Professor, Family Medicine
- Abromowitch, Minnie, B.S.** 1973 University of Manitoba, M.D. 1973 University of Manitoba, Associate Professor, Pediatrics
- Adam, George M.**, B.S.M. 1970 University of New Mexico, M.D. 1972 University of Nebraska College of Medicine, Clinical Assistant Professor, Obstetrics/Gynecology
- Adams, J. Michael**, B.S. 1971 University of Nebraska-Lincoln, M.D. 1975 University of Nebraska College of Medicine, Clinical Associate Professor, Internal Medicine
- Adickes, Edward D.**, B.S. 1971 Albright College, D.O. 1977 College Osteopathy, Clinical Assistant Professor, Internal Medicine
- Adkins, Deborah A.**, M.D. 1971 West Virginia, Clinical Instructor, Otolaryngology-Head and Neck Surgery
- Adkins, Nathan R.**, B.S. 1954 University of Nebraska-Lincoln, M.D. 1958 University of Nebraska College of Medicine, Clinical Assistant Professor, Radiology
- Adwers, James R.**, B.S. 1965 University of Nebraska at Omaha, M.D. 1969 University of Nebraska College of Medicine, Clinical Assistant Professor, Surgery
- Ahmad, Iqbal**, B.S. Patna University, India 1980 Kent State University 1990, Assistant Professor Cell Biology and Anatomy
- Aita, John F.**, B.A. 1964 University of Iowa, M.D. 1968 University of Nebraska College of Medicine, Clinical Assistant Professor, Internal Medicine
- Akabani, Gamal**, B.S. University of Mexico 1985, M.S. Texas A & M University 1987, Ph.D. Texas A & M University 1990 Assistant Professor Radiology
- Akbari, Ahmad**, M.D. 1954 University of Tehran School, Clinical Assistant Professor, Surgery
- Akl, Ahmad**, M.D. 1982 Cairo University, Instructor, Radiology
- Al-Turk, Mohammad Ahmad**, M.D. 1978 Mosul Medical College, M.S. 1982 University of Nebraska College of Medicine, Clinical Instructor, Family Medicine
- Albers, John A.**, B.S. 1961 University of Nebraska-Lincoln, M.D. 1965 Tulane University, Clinical Instructor, Orthopedic Surgery
- Albin, Roger D.**, M.D. 1977 University of Nebraska College of Medicine, Clinical Instructor, Family Medicine
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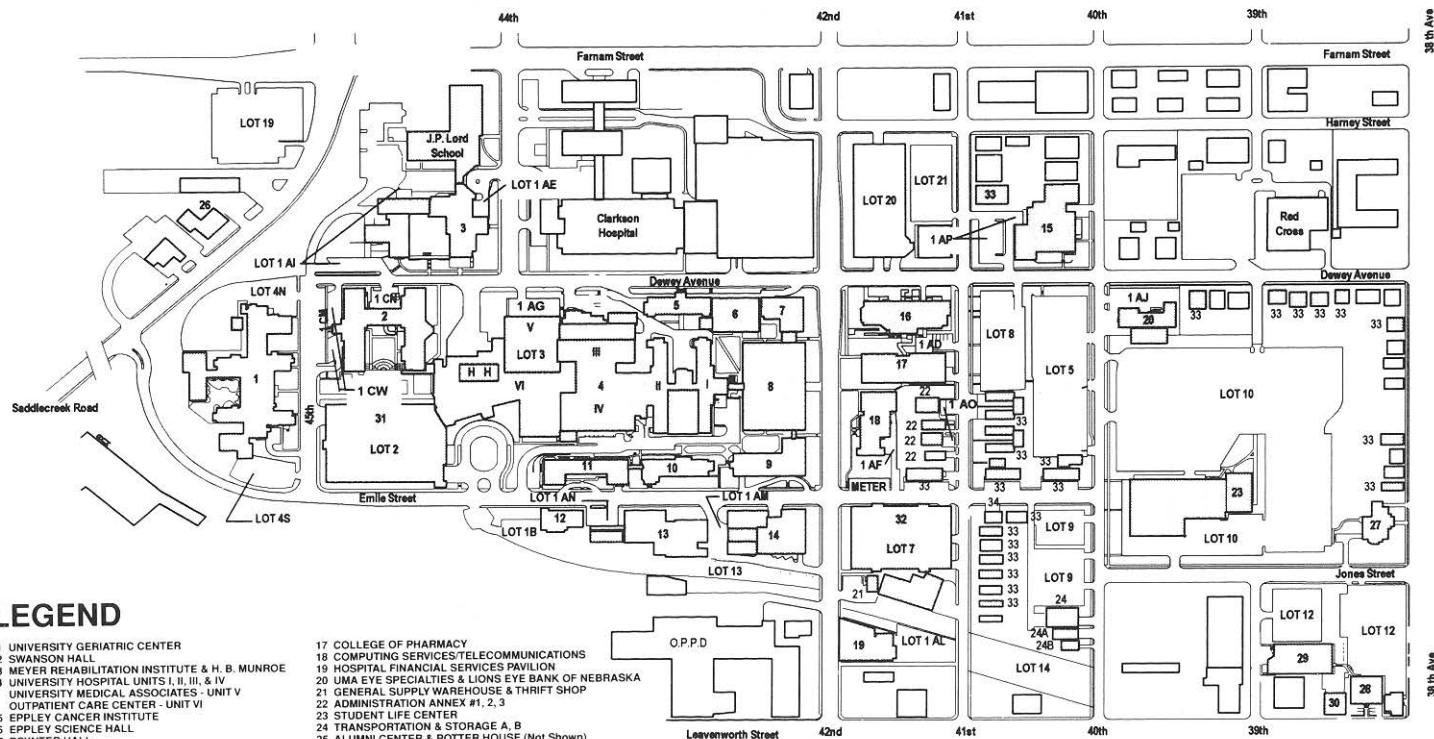
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- Zlomke, Wayne L.**, B.A. 1952 Nebraska Wesleyan University, M.D. 1956 University of Nebraska College of Medicine, Clinical Instructor, Family Medicine
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- Zumpano, Bernard**, A.B. 1963 Creighton University, M.D. 1968 Creighton University, Clinical Assistant Professor, Surgery
- Zweiback, Eugene M.**, B.A. 1959 Princeton University, M.D. 1963 Columbia University, Clinical Assistant Professor, Surgery



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# UNIVERSITY OF NEBRASKA MEDICAL CENTER



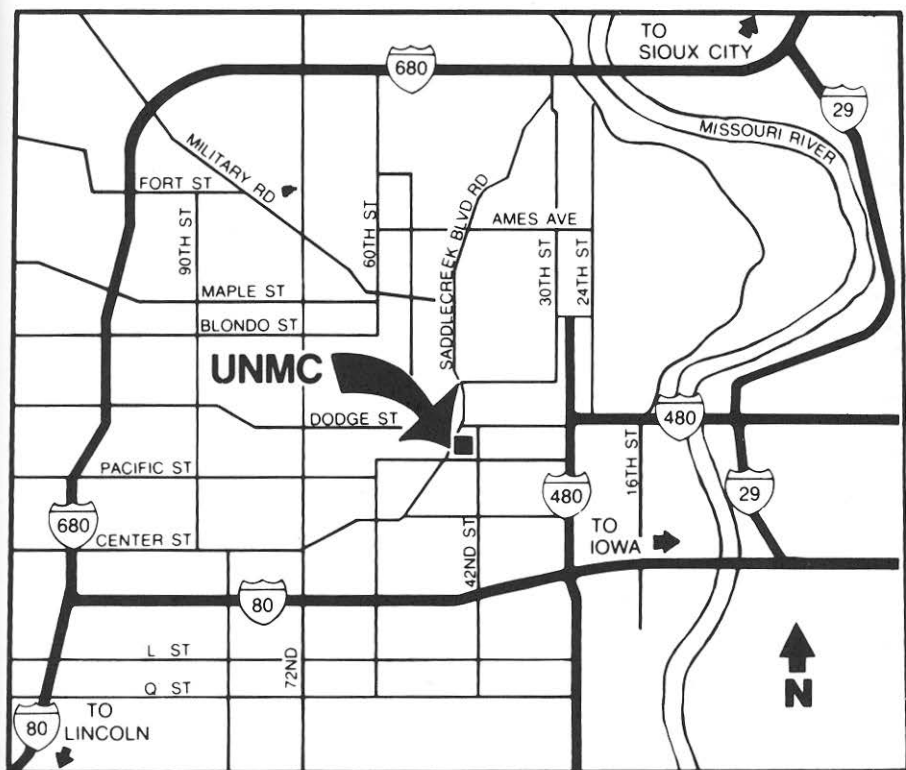
## LEGEND

- 1 UNIVERSITY GERIATRIC CENTER
- 2 SWANSON HALL
- 3 MEYER REHABILITATION INSTITUTE & H. B. MUNROE
- 4 UNIVERSITY HOSPITAL UNITS I, II, III, & IV
- 5 UNIVERSITY MEDICAL ASSOCIATES - UNIT VI
- 6 EPPLEY CANCER INSTITUTE
- 7 EPPLEY SCIENCE HALL
- 8 PONTNER HALL
- 9 WITTSOM HALL & MCGOOGAN LIBRARY
- 10 SOUTH HALL
- 11 CONKLING HALL
- 12 SPECIALTY SERVICES PAVILION
- 13 SHACKLEFORD HALL
- 14 CENTRAL UTILITIES
- 15 SERVICE BUILDING & LAUNDRY
- 16 ADMINISTRATION CENTER
- 17 COLLEGE OF NURSING
- 18 COLLEGE OF PHARMACY
- 19 COMPUTING SERVICES/TELECOMMUNICATIONS
- 20 HOSPITAL FINANCIAL SERVICES PAVILION
- 21 UMA EYE SPECIALTIES & LIONS EYE BANK OF NEBRASKA
- 22 GENERAL SUPPLY WAREHOUSE & THRIFT SHOP
- 23 ADMINISTRATION ANNEX #1, 2, 3
- 24 STUDENT LIFE CENTER
- 25 TRANSPORTATION & STORAGE A, B
- 26 ALUMNI CENTER & POTTER HOUSE (Not Shown)
- 27 412 BUILDING
- 28 RONALD McDONALD HOUSE
- 29 ADMINISTRATION ANNEX #4
- 30 ADMINISTRATION ANNEX #5
- 31 ADMINISTRATION ANNEX #6
- 32 PARKING STRUCTURE - LOT 2
- 33 PARKING STRUCTURE - LOT 7
- 34 RENTAL PROPERTY
- 35 SECURITY



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In addition to individual College bulletins, the following publication offers pertinent information for students:

"UNMC Student Handbook"

– a reference guide for the students enrolled at the Medical Center

These may be obtained through Student Service.

For additional information, please write:

**OFFICE OF ACADEMIC AFFAIRS**

**College of Medicine**

**or**

**OFFICE OF ACADEMIC RECORDS**

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