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To Present and Future Physicians

Many people speak with pessimism regarding the current situation in American medicine. While I do not agree with the gloomy picture painted by these individuals, I do recognize and understand the basis for these feelings: A supposed physician “glut”, loss of respect for the medical profession, increasing bureaucracy, decreasing financial reward, etc.

I think it is important to remember, however, that ministering to the bodies and minds of people, i.e., the medical profession, along with ministering to their souls (the clergy), is generally recognized as the most respected, and highest, “calling”. I also believe that there can never be too many good physicians.

The responsibility of the University of Nebraska College of Medicine is to assist in the provision of health care for Nebraska through the education of health professionals.

The University of Nebraska is dedicated to preparing men and women in the health professions. Candidates of moral integrity and a willingness to work, who are well-suited for post-collegiate academic study, can apply for admission to the College of Medicine. Reasonable academic competence is necessary and high motivation is of even greater importance.

The purpose of the College of Medicine is to provide an organized high quality program of health education, service and research addressed to the needs of the citizens of the State of Nebraska.

The goals of the College of Medicine are as follows:

1. To provide high quality education in humanistic and scientific medicine for those students who aspire to the health professions in Nebraska, specifically medical students, house officers, allied health professions students, graduate college students, and continuing education students;

2. To encourage the recruitment and retention of qualified health professionals in the State of Nebraska;

3. To develop and maintain a sharing of educational resources with communities and health professionals in the State of Nebraska;

4. To provide high quality primary care programs for the citizens of the State of Nebraska consistent with educational programmatic needs and in concert with other health institutions, agencies and professionals;

5. To provide high quality tertiary care programs relevant to education and research and responsive to the needs of the citizens of the State of Nebraska, consistent with responsible regional and state health planning;

6. To develop and foster both clinical and basic health science research in the pursuit of scientific excellence and human needs;

7. To seek and develop resources that will enable the College of Medicine to respond to current and future educational, service and research needs and opportunities;
8. To provide appropriate financial, professional and intellectual rewards to remain competitive in order to attract and retain highly qualified faculty and staff;

9. To participate in the formulation of health policy at local, state, regional, and national levels in support of high quality health care for the citizens of the State of Nebraska.

I hope you find the bulletin of interest. Feel free to call or write this office for any additional information.

Robert H. Waldman, M.D.
Dean
**GOVERNANCE OF THE UNIVERSITY OF NEBRASKA**

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<th>The Board of Regents</th>
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<td>Donald S. Blank, D.D.S. McCook</td>
<td>January 1, 1993</td>
</tr>
<tr>
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<td>January 1, 1991</td>
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<td>Kermit Hansen, Elkhorn</td>
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<td>Nancy Hoch, Nebraska City</td>
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<td>Robert R. Koefoot, M.D., Grand Island</td>
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<td>James H. Moylan, Omaha, Chairman</td>
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William F. Swanson, Lincoln, Corporation Secretary

**University of Nebraska Central Administration**

Ronald W. Roskens, Ph.D., President  
Lee B. Jones, Ph.D., Executive Vice President and Provost  
Alan Seagren, Ed.D., Vice President for Administration  
William F. Swanson, B.S., Vice President for Governmental Relations

**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  
Robert H. Waldman, Dean, College of Medicine  
Clarence T. Ueda, Ph.D., Dean, College of Pharmacy  
Rosalee C. Yeaworth, Ph.D., Dean, College of Nursing  
William O. Berndt, Ph.D., Dean, Graduate Studies and Research  
Bruce A. Buehler, M.D., Director, Meyer Children's Rehabilitation Institute  
Edward Bresnick, Ph.D., Director, Eugene C. Eppley Institute  
Brent R. Stevenson, B.S., Director, University Hospital  
William F. Gust, M.D., Director, Center for Continuing Education  
Delmer D. Lee, B.S., Associate Vice Chancellor, Business and Finance  
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Gardner Van Dyke, Ph.D., Director, Academic Records/Special Programs  
Robert D. Bartee, Executive Assistant to the Chancellor  
Reba A. Benschoter, Ph.D., Director, Biomedical Communications  
Nancy N. Woeffl, Ph.D., Library of Medicine  
Robert T. Fredlund, B.A., Director, Financial Aids
COLLEGE OF MEDICINE

Robert H. Waldman, M.D., Dean, College of Medicine
Stanley R. Shane, M.D., Associate Dean, College of Medicine
Robert S. Wigton, M.D., Associate Dean, Academic Affairs
Charles A. Dobry, M.D., Associate Dean, Clinical Affairs
Irene Klintberg, Ph.D., Associate Dean, Administration
John J. Matoole, M.D., Associate Dean, Veterans' Affairs
Frederick F. Paustian, M.D., Associate Dean, Graduate and Continuing Medical Education
Reba A. Benschoter, Ph.D., Associate Dean, Allied Health Professions
Robert S. Wigton, M.D., Associate Dean, Graduate Medical Education
Leon B. Ellwein, Ph.D., Associate Dean, Research and Development
Gerald F. Moore, M.D., Assistant Dean, Curriculum
J. Calvin Davis, III, M.D., Assistant Dean, Admissions and Students

Department Chairmen

Anatomy
William K. Metcalf, M.D.

Anesthesiology
Dennis F. Landers, M.D. (Interim)

Biochemistry
Edward Bresnick, Ph.D.

Family Practice
Robert L. Bass, M.D.

Internal Medicine
Michael F. Sorrell, M.D.

Neurology (Division of Internal Medicine)
Ronald F. Pfeiffer, M.D.

Obstetrics and Gynecology
McClure Smith, M.D.

Ophthalmology
Raymond E. Records, M.D.

Orthopaedic Surgery and Rehabilitation
John F. Connolly, M.D.

Otolaryngology
Anthony J. Yonkers, M.D.

Pathology and Microbiology
David T. Purtilo, M.D.

Pediatrics
Jaime L. Frias, M.D.

Pharmacology
David B. Bylund, Ph.D.

Physiology and Biophysics
Francis J. Clark, Ph.D. (Interim)

Preventive and Societal Medicine
Andrew L. Jameton, Ph.D. (Interim)

Psychiatry
Frank Menolascino, M.D.

Radiology
Thomas J. Imray, M.D.

Surgery
Layton F. Rikkers, M.D.

Neurosurgery (Division of Surgery)
Lyal G. Leibrock, M.D.

Urology (Division of Surgery)
Rodney Taylor, M.D.
THE UNIVERSITY OF NEBRASKA

The University of Nebraska comprises three major campuses: The University of Nebraska Medical Center (UNMC), the University of Nebraska-Lincoln (UNL), and the University of Nebraska at Omaha (UNO). The chancellor for each campus reports to the university-wide president. Governance of the university rests in an eleven-member Board of Regents who insure that the University meets its goals of quality instruction, research, and public service for the citizens of the state.

The College of Medicine offers an educational program leading to the degree of Doctor of Medicine; residencies and fellowships in the clinical specialties (Graduate Medical Education); and offers a wide variety of educational opportunities for physicians in practice (Continuing Medical Education). The college conducts patient care, research, and community service programs as a major unit of the Medical Center.

THE UNIVERSITY OF NEBRASKA MEDICAL CENTER

In recent years, this modern medical center has become a major health resource for the State of Nebraska and surrounding areas. The Center includes the College of Medicine, College of Nursing, College of Pharmacy, the Graduate College, University Psychiatric Services, the C. Louis Meyer Children's Rehabilitation Institute, the Eppley Institute for Research in Cancer and Allied Diseases, and University Hospital. A School of Allied Health is part of the College of Medicine.

COLLEGE OF MEDICINE

Undergraduate Medical Education

The College of Medicine offers a fully accredited program leading to the degree of Doctor of Medicine. Students who have completed the first two years in medicine without having previously received a Bachelor's degree may also receive a degree of Bachelor of Science in Medicine.

Graduate Medical Education

Medical education is a continuing process that begins in medical school and continues through the professional life of the physician. There are many possible career choices in medicine. Graduating seniors from UNMC participate in the National Resident Matching Program to obtain first year residency positions throughout the United States.

The College of Medicine offers residency programs in Anesthesiology, Child Psychiatry, Family Practice, Internal Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Oral Surgery, Orthopaedic Surgery, Otolaryngology, Pathology, Pediatrics, Psychiatry, Radiology, Surgery, and Urology. There are over 255 total positions including 65 in the first year. These programs are integrated with affiliated community hospitals to provide a broad experience in graduate medical education.
Continuing Medical Education

Continuing education is offered through a variety of approaches to practicing physicians, nurses, and those in the allied health professions. Approximately 125 on-campus courses are offered each year by the University of Nebraska Medical Center. Located within the Eppley Hall of Science, the Center is uniquely designed to foster adult learning. 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 circuit courses and two-way amplified 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, associate degree, masters certificate, post-baccalaureate certificate and certificate programs:

- Biomedical Communications Education
  - Post-baccalaureate certificate
- Medical Nutrition Education
  - Post-baccalaureate certificate
- Medical Technology
  - Bachelor of Science
- Nuclear Medicine Technology
  - Associate of Science
- Nuclear Medicine Technology
  - Bachelor of Science
- Physical Therapy Education
  - Master of Physical Therapy
- Physician Assistant Education
  - Bachelor of Science
- Radiation Therapy Technology
  - Certificate
- Radiologic Technology
  - Associate of Science
- Radiologic Technology
  - Bachelor of Science

The degrees of Master of Science in Pathology for medical technologists and a post-baccalaureate certificate in Biomedical Communications are also available through the Graduate College. Bulletins for these individual programs may be obtained upon request.

Graduate College

The Graduate College of the University of Nebraska is a system-wide College with programs on each of the three University of Nebraska campuses. Programs at the Medical Center campus are as follows:

The degrees of Master of Science and Doctor of Philosophy are offered by five departments of the College of Medicine: Anatomy, Biochemistry, Medical Microbiology, Pharmacology, and Physiology and Biophysics. The Department of Pathology offers an independent major leading to the degree of Master of Science. Also, there is a Medical Sciences Interdepartmental Area Program. This program allows the student to earn the degree of Master of Science or the Doctor of Philosophy degree with concentration in the general medical sciences. The program is available through most departments of the College of Medicine (Anatomy, Anesthesiology, Biochemistry, Internal Medicine, Medical Microbiology, Obstetrics and Gynecology, Orthopaedic Surgery and Rehabilitation, Otolaryngology, Pathology, Pediatrics, Radiology, and Surgery); one department in the College of Dentistry; and three departments in the College of Pharmacy.

For information about the entrance requirements and the course of study available, please consult the Graduate Studies Bulletin.
GENERAL INFORMATION

History
The Legislative Act of February 15, 1869 that created the University of Nebraska included provision for a college of medicine. In 1883, the University of Nebraska College of Medicine was established at Lincoln, but closed when the legislature withdrew its support in 1887. The Omaha Medical College, incorporated at Omaha 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 four years have been taught in Omaha.

Standing
The College of Medicine meets all requirements of the most exacting state examining and licensing boards. It is a member of the Association of American Medical Colleges and is accredited by the Liaison Committee on Medical Education representing the American Medical Association and the Association of American Medical Colleges.

The College of Medicine operates a fully accredited program leading to the degree of Doctor of Medicine. University Hospital also provides residency programs in all major medical specialties.
Recently, several new programs have been added to provide better health services for the citizens of the State. A major initiative in geriatric care at the Medical Center addresses the needs of the elderly and provides training for students in this increasingly important area. The Swanson Foundation Center for Nutrition has been established to promote nutrition teaching and to conduct research in this important field. The Medical Center has developed a very successful eating disorders program with comprehensive medical and mental care. The bone marrow transplant program has become a national leader in patient care and research and the liver transplant program draws patients from all over the world. The SkyMed helicopter transport service speeds transfer of acutely ill patients from distances up to 150 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 90% of the graduates of the College of Medicine obtain one of their top three choices of residency programs nationwide.
LEARNING FACILITIES

Clinical Facilities

University Hospital — The University Hospital has 324 patient beds and 52 bassinets. An additional 95 beds are located at the University Psychiatric Services.

University Hospital operates extensive outpatient clinic services in the University clinic building and in the north wing of the University Hospital. 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 C. Louis Meyer Children’s Rehabilitation Institute, also located on the Medical Center Campus on 44th Street, provides specialized diagnostic and rehabilitative services for the handicapped child. University Hospital operates the Family Health Center, an outreach clinic in South Omaha, and the Harvey Oaks Clinic.

Affiliated Hospitals

To enhance its educational opportunities, the College has affiliated with community hospitals throughout the state. In Omaha, the Omaha Veterans Administration Hospital is fully integrated into the educational programs of the College of Medicine including two-way, closed-circuit television communication. Six private hospitals also are affiliated with the College of Medicine: Childrens Memorial Hospital, Bishop Clarkson Memorial Hospital, Immanuel Hospital, Nebraska Methodist Hospital, Salvation Army Booth Hospital, and Lutheran General Hospital.

Library of Medicine

The Leon S. McGoogan Library of Medicine, located in the University of Nebraska Medical Center, is one of the nation’s major health sciences libraries. It is housed in a 64,800 square-foot edifice situated above Wittson Hall, a location designed to reflect the concept of the library as a catalyzing agent for all activities on the campus. The collection numbers about 180,000 volumes, with a current journal titles list of about 3,300. Multi-media materials for self-instruction in curricular fields are also collected and made available in the Learning Resources Center. The library seats 450 readers in a variety of individual and group seating arrangements.

Reference services include over 100 on-line computer-based bibliographic services such as MEDLINE (MEDLARS on-line) and CA SEARCH (Chemical Abstracts on-line). The library provides instruction in bibliographic searching of information retrieval. The library is part of a
national network designed to facilitate biomedical information transfer, and has been designated by the National Library of Medicine as the management headquarters for the seven-state Midcontinental Regional Medical Library Program. This status offers unlimited opportunity for the pursuit of research and study.

In addition to its regular functions, the library maintains a rare book collection and houses the Orr Collection of the American College of Surgeons. It also collects special materials on the history of medicine in Nebraska. Incorporated within the Library of Medicine are 2,000 volumes of the Omaha Douglas County Medical Society, periodic transactions of the Nebraska State Medical Association, and several outstanding medical libraries of former practitioners of the state.

Laboratory Facilities

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

Museum

The pathological museum of the College of Medicine in Wittson Hall contains about 3,500 specimens. Nearly every variety of pathological lesion is represented and the constant addition of fresh material from the autopsies performed continually adds to its interest. In addition to the gross specimens are thousands of microscopic sections and a large collection of wax reproductions of various lesions. The museum is an important and necessary adjunct to the teaching of pathology and of clinical medicine.

ADMISSIONS

Educational Requirements

Adequate grounding in the humanities and social sciences, as well as the natural sciences, is sought in 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.
Medical education is viewed as a continuum. College, professional college, and then post-graduate education are all one training period. Hence, college courses which essentially will be repeated in professional school are considered of limited and short-term value. Instead, students are well advised to broaden their horizons rather than narrowly focus their efforts in the natural sciences.

High School
A strong college preparatory course is recommended. Students should consider scheduling two years in a foreign language, four years of English, and 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 college is required. However, to provide an opportunity for in-depth study, the completion of a college major or undergraduate degree is strongly recommended. MCAT scores from tests taken prior to 1977 will not be accepted.

The undergraduate program must include the following:

<table>
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<tr>
<td>Biology (With Lab)</td>
<td>1 year</td>
</tr>
<tr>
<td>Inorganic Chemistry (With Lab)</td>
<td>1 year</td>
</tr>
<tr>
<td>Organic Chemistry (With Lab)</td>
<td>1 year</td>
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<tr>
<td>Physics (With Lab)</td>
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<tr>
<td>Humanities</td>
<td>2 years</td>
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<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
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In addition to 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.

Hours awarded for CLEP Subject Examinations must be verified by submission of official CLEP Score Reports. Scores must meet UNMC requirements for credit - usually the 50th percentile. If verified, the hours may be used to meet the “90 hour general requirement” but are not acceptable for application to the College of Medicine group requirements.

The Admissions Committee of the College of Medicine will not accept credit towards the required courses for hours graded Pass-Fail 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, 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 minority communities in the state. Because research data show candidates emanating from those areas are likely to return, the Admissions Committee gives particular attention to under-represented minority applicants and to applicants from counties with total population under 25,000.

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

The following statement represents the guidelines regarding technical standards under which the Admissions Committee operates:

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.

The Admissions Committee considers, without bias, all applicants who meet these technical standards.

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, 42nd and Dewey, Omaha, Nebraska 68105-1065.

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. Deadline for receipt of applications by AMCAS will be November 15, 1988 for 1989 admission. 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.

A personal interview is required for completion of the application. Interview sessions are held on the Medical Center campus and arrangements should be made through the Academic Affairs Office of the College of Medicine. The purpose of the interview is to assess personal attributes and the nature of the candidate's motivation.

Any applicant who has previously applied for admission must re-apply in the regular manner if consideration for a subsequent year is desired.

Admissions Committee

The Admissions Committee meets weekly from early January until late March. Notices of acceptance, rejection, or "hold" are sent weekly to those candidates who were considered. Applicants on hold are given reconsideration in March. The remaining places are filled and an alternate list is developed from among these applicants.

Advanced Standing

If a vacancy exists, application for admission with advanced standing will be considered from students attending medical schools accredited by the Liaison Committee on Medical Education or from Nebraska residents who attend a foreign medical school. In the case of the latter, performance on the MSKP examination will constitute an important aspect of the evaluation. Applicants with strong MSKP scores must pass the college's comprehensive examinations in the appropriate basic science disciplines. In addition, undergraduate grades for pre-medical curriculum and personal interviews will be required prior to final consideration for transfer. Applications may be obtained from the Office of Academic Records, University of Nebraska Medical Center, Omaha, Nebraska 68105-1065.

An application fee of $10 for residents and $25 for non-residents is required. The fee is not applicable to tuition if the student is accepted for admission. It is not refundable. 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 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.

Students who have been dismissed from 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**

Students who reside or whose parents reside in a state other than Nebraska, or who have 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, 3018 Conkling Hall, University of Nebraska Medical Center, 42nd and Dewey Avenue, Omaha, Nebraska 68105-1065.

**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 30 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, 3018 Conkling Hall, 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 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.
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. In designing the curriculum, the faculty has ensured the student develops all the understanding, clinical skills and knowledge needed for residency training and practice.

The faculty want to make certain the Nebraska graduate has skills in problem solving and clinical reasoning, extensive knowledge of both the biomedical and psychosocial sciences and has developed the skills to be a lifelong learner 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. During this time students begin to learn basic clinical skills and reasoning. In the third and fourth years students learn to apply their knowledge on the hospital wards and clinical offices. Under faculty guidance students develop their clinical diagnostic and management skills. They learn to make decisions about clinical tests and therapies, caring for patients and the elements of the art of medicine. During the third year, the student takes clinical clerkships in internal medicine, obstetrics and gynecology, pediatrics, psychiatry, and surgery. In the fourth year, students take a two month preceptorship in family practice as well as a structured selection of clinical and basic science experiences. To qualify for graduation, each student must show the faculty that he or she has acquired the knowledge, skills, and attitudes necessary for successful entry into the residency (graduate) phase of medical education.

The Curriculum Committee, with student representation, is responsible for curricular change and evaluation. Written educational goals and objectives are required of all course or clerkship directors.

Auditing Courses
A course may be audited with the permission of the instructor and the dean of the college in which the course is offered. The student must be academically qualified and there must be adequate space and facilities for the student to audit a course. Auditing is not available for clinical clerkships. No academic credit is given for auditing a course: You can get application forms for auditing courses from the Department of Academic Records, Room 3020, Conkling Hall. This form must be completed by the sixth day of the current term. The fee for auditing a course is one-half of the full course fee.

Research Opportunities for Students
There are many opportunities for medical students to participate in the exciting and important research projects at the Medical Center. Often students will take advantage of the research fellowships offered for the summer after the first year and then confine their investigation throughout the remaining years. Others take research electives during the clinical phase of the curriculum. We encourage all students to participate in research activity so they can experience the excitement and
challenge of biomedical research at the frontiers of medical knowledge and practice.

1. **Student Research Fellowships**
   Many student research fellowships are available for students who wish to commit a block of time to pursuing a research project. The Office of Academic Affairs 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 fellowships at other institutions.

2. **Research Honors Program**
   All students who maintain at least a “B” average are eligible to apply for the Research Honors Program. 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. Information about this program can be obtained from the Office of Academic Affairs.

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. Program**
   Many students want a deeper understanding of basic medical sciences and a solid grounding in research techniques. They may wish to pursue a career in academic medicine or medically oriented research.

   The M.D./Ph.D. program allows students to obtain the benefits of working towards both degrees at the same time. Students usually complete both programs in a much shorter time than earning both degrees in sequence. Students in the M.D./Ph.D. program have much more flexibility in arranging their schedule. They work closely with faculty members in several departments. They are able to see how their research fits into the clinical medicine they are learning on the wards.

   Most students in the combined program enter the medical curriculum and use the first year of enrollment to explore possible research fields and get to know the faculty. The summer after the first year is spent in that laboratory on a preliminary research project. They may continue with the research on a limited basis through the second year of the medical curriculum and then take a leave from the medical curriculum to pursue their graduate work full-time for one to two years. If the graduate course work and dissertation cannot be completed in that period, elective time in the fourth medical year may be used to complete the project or write the dissertation.

   Students who have selected a field for graduate study before entrance may wish to apply for simultaneous acceptance to graduate and medical programs and schedule work in each on a part-time basis.

   Please contact Dr. Robert S. Wigton, Associate Dean for Academic Affairs, for additional information.
UNIVERSITY OF NEBRASKA COLLEGE OF MEDICINE
ACADEMIC CALENDAR
1989-1990

SEMESTERS
First Semester
Second Semester (M1-M2)
Second Semester (M4)
Second Semester (M3)
May Term (M1-M2)

August 28, 1989 - December 20, 1989
January 8, 1990 - May 6, 1990
January 2, 1990 - April 29, 1990
January 2, 1990 - June 24, 1990
May 7, 1990 - May 27, 1990

SENIOR ELECTIVE PERIODS
July
August
September
October
November
December
January
February
March
April
Commencement

July 3, 1989 - July 30, 1989
July 31, 1989 - August 27, 1989
August 28, 1989 - September 24, 1989
September 25, 1989 - October 22, 1989
October 23, 1989 - November 19, 1989
November 20, 1989 - December 15, 1989
January 2, 1990 - January 28, 1990
January 29, 1990 - February 25, 1990
February 26, 1990 - March 25, 1990
April 2, 1990 - April 29, 1990
May 12, 1990 (Saturday)

RECESSES AND HOLIDAYS
Independence Day
July 4, 1989
Labor Day
September 4, 1989
Thanksgiving (Clinical)
November 23, 1989
Thanksgiving (Pre-Clinical)
November 23-24, 1989
Winter Recess (Clinical)
December 16, 1989-January 1, 1990
Winter Recess (Pre-Clinical)
December 21, 1989-January 7, 1990
Spring Recess (Clinical)
March 26, 1990 - April 1, 1990
Spring Recess (Pre-Clinical)
April 1, 1990 - April 8, 1990
Memorial Day
May 28, 1990
Summer Recess (Clinical)
June 25, 1990 - July 1, 1990

SPECIAL EVENTS
Freshman Orientation
August 21-25, 1989
FIRST DAY OF CLASS (M1 & M2)
August 28, 1989
Comprehensive Exams (M2)
May 25-26, 1990
Comprehensive Exams (M1)
June 4-5, 1990
Honors Convocation (M4)
May 11, 1990 (Friday)
Commencement (M4)
May 12, 1990 (Saturday)
National Board Exams Part I
June 13-14/Sept. 6-7, 1989
June 12-13/Sept. 5-6, 1990
National Board Exams Part II
April 4-5/Sept. 26-27, 1989
April 3-4/Sept. 25-26, 1990
Conjoint Exams (M1s)
Sept. 23, Oct. 21, Nov. 18, Dec. 20,
Feb. 3, Mar. 3, Mar. 31, May 5
Conjoint Exams (M2s)
Sep. 23, Nov. 4, Dec. 20,
Feb. 3, Mar. 17, May 5
### COURSE DESIGNATIONS

<table>
<thead>
<tr>
<th>Year, Semester</th>
<th>Dept/Course Number</th>
<th>Credit Hours</th>
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<tr>
<td>Human Gross Anatomy I</td>
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<td>General Pathology I</td>
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<td>Medical Pharmacology I</td>
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<td>Intro. Clinical Medicine III</td>
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<td>Basic Req. Clk-Pediatrics</td>
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<tr>
<td>Radiology Elective</td>
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**Family Practice Preceptorship** | FAPR/705 | 8 |

**Entire Senior Year** = 10 months (July - April)

One month vacation allowed during senior year.
Each senior elective is four (4) credit hours.
## CURRICULUM
### YEAR 1 — FIRST SEMESTER

<table>
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**Explanation:**
- **ANAT**: Anatomy Courses
- **BIOC**: Biochemistry

## YEAR 1 — SECOND SEMESTER (FIRST HALF)

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**Explanation:**
- **ANAT**: Anatomy Courses
- **BSCI**: Behavioral Sciences
- **HGEN**: Human Genetics
- **PHYS**: Physiology
### Example Only

#### Curricular Year 1 — Second Semester (Second Half)

<table>
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**Explanation:**
- **ANAT**: Anatomy Courses
- **BSCI**: Behavioral Sciences
- **HGEN**: Human Genetics
- **MHUM**: Medical Humanities
- **PSM**: Preventive and Societal Medicine
- **PHYS**: Physiology

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#### Example Only

#### First Year — May Term

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**Explanation:**
- **CNUT**: Clinical Nutrition

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#### Example Only

#### Second Year — First Semester

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**Explanation:**
- **CMED**: Clinical Medicine
- **CPATH**: Clinical Pathology
- **MICRO**: Microbiology
- **PATH**: General Pathology
- **PHAR**: Pharmacology
EVALUATION OF STUDENT PERFORMANCE

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 once every four weeks. Examination time is given to each course in proportion to the hours of credit assigned. 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 Associate Dean for Academic Affairs.

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

Comprehensive Examinations
In order to progress from the first to second year and from the second to third years, students must pass comprehensive examinations in each of the courses taken. Comprehensive examinations in anatomy, physiology, biochemistry, and behavioral science are given during the last week of the first year. Similar comprehensive examinations in microbiology, pathology, and pharmacology are given at the end of the second year.

Grading System
The grading system for all classes is as follows:
A — Superior performance
B — Very Satisfactory performance
C — Satisfactory performance
D — Marginal performance
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.

Procedures have been developed in accordance with the Bylaws of the Board of Regents to handle student appeals of academic evaluation. Students who believe that evaluation of course work or clerkship performance has been prejudiced or capricious should consult with the Associate Dean for Academic Affairs who will provide them with the procedural guidelines, or they may consult the UNMC Student Handbook, which summarizes the procedure. A written appeal must be received within fifteen days after formal notification 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 student's academic performance. Written or oral examinations, personal observations or other methods may be used in making assessments. Each student's overall performance is reviewed at the end of each semester by the Scholastic Evaluation Committee. The committee recommends to the Dean whether the 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” average for each academic year and to pass the appropriate comprehensive examinations in order to be promoted. A failing grade in a course usually requires repetition of the course and only grades of “C” or better are acceptable achievement for courses being repeated. Grades of “D”, particularly when there are other indications of poor performance, may require repetition of courses. Unless there are extenuating circumstances, students must complete the medical curriculum in 5 years of enrollment.

Right of Appeal

A student who is dismissed may request review of the situation by an Appeal Board. The Appeal Board is appointed by the dean. It 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 action are included in the “Guidelines for the Scholastic Evaluation Committee.” Care will be taken to give full respect to the rights of students when decisions are made about them.

REQUIREMENTS FOR GRADUATION

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 departmental examinations, have received grades of “A”, “B”, “C”, or “D” in all courses, and obtained at least a “C” average.
5. Have successfully passed the comprehensive examinations (as described in the section on comprehensive examinations).
6. Have discharged all indebtedness to the University of Nebraska. The Scholastic Evaluation Committee may select students from the graduating class who have made outstanding contributions to medical science and recommend them for the degrees of Doctor of Medicine with Distinction, High Distinction or Highest Distinction.
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.

Degree of Bachelor of Science in Medicine

Students presenting premedical college credits of high standard and who have satisfactorily completed all courses of the first two years in medicine, but who have not fulfilled the requirements for the degree of Bachelor of Science or Bachelor of Arts in a College of Arts and Sciences, may become candidates for the degree of Bachelor of Science in Medicine.

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 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 UNL or UNO 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 and December, unless excused by the dean of the appropriate college concerned. Those graduating at other times will receive their diploma at the time the requirements are fulfilled and may participate in the next formal commencement.

Alumni Association

Alumni of the University of Nebraska College of Medicine maintain an active organization with headquarters at the College of Medicine. The Alumni Association sponsors class reunions and social functions at various national meetings attended by graduates of the College of Medicine. The Alumni maintain several funds including a student loan and scholarship fund and a library endowment fund. Six full-tuition scholarships are paid by the Alumni Association.

GENERAL POLICIES

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 Dean’s 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 the University of Nebraska Hospital.

Student Records

The academic record of a student is confidential and an official transcript of such 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 student’s performance in the medical curriculum; grade sheets; any entries about him or her in the minutes of the Scholastic Evaluation Committee; and finally, the 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 or Withdrawal

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, Dr. J. Calvin Davis, Ill or the Associate Dean for Academic Affairs, Dr. Robert Wigton. 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.
Students who feel the necessity to withdraw from enrollment are asked to consult with either Dr. Wigton or Dr. Davis before taking action.

THE STUDENT BODY AND STUDENT ORGANIZATIONS

Currently, the first year class has 120 positions with 500 students in all four classes. Roughly one-third of the students are women. The attrition rate is low and is often attributable to illness or loss of motivation as it is to academic failure. The student body has representation upon 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 student 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 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 a large number of 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 minority 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-MSC) 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-MSC, 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 NAFP 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.

FEES AND EXPENSES

Expenses of medical students include “educational expenses” and also “living expenses.”
In 1988-89, a Nebraska resident enrolled in medicine (pre-clinical) will pay $5,896 in tuition for nine months, $357 in fees, and approximately $922 for equipment and books.
Juniors and seniors in medicine attend twelve months and, if Nebraska residents, will pay $6,738 in tuition, $394 in fees, and approximately $542 for equipment and books.
"Living expenses" are the major cost of being a student and cover room, board, transportation, and personal needs. Estimates are based principally on Department of Labor "national average consumption budget standards at a moderate level" and are as follows: nine months for single students ($5,850), married student ($9,000), and married student with one child ($10,350); twelve months for a single student ($7,800), married student ($12,000), and married student with one child ($13,800).

Required Fees in 1988-89 Include:

Student Health Service fee (outpatient coverage) per semester . $ 56.00
Student Health Service fee (inpatient coverage) per semester (unless waived) 124.00
Medical Center Student Senate fee, per semester 2.50
Service charge for late payment of tuition 20.00
Service charge for issuance of "bad" check 8.00
Add/drop course 5.00
Anatomy laboratory use fee 115.00
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 (1 year) 30.00
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. However, students may find it advantageous to provide their own microscope for full-time use. If so, the microscope 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.
FINANCIAL ASSISTANCE

Financial aid and student loan programs are available to all students. These programs operate on the premise that after students and parents have met as much of the educational and related costs as they can, UNMC will supplement family contributions from its aid sources and help students get aid from outside sources.

All financial aid programs administered by UNMC require annual application. Students do not need to apply for a specific scholarship or award since they are evaluated in terms of their eligibility for all forms of assistance. When financial need is a consideration, in applying for a scholarship, students and parents must complete a financial statement (GAPS/FAS/FAF). Application forms, instructions, and a Financial Aid Brochure are mailed to all students accepted for enrollment in the College of Medicine. Financial statements for need-based programs are forwarded upon request.

The deadline for applications for scholarships and financial aid is March 1. Students receiving acceptances near or after March 1 are given a 30-day period in which to complete financial aid applications. Students are notified of financial aid awards as early as possible before the start of each school year.

There are three basic types of financial aid available through UNMC: scholarships or grants, loans and student employment on a limited basis. Detailed information about the various sources of financial aid and estimated expenses is available upon request from the Office of Financial Aid.

Prizes and Awards

A roster of the prizes and awards designated for outstanding performance in some basic courses and some clerkships, as well as in community service, is maintained by the Associate Dean for Academic Affairs. Donors include academic departments of the College, alumni, and several commercial firms. Selection of awardees is made by the appropriate academic departments.

STUDENT HEALTH SERVICES

The Student-Employee Health Service is directed by Dr. Robert Bass, Chairman of the Department of Family Practice. The 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 Student Services Office.
The Office of Minority Student 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 Minority Student 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.
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 Minority Student 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:
Minority Student Affairs
UNMC
42nd and Dewey Avenue
Omaha, NE 68105-1065
(402) 559-4437
ANATOMY

PROFESSORS Binhammer, Crouse, Earle, Gardner, N.F. Metcalf, W.K. Metcalf (Chairman), Sharp; ASSOCIATE PROFESSORS Prentice, Rodriguez-Sierra, Stinson, Todd III, Turpen; ASSISTANT PROFESSORS Eccleston-Joyner, Joshi, Perry, EMERITUS Holyoke, Latta.

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 courses presenting fundamentals of universal importance. Opportunity is provided for additional study through a selection of elective courses.

ANATOMY — ANAT

510 Human Gross Anatomy I (4 s h cr) W. Metcalf (810G)
The course covers the dissection of the upper extremity, head and neck, and thorax.

512 Human Neuroanatomy (2 s h cr) Earle (812G)
This course provides a study of the neuronal organization of the nervous system and how the inter-neuronal relationships serve as a basis to explain the function of the sensory and motor systems. The medical aspects of the structural and functional organization are demonstrated from clinical case material.

513 Human Clinical Embryology I (2 s h cr) W. Metcalf (813G)
A course specially designed to meet the needs of medical and paramedical students destined for clinical practice. Only those features of morphological embryology which are of clinical importance will be stressed. It includes embryogenesis, placentation and development of the nervous system. Discussion of abnormalities of clinical significance are also presented.

520 Human Gross Anatomy II (2 s h cr) W. Metcalf (820G) (Prerequisite 510)
A dissection of the abdomen, pelvis and lower extremity. (A continuation of Human Gross Anatomy I.)

523 Human Clinical Embryology II (1 s h cr) W. Metcalf (823) (Prerequisite 513)
A continuation of Human Clinical Embryology I involving a study of the morphogenesis of all remaining organ systems. Discussion of abnormalities of clinical significance of these organ systems will also be presented.

526 Human Histology II (4 s h cr) Earle (826G) (Prerequisite 510)
A study of cells and fundamental tissues with the light microscope. Ultrastructure is also emphasized. The microscopic structure of organ systems is introduced.

M-ID 540 Clinical Medicine/Living Anatomy (2 s h cr) W. Metcalf
An introduction to Physical Examination correlating dissecting room anatomy with the anatomy of the living.

M-ID 542 Clinical Medicine/Living Anatomy (1 s h cr) W. Metcalf (Prerequisite 540)
A continuation of 540.

ELECTIVES

NOTE: Prerequisite for all elective courses is by permission.

Special Studies in Anatomy, Staff
Students are offered the opportunity to pursue studies in the various fields indicated beyond that given in the basic courses. The work will consist of lectures, demonstrations, designed readings or laboratory work, depending on the nature of the material and the hours of registration. Full credit indicated can be achieved by re-registration in a course should a student elect to do so. Students should contact the Chairman of the Department for information relative to arranging for any of these courses.

530 Cross-Sectional Anatomy - (2 s h cr) Second Semester, W. Metcalf

612 Electron Microscopy (1.3 s h cr) Summer Session, Stinson

620 Embryology (1.3 s h cr) Second Semester, N. Metcalf

621 Teratology (1.3 s h cr) Second Semester, Staff

622 Neuroanatomy (1.3 s h cr) Second Semester, Earle

Applied Anatomy (1.4 s h cr), Stinson, Staff
Demonstrations, dissections, and lectures covering the gross topographical and surgical aspects of human anatomy. Special emphasis will be placed on clinical applications.

626 Extremities
Thorax
Head and Neck
Topographic Anatomy
Pelvis and Perineum

Research in Anatomy, Staff
Prerequisite: Arrangement with department staff
Work can be carried out in any of the subdivisions of Anatomy.

Basic Science Clerkship (4 s h cr) Staff
ANESTHESIOLOGY
ANESTHESIOLOGY

ASSOCIATE PROFESSORS Chapin, Cuka, Hurlbert, Newland, Peters; ASSISTANT PROFESSORS Landers (Chairman), Nance, Racys, Wang; INSTRUCTOR Boskovski, Morton; CLINICAL ASSISTANT PROFESSORS Babcock, Barjenbruch, Boschult, Brauer, Chilian, Frank, O'Gara; CLINICAL INSTRUCTOR Bannerjee, Baxter, Fisher, Gordon, Melcher, Newman; 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 hope to accomplish this by giving a better understanding of 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 handle acute problems and make rapid decisions under supervision.

Courses of study involve familiarizing the student with some 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
Clinical Medicine III (Incorporated in M-ID 650, 652)
Seminar and laboratory course during second year designed to provide an understanding of some of the common causes and mechanisms of sudden death, and to learn skills in an effective approach to resuscitation and life support.

720 Anesthesia Clerkship, Hurlbert
Periods offered: 4 weeks
Student limit: 10
Semester hours:
Opportunity to gain an understanding of preoperative evaluation and preparation of patients for anesthesia and operation, clinical pharmacology of adjunctive drugs and anesthetic agents, respiratory physiology, principles of resuscitation, care of the unconscious patient, inhalation therapy, and 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- to four-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 therapy. 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 anesthesiology clerkship for more intense study. Definition of problems and program of learning to be decided upon discussion with faculty.

ANESTHESIA GENERAL EXERCISES
Anesthesia Lecture (Tuesday 4:30 p.m.-5:30 p.m. and Wednesday 7:00 a.m.-8:15 a.m.)
Case Discussion (Tuesday and Friday 6:45 a.m.-7:15 a.m.)
Department Journal Club (monthly, 6:30 p.m.-8:30 p.m.)
BIOCHEMISTRY

PROFESSORS Barak, Birt, Bresnick (Chairman), Copenhaver, Matschiner, Mirvish, Phares, Ramaley, Tobin, Tuma; ASSOCIATE PROFESSORS Cavalieri, Cox, Curtis, Eastman, Grandjean, Heidrick, Hines, Hofert, Johnson, Lippiello, Mahowald, Salhani; ASSISTANT PROFESSORS Becker, Beckmann, Casey, Chaney, Donohue, Giam, MacDonald, Park, Paul, Pell- ing, Shull, Vishwanatha.

The department offers 1) a course designed for medical and pharmacy students, 2) graduate-level courses (800-999 series) each semester to graduate students working for a M.S. or Ph.D. degree in Biochemistry or related disciplines and 3) courses in basic biochemistry that are tailored to fit the needs of students in the Physician Assistant Education Program (312), the College of Nursing (310), and the Nuclear Technology Program (310).

Biochemistry — BIOC

310 Introductory Biochemistry (3 s h cr F)
This is an undergraduate course designed for nursing students and nuclear technology students. The initial part of the course covers acid/base, protein structure and enzyme function. It then deals with the chemistry and intermediary metabolism of carbohydrates, lipids, and amino acids. The course concludes with nucleic acid structure and protein biosynthesis.

312 Undergraduate Biochemistry (4 s h cr F)
This is an undergraduate course designed mainly for Physician Assistants. The initial part of the course covers acid/base, protein structure and enzyme function. It then deals with the chemistry and intermediary metabolism of carbohydrates, lipids and amino acids. This is followed by nucleic acid structure and protein biosynthesis. The last quarter of the course covers special tissues, nutritional aspects of biochemistry and hormonal control of metabolism.

510 Medical Biochemistry (7 s h cr F)
This course includes the fundamental aspects of medical biochemistry including the following: the chemistry and metabolism of carbohydrates, proteins, lipids, amino acids, and nucleic acids. Biological oxidation, enzyme chemistry and kinetics, genetic control and protein synthesis are covered. In addition, the biochemistry of special tissues, biotransformation, and nutrition are studied. Small group discussions over clinical cases and clinical correlations are held.

510A Summer Medical Biochemistry (7 s h cr S) Prerequisite: 510 or its equivalent
This is a remedial course for students needing to retake Medical Biochemistry 510 or its equivalent. See catalog description above for Medical Biochemistry 510 for the content of the course.

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 chemistry and intermediary metabolism involved in the major areas of biochemistry.

720 Enzymes (2 s h cr) Mahowald (920G)
726 Nucleic Acids and Gene Expression (3 s h cr) Cox (926G)
727 Nucleic Acids: Structure, Replication and Repair (2 s h cr) Vishwanatha (927G)
728 Endocrine and Cellular Regulation (3 s h cr) Phares (928G)
730 Membranes (3 s h cr) Chaney (930G)
740 Special Topics (1-3 s h graduate credit) Staff
820 Biochemistry II (3 s h cr F) Hines and Staff
821 Biochemistry II (3 s h cr S) Hines and Staff
850 Laboratory Techniques in Biochemistry & Molecular Biology (2 s h cr S) Ramaley
860 Physical Biochemistry (3 s h cr S) Mahowald
880 Cancer Biology (3 s h cr) Eastman
FAMILY PRACTICE
Family Practice — 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 Practice 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 Practice Department as a requirement of all Family Practice coordinated clinical rotations.
705 Community Preceptorship (Required)

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<tr>
<th>Periods offered:</th>
<th>Each 8 weeks (July-April)</th>
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<tr>
<td>Student limit:</td>
<td>None</td>
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<td>Semester hours:</td>
<td>8</td>
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<tr>
<td>Prerequisite:</td>
<td>Senior Status</td>
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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, Wheatley and Staff

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<th>Periods offered:</th>
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<tr>
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<td>Semester hours:</td>
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A clinical experience at the University satellite clinic located at 1001 Fort Crook Road North, Bellevue. Covers all clinical areas. Full-time and volunteer faculty.

722 Family Health Center — Southroads Medical Associates Clerkship, Mantz

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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 Practice Office and alternative health care systems located at 14606 West Center Road in the Harvey Oaks Shopping Plaza.

723 Family Health Center — Harvey Oaks Medical Associates Clerkship, Hill and Staff

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727 Family Practice Inpatient Service (UNMC) — Chief Resident and Staff

<table>
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Where to report: Chief Resident — Room 2518

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

728 Family Practice Clerkship — Nebraska Methodist Hospital

<table>
<thead>
<tr>
<th>Periods offered:</th>
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<tbody>
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<td>1</td>
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<tr>
<td>Semester hours:</td>
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A clinical experience, both inpatient and outpatient, on the Family Practice service. Average monthly census of patients per volunteer faculty is 25. Particularly recommended for early clinical experience.

730 Family Practice Clerkship — Lincoln General Hospital

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A clinical experience, both inpatient and outpatient through the Lincoln Medical Education Foundation Family Practice Service. It is recommended that a student have completed at least 6 half year of clinical services. For further information and an application call Family Practice extension 5157.

734 Sports Medicine in Family Practice, Mellon and Staff

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<tr>
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<td>4</td>
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Where to report: Sports Medicine Clinic

This elective is an out-patient experience in three settings: sports medicine clinic, the sports rehabilitation unit at UNMC, and the athletic training room at the University of Nebraska at Omaha. The purpose of the elective is to have clinical evaluation skills in sports medicine and teach the student the importance of prevention, accurate diagnosis and management, and rehabilitation in the care of a wide variety of musculoskeletal, medical and behavioral problems in the athlete.
Family Practice Clerkship — Preventive Medicine, McIlvain and Staff

- Periods offered: Check with Family Practice Dept.
- Student limit: 4
- Semester hours: 4
- Where to report: Swanson Center

A non-clinical experience, focusing on practical information for the physician dealing with problems related to nutrition, smoking, exercise and stress in children and adults and emphasizing prevention as an effective treatment to good health. For further information call Family Practice, extension 5157.

Private Practice Office Clerkship

- 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.

Family Practice 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.

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 Practice Clinics and other activities.

Off-Campus Elective in Community Health, Patil, Bass, M. Faithe

- 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.

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.

Non-Thesis Research, Patil, Authier and 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.

Family Practice 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 Practice 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 Practice
Periods offered: Each 4 weeks
Student limit: By arrangement
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.
INTERDEPARTMENTAL

Interdepartmental — M-ID

518 Human Genetics, Olney, Buehler, Sanger (1 s h cr)
Current principles and concepts of human genetics are discussed. Examples of gene and chromosome disorders, and environmental causes of birth defects, their mechanisms, and possible etiologies are presented. Stress is placed upon an integration of both basic science and clinical points of view. Procedures of genetic counseling are discussed throughout.

520 Clinical Nutrition (1 s h cr 2nd semester) Staff
The purpose of this course is to introduce freshman medical students to the importance of proper nutrition and diet for patients. Topics include nutrition as a component of health and prevention of disease with emphasis on prevention aspects of cardiovascular disease, hypertension, diabetes, cancer and obesity. Other areas covered are nutritional assessment of individuals with focus on the hospitalized patient. Current methods of nutritional assessment for identifying malnourished and high risk patients will be presented.

540 Clinical Medicine — Living Anatomy (2 s h cr 1st semester)
Introduction to physical diagnosis, correlated with Gross Anatomy.

542 Clinical Medicine — Living Anatomy (1 s h cr. 2nd semester)
See 540

650/652 Introduction to Clinical Medicine (6 s h cr 1st semester)/(6 s h cr 2nd semester) Moore and Staff
Further skills in history and physical examination will be taught and correlated with the pathophysiology of disease states. Specialized skills, epidemiology, aging, and interpersonal relationships will be discussed. Didactic lectures will be supplemented with small group discussions. Each student will be given an opportunity to learn specialized procedures and physical diagnosis in small groups utilizing real and simulated patients.
INTERNAL MEDICINE
INTERNAL MEDICINE

PROFESSORS Andrews, Armitage, Bennett, R.B. Davis, Duckworth, Ecklund, Ellingson, Engel, Foley, Fusaro, Matoole, Paustian, Shane, Sorrell (Chairman), Tobin, Tuma, Waldman;
ASSOCIATE PROFESSORS Bashir, Burnett, Dabestani, J.C. Davis, Gallagher, Goldsmith, Harty, Johnson, Karnegis, Kay, Kessinger, Klassen, Koh, Mayer, Moore, Olson, Pleifffer, Potter, Rennard, Robbins, Salhany, Schafer, Smith, Tempero, Vaughan, Wigton, Zetterman;
ASSISTANT PROFESSORS Beckmann, Berlinger, Bierman, Braddock, Campbell, Casey, Donohue, Donovan, Easley, Jr., Foster, Givner, Gust, Haire, Haley, Jennett, Larsen, Levene, McAlevy, Meyers, O'Dell, Quigley, Reed, Rozanski, Schoier, Sears, Slisson, Spurzem, Tape, Thierfelder, Thompson, Von Essen, Windle;
INSTRUCTORS Giann, Horrump, Ris; EMERITUS Grissom, Harman, Lemon;
CLINICAL PROFESSORS Baker, Crotty, Eliot, Forker, Schaefer, Stone;
CLINICAL ASSOCIATE PROFESSOR Adams, Angle, Gaudilli, Chambers, Connolly, Gard, Goldner, Hamilton, Hartman, Jr., Harvey, Hubbard, Kelsey, Long, Lorenzo, Mailliard, Miles, Miscia, Muffy, Ohl, Pepper, Rosenlof, Settles, Wahl, Ward, A.L. Weaver, W.F. Weaver, Wilson;
CLINICAL INSTRUCTORS Bacon, Bobenhouse, Dewey, Dyke, Ells, Garwood, Haag, Marion, McMullen, Niehaus, Novak, Papenfuss, Powers, Regan, Shiffermiller, Simmons, Spasato, Spry, Stieg, Stempfer, Sten, Sten, Jr., Sundell, Till, Tomhave, Tsao, Wlakemeth, Wilkins; ADJUNCT PROFESSORS Barak, Ebadi; ADJUNCT ASSISTANT PROFESSORS Donohue, Hamel; COURTESY PROFESSORS Hofschire, McManus, Vanderhoof; COURTESY ASSOCIATE PROFESSORS Antenson, Qualze, Torkelson; COURTESY ASSISTANT PROFESSORS Greiner, Pease, Rings, Severson, Wolcott; SENIOR CONSULTANTS Greene, Hanksins, Wurl; EMERITUS PROFESSORS Alfa, Grissom, Harman, Lemon, 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)
- Credit 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.

705 Basic Medicine Required Clerkship, Staff — UNMC, OVAMC

- Periods offered: Each 12 weeks
- Student limit: 30
- Semester hours: 12

The student is an integral member of the health care team responsible for the care of inpatients of the Internal Medicine service at one of two hospitals (University Medical Center or Omaha Veterans Administration Medical Center). As a team member, the student will obtain the initial history and perform thorough physical examinations, assess the patient’s problems, and plan diagnostic and therapeutic programs. Students will be expected to assume responsibility for the daily care of their patients commensurate with their level of training. Skills in patient interaction, decision-making, and performance of routine procedures will be emphasized. The fundamentals of internal medicine will be reviewed in formal sessions and through daily patient contact. Several of the weekly internal medicine conferences are designed for student participation.
709 Geriatric Clerkship, Potter
Periods offered: Each 4 weeks (except July)
Student limit: 2
Semester hours: 4
Prerequisite: None

Geriatric and gerontologic health care practices are the focus for this clerkship. Several long-term care organizations are used as teaching resources as well as sites in the community. Emphasis is on sound treatment methods, successful practices and programs, and on the special and often recurring health needs of the older patient. Requires use of a car.

712 On-Campus Dermatology Clerkship, UNMC Hospitals and Affiliates
Periods offered: Each 4 weeks
Student limit: 2
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.)

714 Omaha Dermatologist Clerkship
Periods offered: Each 4 weeks
Student limit: 1
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 (Omaha or Lincoln). Approval based on availability of periods and interview.

715 Inpatient General Internal Medicine Clerkship
Loomis, Osterholm, Eltis, and Stern — BCMH
Holmes, Darst, Stacey, and Reilly — BCMH
Munyon, Cooney, and E. Taylor — BCMH

Periods offered: Each 4 or 8 weeks
Student limit: 1 to each of the 3 services
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, 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 House Officer, supervisory resident, and attending physicians. 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.

718 Inpatient Consultation Clerkship, Staff — OVAMC
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4
Prerequisite: 705 (Internal Medicine Clerkship)

On this service the student has the opportunity to see and perform initial consultations on patients of non-medical services for whom internal medicine and certain subspecialty consultations are requested. The activity is closely supervised by the chief medical resident and attending physician appropriate to the problems identified. Students are encouraged to participate in the regularly scheduled activities of the medical service at OVAMC as well. Because of the diverse nature of the problems, the student has the opportunity for unofficially attaching himself/herself to subspecialty services and participating in teaching activities of those services.
Adult Cardiology
UNMC — Engel and Staff
OVAH — Karnegis and Staff
BCMH — Miscia, Miles, Chambers, Hibbard and Hansen
Immanuel — Collins
Methodist — Draur and Morgan
Lincoln — Forker
- Periods offered: Each 4 weeks
- Student limit: 8
- Semester hours: 4
- Prerequisite: 705 (Internal Medicine Clerkship)

UNMC — This clinical cardiology rotation emphasizes inpatient evaluation and care of patients on the cardiology services and seen in consultation, but will include exposure to laboratory evaluation including electrocardiography, electrocardiographic monitoring, echocardiography, electrophysiology, and catheterization. In addition to daily teaching rounds and a daily didactic conference, there are three cardiology teaching conferences weekly.

OVAH — A clinical cardiology rotation for medical students has been designed at the Omaha VAMC. Here 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 cardiology diseases. This rotation emphasizes inpatient bedside evaluation through consultation. 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 result in the student later being able to function comfortably as an intern when faced with cardiology patients in the Emergency Room or on the ward.

General Medicine, Meyer, Olson and Reed
- Periods offered: Each 4 weeks (Sept.-April)
- Student limit: 12 Maximum; 3 Minimum
- Semester hours: 4
- Prerequisite: 705 (Internal Medicine Clerkship)

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

Diabetes, Endocrinology and Metabolism, Duckworth, Gallagher, Ecklund, Larsen and Tobin — 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.

Gastroenterology, Zetterman and Staff — UNMC, D. Schafer and Staff — OVAMC, E. Schafer — BCMH
- Periods offered: Each 4 weeks
- Student limit: 3
- 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. There will be one position available at each hospital.
725 Hematology, Feagler and Staff — BCMH

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

A broad experience is offered in clinical hematology, with emphasis on new concepts in the management of hematologic problems. Patient care serves as a basis for teaching the principles of diagnosis and management of the anemias, leukemia, hemorrhagic disorders, and disorders of immunology. Patients are seen at the Clarkson Hospital. Consultations are answered from general internal medicine and other specialties, and patients are seen in the relevant outpatient clinics. Teaching in a more structured manner is done in weekly blood morphology demonstrations in collaboration with the Department of Pathology and Microbiology, in the Blood Club, in which various subjects are discussed. Students who elect hematology have ample opportunity for reading, and research opportunities can be provided for the student by special arrangement.

726 Infectious Disease, J.C. Davis and Philip Smith — UNMC/BCMH (Adult), J. Roccaforte — Immanuel (Adult), R. Penn and D. Itkin — Methodist/Children's (Pediatric)

Periods offered: Each 4 weeks
Student limit: 1 — Davis/Smith
1 — Roccaforte
2 — Penn/Itkin
Semester hours: 4
Prerequisite: 705 (Internal Medicine Clerkship)

The cornerstone of the infectious disease rotation will be clinical responsibility on the infectious disease service at UNMC under the supervision of Dr. P. Smith. During the basic rotation, a rational approach to the diagnosis and therapy of infectious disease will be learned. Other facets of the rotation will include hospital epidemiology, clinical microbiology, infectious disease rounds at UNMC and BCMH, and infectious disease conferences. Opportunities will be available for special projects in clinical infectious diseases or microbiology.

727 Renal, Knight and Ware — BCMH, Egan — OVAMC

Periods offered: Each 4 weeks
Student limit: 2 (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, Bierman, Davis, Foley, Goldsmith, Haire, Kessinger, Tempero, Vaughan, Reed, Glenn — UNMC

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

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 that emphasizes bone marrow transplants continues to be available as well. In addition to participation in the oncology and hematology clinics, the student will attend morning discussion groups. Each Wednesday at 7:30 a.m. bone marrow aspirates and biopsies of both inpatients and outpatients done the previous week will be reviewed and discussed. On Thursday at 8:30 a.m. the student will attend a Coagulation Conference where clinical problems of patients in the inpatient and outpatient area that have been identified in the past week will be discussed. On the third Wednesday at noon, a fellow in oncology or hematology will conduct a journal club. 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, AIDS, 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.
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.

732 Introduction to Pulmonary Diseases, Rennard and Staff — UNMC, Burgher, Tinstman, S. Smith, Keim, and Stahl — BCMH
   Periods offered: Each 4 weeks
   Student limit: 4
   Semester hours: 4
   Prerequisite: 705 (Internal Medicine Clerkship)
   The pulmonary division offers an elective designed to provide the student with a practical background in chest medicine. The students will be assigned to either University Chest Service or the Clarkson Chest Service for training in patient management. The course includes practical experience in the performance and interpretation of basic pulmonary function tests.

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, Pfeiffer and Bennett — UNMC, Lorenzo and Ohr — OVAMC, Goldner, Danneel, Cooper, Cotton and Sundell — BCMH (by arrangement), Alta — UNMC (by arrangement) Birkman, Smith and Bobenhouse — Lincoln (by arrangement)
   Periods offered: Each 4 weeks
   Student limit: 5 (UNMC/OVAMC)
   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.

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 Olson)
   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.

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 Section of Neurology 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 Olson)
- Semester hours: 4
- Prerequisite: 705 (Internal Medicine Clerkship)

A preceptorship with a general internist where the student is exposed to outpatient care. A list of Omaha preceptors is available in the Internal Medicine Office. An externship is also available at Iowa Methodist Hospital, Des Moines, Iowa. See Dr. David Olson for details.

**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

**771 Junior Residency in Adult Neurology**

- Prerequisite: One year of Medicine, Family Practice or rotating 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 four consecutive months at each of the participating hospitals: The University of Nebraska Hospital, Veterans Administration Hospital, and St. Joseph Hospital.

**772 Internal Medicine Core Residency, Staff**

**774 Internal Medicine Fellowship, Staff**

**775 Intermediate Residency in Adult Neurology**

1. **Pediatric Neurology** — (four months, University of Nebraska 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 familiar with neurologic problems during the developmental period 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. **Neuropathology** — (four months, University of Nebraska Hospital) Neuropathology is a full-time assignment for a four-month period. One neuropathology conference is held each week, rotating among the three teaching hospitals. These consist of brain cutting, microscope review and teaching conferences. There is a monthly neurological, clinical pathological conference. The resident assigned to neuropathology attends and participates in all of these conferences and is responsible for writing the CPC. 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.

3. **EEG and Evoked Potentials** — (four months, University of Nebraska, St. Joseph, and Veterans Administration Hospitals) The resident spends a four-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 be able to run a complete EEG on a patient including preparing the patient for the test. Reading sessions are conducted daily with the attending. The resident will have reviewed all records prior to this conference. A weekly 1½ hour conference review of interesting records from the three hospitals is also held. Books, references, articles, manuals, and teaching records are available for self-study.

**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. *EMG* — In the four-month exposure to neuromuscular techniques both didactic and practical experience are scheduled. The former includes the review of electrophysiology nerve impulse, review of clinical physiology of the 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. The resident will also be expected to attend the muscle disease clinic.

777 Senior Residency in Neurology with Special Competency in Child Neurology

Prerequisites: Two years of Pediatrics (HO I and II as well as 771 and 775 Adult Neurology)

The goals and objectives of the course are to complete the resident's education in pediatric neurology with encouragement into academic and research endeavors. To accomplish this, the resident will spend one year on the pediatric neurology service during which time he or she will have full clinical responsibility for patients on the pediatric neurology service, both inpatient and ambulatory. The program will be under the direct supervision of the Director of Child Neurology and the Chief of Neurology.

790 Clinical Research Elective in Neurology

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<th>Periods offered:</th>
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<td>Student limit:</td>
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<td>Semester hours:</td>
<td>Total hours are by individual arrangement</td>
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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, Sorrell and Staff — UNMC

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<th>Periods offered:</th>
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An off-campus elective application must be submitted for this experience.
MEDICAL SOCIAL WORK
MEDICAL SOCIAL WORK

Medical Social Work — 34

720 Patient/Family Reactions to Illness (Elective), Adkinson, Staff

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

Students will observe as social workers counsel hospital and clinic patients concerning their difficulties in coping with illness and problems that arise in preparation for discharge. Students will participate in patient and family interviews. They will gain knowledge of community resources and agencies, and will explore with the social worker the legal, ethical and economical issues of patient care.
OBSTETRICS - GYNECOLOGY

PROFESSORS Rayburn, Scott, Jr., M.L. Smith (Chairman); ASSOCIATE PROFESSORS Woods; ASSISTANT PROFESSORS Coney, McIntosh, C. Smith; CLINICAL ASSOCIATE PROFESSOR Heidrick; SENIOR CONSULTANTS Field, McGoogan, Kovan, Rumbolz; RESEARCH PROFESSOR Ryan; RESEARCH ASSOCIATE PROFESSOR Curtis; INSTRUCTOR (COURTESY) Mason; VOLUNTEER FACULTY Adam, Bassett, Beavers, Bohi, Buckley, Bussinger, Byington, Crabb, Dawson, Dietrich, Dilley, Dolnicek, Elston, Faaborg, Foote, Garlinghouse, Gorthey, Green, Hansen, Harvey, Engdahl-Hoffman, Holdt, J.B. Itkin, Jernstrom, Johnson, Jones, Keasling, Knoll, Kolbeck, LaBenz, Legino, Levine, Luby, Magid, Maly, Marlowe, Marshall, Martin, McGinnis, Millus, Nabity, Olesh, Olson, Orr, Reilly, Roffman, Rogers, Schack, J.H. Schulte, R.L. Schulte, Siemers, Stohs, Sundell, Taylor, Waechter, Wax, Weidner, Westcott

Obstetrics-Gynecology — OBGY
Reproductive Medicine (included in M-ID 650, 652) Staff
This course provides an introduction to obstetrics and gynecology. Course content includes diagnosis and care of the normal and abnormal obstetric patient, assessment of the intrauterine patient, and discussion of female pelvic disease. The information will be considered as core material and successful completion of the course is a prerequisite to the primary clinical clerkship.

620 Introduction to Obstetrics and Gynecology, Staff
Anatomy, physiology, and biochemistry of normal human reproduction and their relation to clinical obstetrics and gynecology.

640 Introduction to Family Planning and Contraceptive Techniques, Staff
Prerequisite: 88-514
Basic familiarization with methods in family planning at UNH clinics and family planning clinics in Omaha under staff supervision. The student will also complete a programmed text in family planning which will be given to him at the beginning of the elective period.

642 Introduction to Clinical Gynecologic Endocrinology
Prerequisite: Biochemistry 510
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.

644 Advanced Topics in Obstetrics and Gynecology
Prerequisite: 80-514
In-depth investigation into one of the basic clinical areas in obstetrics and gynecology with the goal of development of an audiovisual teaching package in that specific area.

646 Basic Principles of Fetal Monitoring
Prerequisite: 88-514
An introduction into techniques of fetal monitoring, the clinical course of labor and management of the patients in labor utilizing external and internal methods of fetal monitoring.

701 Obstetrics and Gynecology: Introduction to the Profession, Rayburn and 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.

The student 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 the research project. The student is to be 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 Outpatient, 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 Obstetrics, Staff
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4

722 Advanced Gynecology, Staff
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4

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 Off-Campus Elective
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. 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 integrated hospitals. An additional rotation is a period of time devoted to pathology, endocrinology, internal medicine, anesthesia, 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. Following completion of the core residency and the chief residency, the Board requirements of the American Board of Obstetrics and Gynecology are fulfilled. All residents participate in staff conferences, journal club, radiology seminars, and grand rounds.

796 Research, Medical Education, Staff
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4
Problems of core curriculum, development of audiovisual aids and evaluation in undergraduate education.

797 Research, Family Planning, Staff
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4
Problems of family planning, including clinical experience in a variety of settings.
Research, Maternal and Infant Care, 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.

Research, Gynecologic Cancer, 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.
OPHTHALMOLOGY
OPHTHALMOLOGY

PROFESSORS Records (Chairman); ASSOCIATE PROFESSORS Christensen; CLINICAL PROFESSORS Eagle, Filkins, Truhlsen; CLINICAL ASSOCIATE PROFESSORS Anis, Durrie, Grifiths, Latta, Meissner, Statton; CLINICAL ASSISTANT PROFESSORS Baras, Chase, Crawford, Dinsdale, Faier, Geiger, Madson, Martin, Morgan, Mauzolf, McIntosh, Nye, Pemberton, Popp, Priluck, Ramsell, Schlichtemeier, Sutton, R. Troia, S. Troia, Van Newkirk; CLINICAL INSTRUCTORS Dean Arkfeld, Donald Arkfeld, Brumm, Campbell, Crossman, Haskins, Meyer, Shefte, Sutton, C. Troia, Whitted, L. Wood; SENIOR CONSULTANT M. Wood; EMERITUS Alliband, Gifford, Morrison.

Ophthalmology — OPHT

602 Principles of Clinical Ophthalmology (included in 19.650/652)
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, physiological 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, Records (UNH/OVAH)
Periods offered: Each 4 weeks (8 weeks by arrangement with Chairman)
Student limit: 2
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.

772 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. Successful applicants are generally notified of their appointments some eighteen months prior to the start of formal training.

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 further in-depth ophthalmic teaching.

The University of Nebraska Medical Center's Ophthalmology Clinic furnishes outpatient care to a wide range of patients. No income restrictions are applied to patients seeking care and service. This brings a complete spectrum of clinical material ranging from totally indigent to full-pay private patients. The Omaha Veterans Administration Medical Center maintains an extremely active ophthalmology service which functions both as an outpatient screening facility and an inpatient surgical service. A large volume of cases are seen at this hospital yearly and an unusually high percentage of them undergo major ophthalmic surgical procedures.

The clinical facilities of both the University of Nebraska Medical Center Hospital and the Veterans Administration Medical Center are among the best equipped in the United States. The latest in diagnostic and refraction equipment is available and all surgical procedures are performed utilizing the operating microscope.
THE TRAINING PROGRAM

First Year: Each new resident is given a short orientation and then is assigned to work under the supervision of a second-year resident. As soon as the individual demonstrates a reasonable degree of competence in the management of simple ophthalmic problems, he/she is given his/her own completely equipped examination room and is assigned random patients from the general eye clinic population. The neophyte resident then undertakes diagnosis and management of these patients under the careful guidance of an attending faculty member. He/She is encouraged to move as rapidly as possible in developing the skills which are necessary to become a thorough and complete ophthalmic clinician. The best interest of the patient, however, is always the primary concern, and all steps of diagnosis and management are made under careful supervision. As the resident gains more experience and confidence, more latitude is given until at the end of the freshman year, a high degree of competence has been obtained in management of everyday ocular complaints. This includes the evaluation of patients who will undergo routine ocular surgery as well as both simple and complicated problems in refraction and medical ophthalmology. Much emphasis is placed upon developing the important skill of ophthalmic history taking and performing a meticulous and detailed examination.

Second Year: An important and rewarding part of the training of each second-year resident is close supervision of the freshman residents as they become active in the operation of the clinic. The second year resident continues to improve his/her skills in diagnosis and management of routine major ophthalmic procedures. Such procedures include enucleations, strabismus surgery, and uncomplicated cataract extractions. During the second year of training the resident is exposed to various disciplines closely aligned with ophthalmology such as neuro-ophthalmology, ophthalmic pathology, and pediatric ophthalmology.

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 the operation of the clinics and the well-being of the inpatients on the ophthalmology service. He/She is also active in supervising the first and second-year residents and confirming their diagnoses. The senior resident performs most of the major ophthalmic surgical procedures at the University and Veterans Administration Hospitals. 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.
ORTHOPAEDIC SURGERY
AND REHABILITATION
ORTHOPAEDIC SURGERY AND REHABILITATION


CREIGHTON-NEBRASKA HEALTH FOUNDATION ORTHOPAEDIC SURGERY SERVICES

Hospital, University of Nebraska, Chief, John F. Connolly
Section of Fractures and Adult Reconstructive Surgery
  John F. Connolly, Kevin L. Garvin, O. Max Jardon.
Section of Children's Orthopaedics, Director, Walter W. Huurman, Paul W. Esposito.
Section of Hand Surgery, Director, Thomas P. Ferlíc
Section of Sports Medicine, Director, W. Michael Walsh, David E. Brown, Morris B. Mellion.
Section of Orthopaedic Research, Director, Louis Lippiello.
Hospital, Veterans Administration (Omaha) Chief, Kevin L. Garvin.
Hospital, Nebraska Methodist, Chief, Thomas C. Bush.
Hospital, Childrens Memorial Hospital, Chief, Walter W. Huurman.
Hospital, Saint Joseph's Hospital, Chief, Michael H. McGuire.
Hospital, Ehring Bergquist USAF Regional, Chief, David Lindsay.
Hospital, University Medical Center, Las Vegas, Anthony B. Serfustini.

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, Connolly
Periods offered: Each 4 weeks
Student limit: 12
Semester hours: 4
Prerequisite: General Surgery Clerkship

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 and Esposito
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4
Prerequisite: None
Where to report: 7:00 a.m., Monday

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, Walsh
Periods offered: Each 4 weeks
Student limit: 2
Semester hours: 4
Prerequisite: Orthopaedic Ward and Clinic Elective (722), or two week Orthopaedic (Surgery Subspecialty) Junior Clerkship

The purpose of this rotation is to provide the student with the opportunity to learn how to evaluate and manage sports injuries and related medical problems. It will be coordinated with University of Nebraska at Omaha athletic programs. Both UNO athletic training facilities and the UNMC orthopaedic clinic will be utilized.
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 three applicants from the graduating medical school classes through the National Residency Matching Program. In addition, a fourth position is made available for a resident who has completed a preliminary year of training and wishes 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, St. Joseph's Hospital, the Omaha and Lincoln Veterans Administration Hospitals, Children's and Methodist 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 and Children's 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.
OTOLARYNGOLOGY
OTOLARYNGOLOGY

PROFESSORS Yonkers (Chairman); ASSISTANT PROFESSORS G.F. Moore, Ogren; CLINICAL PROFESSOR Norris; CLINICAL ASSOCIATE PROFESSORS Carter, Gillies; CLINICAL ASSISTANT PROFESSOR S. Beck, Denenberg, Ferrell, Foote, Heywood, Jones, Quinlan, Simons, Stivers, Syre; CLINICAL INSTRUCTORS Adkins, Crawford, Emanuel, Heywood, Huerter, I.J. Moore, Novotny, Schack, Sherrerd, Stemm, Teigt.

Otolaryngology — Head and Neck Surgery - OTOL

720 Otorhinolaryngology Clerkship, Yonkers
   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 Otorhinolaryngology
   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.
PATHOLOGY AND MICROBIOLOGY
Pathology and Microbiology — PAMM

618/619 Medical Microbiology and Immunology I, II (5 & 4 s h cr respectively) Booth, Woods, and Staff (818/819 G)
These courses aim to acquaint students with the basic principles of microbiology and immunology particularly as these relate to infection and disease. The instruction offered in these courses is supplemented with more advanced and specialized courses (640 to 999) for students who are candidates for the M.S. or Ph.D. degree and for other students such as the honors student, residents in specialty training, and others desiring advanced work in medical microbiology, independently of the requirements for a degree. For more details concerning the program in graduate education, please see the Bulletin of Graduate Studies of the University of Nebraska Medical Center or the Handbook of Clerkships and Electives of the College of Medicine. Certain of these advanced level courses which have been attractive to medical students in the past are listed for the student’s convenience. These courses, when taken in sequence, comprise a composite course in Medical Microbiology and Immunology extending over two academic semesters. The courses consist of lectures, conferences, and laboratories. The basic principles of bacteriology, mycology, parasitology, virology, immunology and microbial genetics are covered. The cultural characteristics and pathogenic properties of medically important species of bacteria, fungi, and viruses are presented. Host-parasite relationships including immunological responses to infections are described. Protozoa, helminths, and arthropods of medical importance are studied.

620 General Pathology I (5 s h cr) (820G)
Prerequisite: Human Gross Anatomy, Histology, Neuroanatomy, Embryology, Cellular and Systems Biochemistry (Medical) and Physiology Parts I and II
The etiology, pathogenesis and prognosis of major diseases are stressed throughout the instruction. The course begins with an emphasis on cellular pathology with the reactions of cells and tissues to injury. The principles of neoplasia are reviewed followed by disorders of the immune system. The systemic approach to disease is then taken with a study of the lymphoid system, the cardiopulmonary system and gastrointestinal tract. Pediatric pathology is given special emphasis. Throughout, the morphologic consequences of reactions are stressed. Instruction is by lecture, special topics with invited guest speakers, laboratory experiences including microscopic slides and gross, microscopic and electron microscopic demonstrations, small group discussions which utilize the case study approach to the study of disease and participation by the student in forensic and hospital autopsies.

621 General Pathology II (5 s h cr) (821G)
Prerequisite: General Pathology I
The study of human disease by systems is continued. Topics include the genitourinary system, breast, genetics disorders, the liver and pancreas, forensic pathology, the integument, endocrine disorders, the central nervous system, the soft tissues and the musculoskeletal system. Instruction methods utilized are the same as in the first semester: lecture, special topics, laboratory, small group discussion and autopsy participation.
Clinical Pathology (2 s h cr each semester) (622G/623G)
The course in Clinical Pathology emphasizes the basic rationale for the selection and interpretation of laboratory tests in the diagnosis, management and follow-up of patients. Special emphasis is placed upon efficient, cost-effective use of the clinical laboratory. A problem-oriented approach with the class divided into small groups is taken with the use of clinical case studies for the various topics in clinical pathology. In this problem-oriented approach, the students prepare and present the assigned cases to one another, and to a clinical pathology faculty member who functions as a facilitator for the discussions and presentations. Occasional special topics and lectures are utilized. Wherever possible, subject material chronologically coincides with similar material being presented in the General Pathology I and II courses.

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.

Forensic Pathology
Prerequisite: General Pathology I and II
Forensic Pathology essentially addresses all aspects of legal medicine with special emphasis on the contribution of the pathologist.

Pathologic Anatomy
Periods offered: Every 4 weeks
Student limit: By arrangement
Semester hours: 4
Prerequisite: General Pathology I and II
The Department provides students the opportunity to pursue, in depth, the pathologic anatomy of disease, utilizing a variety of modes and emphasizing structural abnormalities. This course is based in Surgical (Dr. Linder), Autopsy Pathology (Dr. McManus), and Neuropathology (Dr. McComb). Students are assigned to individual staff members by arrangement. This period may be integrated in part with Clinical Pathology 722 by arrangement.

Clinical Pathology and Laboratory Medicine, Staff
Periods offered: every 4 weeks
Student limit: By arrangement, 1-2 students in each specialty at one time.
Semester hours: 4
Prerequisites: General Pathology I and II, and Clinical Pathology (622).
The Department provides opportunities for students to study laboratory medicine, by subspecialty, within the diagnostic laboratory. These studies are designed to expand the student's understanding of the relationship of diseases to interpretable functional abnormalities. Experience in the following clinical laboratory subspecialties is available: Clinical Chemistry (Dr. Markus), Blood Banking (Dr. Warkentin), Virology (Dr. Purtilo), Hematology (Drs. Weisenburger and NeWland), Microbiology, Immunology (Drs. Johnson, Lipscomb, Purtilo), and clinical research. Individual students are assigned to staff members with specific interests in one or more of these specialty areas. In-depth correlation and appropriate interpretation of clinical laboratory data is stressed. By arrangement, a student may elect to spend a part of one four-week period in Pathologic Anatomy 720 in order to better correlate structural and functional abnormalities.

Off-Campus Elective
Periods offered: Every 4 weeks
Student limit: By arrangement
Semester hours: 4
Prerequisites: General Pathology I and II, Clinical Pathology (622).
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.

Pathology and Laboratory Medicine Residency
Prerequisites: General Pathology I and II, Clinical Pathology
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 3-month rotating periods in Clinical Pathology and its various components such as Hematology, Immunohematology, Microbiology, Clinical Chemistry, Autopsy 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. Exceptional students may enroll and receive up to six months credit for their boards in pathology should they begin studies after the second year of medical school.

799 Special Problems and Research (4 weeks)
Prerequisites: General Pathology I and II, Clinical Pathology
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.
705 Required Primary Clerkship in Pediatrics, Staff
   Periods offered: Each 8 weeks
   Student limit: 20
   Semester hours: 8

The student learns techniques of patient assessment and clinical problem solving applicable to infants, children, and adolescents and gains familiarity with (1) the processes of physical growth and psychomotor development, (2) the influence of childhood illnesses on growth, development, and child-family interactions, and (3) age-related differences in susceptibility to illnesses and tolerances for drugs and dosages. The student's clinical experiences consist of 4 weeks on the in-patient service at University or Children's Hospitals and 4 additional weeks in a variety of ambulatory settings (general pediatrics clinic, emergency room, pediatrician's office, community clinic, and Meyer Children's Rehabilitation Institute).

722 Pediatric Cardiology and Cardiovascular Disease, Hofschire, Kugler, Cheatham, Latson, Gumbiner, Danford
   Periods offered: Each 4 weeks
   Student limit: 2
   Semester hours: 4
   Where to report: Dr. Hofschire's Office

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, Al-Rashid, Strandjord, Warkentin, Gnarr, Bever
   Periods offered: Each 4 weeks
   Student limit: 2
   Semester hours: 4
   Where to report: Dr. Coccia's Office

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 Children's 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
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4
PERMISSION FROM DR. SANGER BEFORE REGISTRATION
Where to report: Human Genetics Office
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, Nelson, Bussy, Bolam, Goodrich, Vafai, Willett
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, Gregor
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
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 disturbances of carbohydrate metabolism. The student will be responsible for the daily care of inpatients, endocrine consultations and implementation of tolerance tests with the supervision of the staff.

730 Pediatric Gastroenterology, Vanderhoof, Antomonson, Kaufman, Hart
Periods offered: Each 4 weeks
Student limit: 2
Semester hours: 4
Where to report: Dr. Vanderhoof's Office
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, Frias, Olney, Sanger, Thomas, Wiltse
Periods offered: Each 4 weeks
Student limit: 2
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, Sammut
Periods offered: Each 4 weeks
Student limit: 1
Semester hours: 4
Where to report: Dr. Colombo's Office
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 and are followed for preventive care. The remainder include a significant number of patients with asthma, recurrent pneumonia, chronic cough, tuberculosis, recurrent aspiration pneumonias, immunosuppression and various other disorders. The
student will learn to perform and interpret basic pulmonary function tests. Inpatient rounds are made daily with the staff on patients hospitalized for cystic fibrosis and other pulmonary disease.

734 Clinical Pediatric Neurology  
Periods offered: Each 4 weeks  
Student limit: 1 — Torkelson, Bowen  
Semester hours: 4  
Where to report: Neurology Conference Room UH 4102, 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, McClain  
Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4  
Where to report: Dr. McClain's Office/MCRI  
The student will assist and participate with the medical staff in the diagnosis, evaluation and programming of children presenting significant developmental delays at Meyer Children's 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.

740 Adolescent Medicine and Eating Disorders, Pearson  
Periods offered: Each 4 weeks  
Student limit: 1  
Semester hours: 4  
Where to report: Dr. Pearson's Office  
This elective will provide the student with experience in the diagnosis and management of common office problems seen in teenagers, both medical and psychological, plus experience with both inpatient and outpatient diagnosis and management of adolescents and young adults with anorexia nervosa and/or bulimia. The eating disorders provide a good role model for management of the psychosomatic disorders so common in all of medicine. In addition to working with the physician, the student will also work with nutritionists and psychologists in assessment and therapy (individual and group). This provides an opportunity to learn some basic nutrition and counseling principles and techniques. This elective should be of benefit for any student considering pediatrics or any primary care area of medicine.

742 Pediatric Nephrology, Houser, Angle  
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 6) management of acute or chronic glomerulonephritis.

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
    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.
PHARMACOLOGY

PROFESSORS
Berndt, Bresnick, Bylund (Chairman), Ebadi, Morley, Murrin, Rayburn;
ASSOCIATE PROFESSORS
Deupree, Gessert, Hexum, Houser, Pfeiffer, Robinson, Scholar;
ASSISTANT PROFESSORS
Hamel, Iversen, Paul, Wimalasena.

Pharmacology — PHAR

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

307 Pharmacology for Physician Assistants (4 s h cr, W), Staff, Course director — Gessert. 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, W), Gessert. A brief survey of many aspects of pharmacology is presented with special attention to those drugs that will alter physical therapy technique and to physical therapy technique that will alter drug therapy.

Pharmacology Courses No. 615 and 616, Course Director — Scholar

Medical Pharmacology I (3 s h cr, F)

Medical Pharmacology II (3 s h cr, W)
The two lecture courses listed above (615, 616) together cover all aspects of basic medical pharmacology, including the following: General principles and pharmacokinetics; drug actions on the central, peripheral, and autonomic nervous systems and on cardiovascular, renal, gastrointestinal, and metabolic functions; chemotherapy of infectious diseases and neoplasms; toxicology; misuse of drugs.

628 Developmental Pharmacology, Murrin
Periods offered: Winter
Student limit: Minimum of 5
Semester hours: 1
Prerequisites: Medical Pharmacology 615-616 or consent of instructor.
Physiological and biochemical changes that influence drug metabolism from prenatal to adolescent periods.

629 Mechanisms of Toxicity, Berndt
Periods offered: Winter
Student limit: Minimum of 5
Semester hours: 1
Prerequisites: Medical Pharmacology 615-616 or consent of instructor
Discussion of the molecular mechanisms involved in the toxicity of therapeutic agents, poisons, and environmental pollutants.

632 Biogenic Amines in Health and Disease, Ebadi, Hexum, Murrin, Pfeiffer and Paul.
Periods offered: Winter
Student limit: Minimum of 5
Semester hours: 1
Prerequisites: Medical Pharmacology 615-616 or consent of instructor
Diseases in which over- or under-production of specific amines plays a prominent role in abnormal organ function.

633 Antiinfective Drugs, Scholar
Periods offered: Winter
Student limit: Minimum of 5
Semester hours: 1
Prerequisites: Medical Pharmacology 615-616 or consent of instructor
Actions, indications, mechanisms, and adverse effects of antibiotics and synthetic chemotherapeutic agents used in infectious diseases.

634 Cancer Chemotherapy, Scholar
Periods offered: Winter
Student limit: Minimum of 5
Semester hours: 1
Prerequisites: Medical Pharmacology 615-616 or consent of instructor
Indications for and mechanisms of action of antineoplastic agents currently used and those that are under development and investigation.
705 Molecular Pharmacology, Iversen
- Periods offered: Winter
- Student limit: Minimum of 5
- Semester hours: 2-3
- Prerequisites: Medical Pharmacology 615-616 or consent of instructor
An extensive treatment of the principles of drug action as the basis of pharmacology.

721 Advanced Pharmacology of the Autonomic Nervous System, Hexum
- Periods offered: Winter
- Student limit: Minimum of 5
- Semester hours: 2
- Prerequisites: Medical Pharmacology 615-616 or consent of instructor
The effects of drugs on the autonomic nervous system with emphasis on receptor interactions, events in transmission and specific drug effects.

725 Biochemical Properties of General Anesthetics, Sedatives and Hypnotics, Deupree
- Periods offered: Fall
- Student limit: Minimum of 5
- Semester hours: 2
- Prerequisites: Medical Pharmacology 615-616 or consent of instructor
Current theories of pharmacological effects of anesthetics, sedatives, and hypnotics.

735 Advanced Neuropsychopharmacology, Murrin and Ebadi
- Periods offered: Winter
- Student limit: Minimum of 5
- Semester hours: 2
- Prerequisites: Medical Pharmacology 615-616 or consent of instructor
Study of the effects and side effects of neuropsychopharmacological agents.

760 Off-Campus Pharmacology Electives or Clerkships, Ebadi
- Periods offered: Open
- Student limit: By individual approval only
- Semester hours: Arranged
- Prerequisites: Medical Pharmacology 615-616 or 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. These research experiences may be provided on a short (8 week) or a long-term (18 months) basis.

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. In brief, whenever possible, these electives will be designed to remain flexible in nature and commensurate with the career objectives and/or educational background of the students.
PHYSIOLOGY AND BIOPHYSICS
Course 510 in Medical Physiology and Biophysics is required for the degree of Doctor of Medicine. This course provides a study of functional mechanisms in the body and is designed to complement biochemical and morphological studies in other departments. Emphasis is placed on basic biophysical principles and how they apply to both normal and disease processes in the body. Examples from clinical medicine are used to reinforce the student's understanding of function and to prepare the student to apply basic physiological principles to clinical medicine.

Course 510 carries credit toward the M.D. degree but does not carry graduate credit toward the Master's or Ph.D. degree. However, if graduate credit is desired, the student may register for the course under an alternative 810 number. 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. Francis J. Clark or Dr. Kurtis G. Cornish 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

500 Honors Course in Physiology (2nd Sem) (9 sem hr) Individual and Small Group Conferences, directed self-study.

510 Medical Physiology (2nd Sem) (9 sem hr) (810G) Lecture, Conference Introduces the processes that regulate the activity of individual cells and organ systems. Topics covered include the physiology of cell membranes and neurophysiology followed by cardiovascular, renal, respiratory, gastrointestinal and endocrine physiology. Clinical application of basic principles is emphasized.

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. Francis J. Clark.

760 Off-Campus Elective

604 Techniques in Experimental Surgery, 3 cr. Prerequisite: Physiol 510/810 or equivalent and consent of the instructor. Provides instruction in basic surgical techniques and postoperative care with opportunities for the students to get hands-on experience. Instruction includes the use of chronic instrumentation for studying the cardiovascular system of large animals in research.

614 Scientific Writing, 1 cr. Prerequisite: Consent of instructor Helps students improve their writing of grant proposals, scientific papers, essays and examination questions.

626 Biomedical Instrumentation, 3 cr. Prerequisite: Permission of instructor Introduces the basics of electronic circuits, transistors, and integrated circuit "chips". Topics include basic measurement techniques, methods of recording and measuring biological signals, and digital circuits.
702 Special Topics, 1-4 Cr (Note: no more than 8 credits of "Special Topics" can be used toward a degree).
   Prerequisite: Physiol 810 or equivalent
Reviews a current research problem in one of the areas of physiology. The course is done either on 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.

716 Advanced Cardiovascular Physiology, 2 cr.
   Prerequisite: Physiol 510/810 and 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.

718 Advanced Respiratory Physiology, 2 cr.
   Prerequisite: Physiol 510/810 and 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.

724 Advanced Neurophysiology, 2 cr.
   Prerequisite: Physiol 510/810 and 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.

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 an opportunity for informal discussion with the visitors.

728 Advanced Neuroendocrinology, 2 cr.
   Prerequisite: Biochem 811, Physiol 810 and 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.

730 Advanced Renal Physiology 2 cr.
   Prerequisite: Physiol 510/810 and 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.
Preventive and Societal Medicine — P-SM

502 Medical Jurisprudence (1 s h cr)
This course presents fundamental concepts and topics in medical law: Medical legislation, medical evidence and witnesses, privileged communications, general medico-legal relations, physicians' contracts and compensation, malpractice, legal problems relating to conception and childbirth, and liability of hospitals and nurses.

550 Clinical Medical Humanities (2 s h cr)
This course outlines the intellectual foundations of the humanities aspects of medical practice. It emphasizes ethics, history, economics, and social science approaches to the basic goals and controversies of practice. It defines the function of the physician, the role of the medical profession, the patient as an entity, and examines the interfaces among them.

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 is a series of lectures which offer an introduction into the history of medicine and allied fields. It stresses the development of ideas, the relation of medicine to society, and the interrelations between the various medically allied fields rather than only biographic material.

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.

802 Ethics in Health Care (3 s h cr)
This course is a presentation of philosophical ethical theory, ethical decision procedures, and research methods in ethics. This material will be analyzed and applied to topics in ethics in health care. Issues in clinical practice and administration will be emphasized. Topics vary and include such issues as care of the dying, geriatrics, disclosure, informed consent, supervision and management, cost-containment, quality assurance, human experimentation, and others.
Prerequisite: Graduate standing

896 Special Problems in Medical Humanities (1-4 s h cr)
This is a research other than thesis course which allows individual students to pursue interests in selected areas of the medical humanities.
Prerequisite: Graduate standing
PSYCHIATRY
PSYCHIATRY

PROFESSORS Ellingson, Graber, Menolascino (Chairman); RESEARCH PROFESSOR Copenhaver; ASSOCIATE PROFESSORS Authier, Benschoter, Burke, Haffke, Swanson, Weiler; ASSISTANT PROFESSORS Greiner, Housel, Kang, Madison, Patino, Quattrocchi, Roccaforte, Schroeder, Wilson; INSTRUCTORS Beerling, Betts, Daughton, Meyer, Muskin, Ruma, Smith.

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.

Lectures and demonstrations in the freshman year emphasize the significance of behavioral sciences to the medical career. The sophomore program consists of lectures and demonstrations on interviewing techniques. In the junior and senior years, stress is placed on supervised experience with psychiatric patients, on inpatient and outpatient basis. Formal lectures are kept to a minimum. Instruction in psychiatry is correlated with the teaching in other departments.

Psychiatry — PSYC

502 Introduction to Psychiatry and the Behavioral Sciences (2 sh cr Second Semester; 8 h weekly) Greiner

This course is designed to give the student, via some understanding of the contributions of both behavioral and biological science, an appreciation of the development of man as a physiological, psychological entity, reacting to intrapersonal and interpersonal changes, and functioning in health and in illness within the context of family, society, and culture. It focuses on an understanding of the development of behavior in the context of both the normal and abnormal. Its objective is, while teaching the student some of the uses of basic psychiatric techniques in other branches of medicine, to help bridge the "mind-body" dichotomy, thus giving the student the ability to deal with the patient as a "whole" person rather than a series of systems. It is organized under the headings: 1) doctor-patient relations; 2) relationship of mind and body; 3) psychological and behavioral aspects of illness; 4) human development and psychosocial issues during the life cycle; 5) the biopsychosocial model and introduction to psychiatry.

610 Alcoholism and Drug Readings, Staff

Periods offered: By arrangement
Student limit: By arrangement
Semester hours: 4 per twelve weeks
Prerequisite: Biochemistry 510

Lectures, demonstrations, seminars, and review of literature concerning alcoholism and drug addiction.

616 Neurochemistry, Copenhaver

Periods offered: By arrangement each 4 weeks
Student limit: By arrangement
Semester hours: 4 per twelve weeks
Prerequisite: Biochemistry 510

A basic course in the chemistry of the central nervous system. The material will cover aspects of the subcellular units, metabolic compartments, and the regional distribution of chemical components. Current literature will be reviewed by the student and presented as part of the course.

644 Ambulatory Psychiatry, Graber

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 Developmental Problems of Children, Staff

Periods offered: By arrangement each 4 weeks
Student limit: 1 per 4 weeks
Semester hours: 4 per 4 weeks (or by arrangement)
Prerequisite: 70-705

Lectures, demonstrations and seminars. Clinical experience working with children, inpatients and outpatients, and their families. Experience with community agencies working with children.
705 Required Psychiatry Clerkship, Greiner
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 and Douglas County Hospital psychiatry services. Although assigned to a specific service, a core-curriculum of a combination of videotapes and didactic lectures of common psychiatric disorders provides each student with experiences on all services of the Department of Psychiatry.

721 Individualized Studies in Psychiatry, Greiner 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), consultation/liaison psychiatry and geriatrics (given at UPS).

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

734 Readings In Family Issues, Staff
Periods offered: By arrangement each 4 weeks
Student limit: By arrangement
Semester hours: By arrangement
Prerequisite: 70-705
Literature review in family issues.

753 Psychiatric Concepts, Greiner
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, Menolascino and Greiner
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, Bhatia
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, Ellingson and Graber
Periods offered: By arrangement
Student limit: By arrangement
Semester hours: 4
Laboratory of clinical research under direction in selected areas of psychiatry and/or behavioral sciences.
RADIOLOGY
Radiology — RADI

720 Senior Elective in Diagnostic Radiology
   Periods offered: Each 4 weeks
   Student limit: 5
   Semester hours: 4

Plan of the elective and schedule will be arranged individually with each student to best fulfill individual goals and career plans. Specialized emphasis on particular subspecialty areas or research is encouraged. Primarily clinically oriented observation will be available at associated hospitals: Clarkson Hospital (Dr. Pergam), Immanuel Hospital (Dr. Bender), OVAH (Drs. Saigh and Phalen).

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 shall pursue independent study under the direction of a faculty member. Opportunities exist for both clinical and basic research.

722 Radiation Therapy, Kumar and Good
   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, Quaife
   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
   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.
SURGERY
The Department of Surgery includes Sections of General Surgery, Cardiothoracic Surgery, Emergency Medicine, Neurosurgery, Oral Surgery, Pediatric 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 preclinical 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, Rikkers**

- Periods offered: Every 12 weeks
- Student limit: 30
- Semester hours: 12

The twelve week surgery clerkship is divided into two parts. The first consists of an eight week rotation on a general surgery service at one of the five participating hospitals. During that eight week rotation, the students are involved with all surgical patients admitted to their service. They participate in the care of the patients on the wards, in the operating room, and during their postoperative follow-up. At the end of the eight weeks, they are expected to understand the course of surgical illness, to be able to conduct themselves appropriately in the operating room and to have gained the skills commensurate with care of the surgical patient including intravenous access, placement of nasogastric tubes, etc.

The remaining portion of their rotation is spent in two week blocks on surgical subspecialties. There are five surgical subspecialties and the students choose to
participate in two of the five. During this time, the students gain exposure to the subspecialties which include: neurosurgery, orthopedics, ENT, urology, and ophthalmology. During their two weeks on each subspecialty, the students are expected to gain exposure to the subspecialty by participating in the outpatient clinic and the inpatient ward service. This is not primarily an operative experience but rather an experience designed to give the student a concept of when to refer patients to a particular subspecialty.

Throughout the entire twelve week clerkship, the students participate in an ongoing lecture series on Friday afternoons.

**722 Elective Pediatric Surgery Clerkship**
- Periods offered: Each 4 weeks
- Student limit: 1
- Semester hours: 4
- Childrens Memorial Hospital

**724 Elective Cardiothoracic Surgery Clerkship, Staff**
- Periods offered: Each 4 weeks
- Student limit: 2 (except by special arrangement)
- Semester hours: 4

**728 Elective General Surgery Clerkship**
- Periods offered: Each 4 weeks
- Student limit: 3 (except by special arrangement)
- 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.

**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. Tina Blair at the Department of Emergency Medical Services (402-259-5646).

**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

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 Beatrice, Gordon, 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.

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 is a joint program offered by the University of Nebraska Colleges of Medicine and Dentistry. 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 as a special student with advanced standing, provided he or she successfully passes the comprehensive examinations of the College of Medicine freshman and sophomore courses. Successful completion of these comprehensive examinations 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 some additional oral surgery training time. 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 anesthesiology, and maxillofacial radiology and research.

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, 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 have an opportunity 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 Division of Surgery.

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, Omaha; Drs. L. Hellbusch, R. Hacker, 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 Division. A student evaluation of the clerkship will be required upon completion of the clerkship.

799 Clinical and/or Bench Research Elective, Leibrock, Patil
   Periods 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, Methodist, and St. Joseph's Hospitals.

Urology — UROL

720 Hospital Clerkship, Dr. Jeffrey Buch
   Periods offered: Each 4 weeks
   Student limit: 5
   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. 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 Ms. Cheryl Kibler at ext. 4464.
761 Off-Campus Urology Elective
- Periods offered: Each 4 weeks
- Student limit: By arrangement
- Semester hours: 4
By special permission with the Division of Urology, Dr. Rodney Taylor, arrangements can be made for off-campus electives.

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, three-year program of clinical assignments utilizing the patient material and the faculty working at the Methodist Hospital, St. Joseph 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 a series of seminars and conferences in conjunction with the facilities of these respective hospitals. Pediatric seminars emphasizing this aspect of urology are taught in conjunction with the Department of Pediatrics.

774 Urology Chief Residency
A year-long, full-time clinical program with assignments at the Veterans Administration Hospital, Omaha. 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.
FACULTY LISTING

Abdouch, Ivan G., B.S. 1973 University of Nebraska-Lincoln, M.D. 1977 University of Nebraska College of Medicine, Clinical Associate, Family Practice

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, Assistant Professor, Pathology/Microbiology

Adkins, Deborah A., M.D. 1971 West Virginia, Clinical Instructor, Otolaryngology & Maxillo Facial Surgery

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Adwers, James R., M.D. 1969 University of Nebraska College of Medicine, Clinical Assistant Professor, Surgery

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Albers, John A., B.S. 1961 University of Nebraska-Lincoln, M.D. 1965 Tulane University, Clinical Instructor, Orthopedic Surgery

Alderman, Allen J., M.D. 1954 University of Nebraska College of Medicine, Clinical Associate, Family Practice

Allerheiligen, David A., B.S. 1970 University of Nebraska-Lincoln, M.D. 1975 University of Nebraska College of Medicine, Clinical Associate, Family Practice

Alliband, George T., M.D. 1936 University of Nebraska College of Medicine, Professor, Ophthalmology

Anderson, Jana G., B.S. 1980 University of Nebraska-Lincoln, M.D. 1984 University of Nebraska College of Medicine, Instructor, Family Practice

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Anderson, Robert C., B.S. 1953 University of Nebraska-Lincoln, M.D. 1957 University of Nebraska College of Medicine, Clinical Instructor, Family Practice

Andrews, Charles E., M.D. 1949 Boston University, Professor, Chancellor, University of Nebraska Medical Center

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Antonson, Dean L., B.A. 1970 Carleton College, M.D. 1974 University of Nebraska College of Medicine, Associate Professor, Pediatrics

Arkfeld, Dean Francis, B.S. 1978 Creighton University, M.D. 1980 University of Nebraska College of Medicine, Clinical Instructor, Ophthalmology

Arkfeld, Donald L., M.D. 1973 University of Nebraska College of Medicine, Clinical Instructor, Ophthalmology
Armitage, James O., B.S. 1969 University of Nebraska-Lincoln, M.D. 1973 University of Nebraska College of Medicine, Professor, Internal Medicine

Arqueros, Luis, Ph.D. 1966 University of Chile, Pharmacology

Arrasmith, K. Don, A.B. 1957 Hastings College, M.D. 1961 University of Nebraska College of Medicine, Clinical Assistant Professor, Family Practice

Asay, Garth F., B.S. 1979 Hastings College, M.D. 1983 University of Nebraska College of Medicine, Clinical Assistant Professor, Pediatrics

Ashby, Charles F., B.S. 1939 University of Nebraska-Lincoln, A.B. 1940 University of Nebraska-Lincoln, M.D. 1942 University of Nebraska College of Medicine, Clinical Assistant Professor, Family Practice

Asher, Ronald L., B.A. 1969 University of Nebraska-Lincoln, Clinical Assistant Professor, Internal Medicine

Ashley, Thomas R., A.B. 1976 Harvard University, M.D. 1982 Case Western Reserve, Clinical Assistant Professor, Internal Medicine

Auchmoedy, Joe L., B.S. 1965 University of Nebraska College of Medicine, M.D. 1968 University of Nebraska College of Medicine, Clinical Assistant Professor, Pathology/Microbiology


Babcock, Nita K., B.A. 1976 University of Nebraska-Lincoln, M.D. 1979 University of Nebraska College of Medicine, Clinical Assistant Professor, Anesthesiology

Bach, Stanley M., B.A. 1937 Dana College, Clinical Associate Professor, Orthopedic Surgery

Bacon, David L., M.D. 1962 University of Nebraska College of Medicine, Clinical Instructor, Internal Medicine

Bagby, Kenneth C., A.B. 1956 Nebraska Wesleyan University, M.D. 1960 University of Nebraska College of Medicine, Clinical Assistant Professor, Family Practice

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Bailey, William J., B.A. 1971 University of Iowa, M.D. 1975 Creighton University, Clinical Instructor, Family Practice

Bainbridge, Gordon D., B.A. 1953 Hastings College, M.D. 1967 University of Nebraska College of Medicine, Clinical Instructor, Orthopedic Surgery

Balsch, Steven D., B.A. 1977 Jamestown College, M.D. 1981 University of North Dakota School of Medicine, Clinical Assistant Instructor, Pediatrics

Baker, Robert N., B.A. 1944 Park College, M.D. 1949 University of Southern California, Clinical Professor, Internal Medicine

Baldwin, John D., B.A. 1952 University of Nebraska at Omaha, M.D. 1955 University of Nebraska College of Medicine, Clinical Assistant Professor, UPS Psychiatry-Academic

Balters, James P., B.S. 1975 University of Nebraska-Lincoln, M.D. 1978 University of Nebraska College of Medicine, Assistant Professor, Surgery

Bannarjee, Sreela G., M.B.B.S. 1956 Calcutta Medical College, Clinical Instructor, Anesthesiology

Barak, Anthony J., B.S. 1948 Creighton University, Ph.D. 1953 Missouri University, Clinical Professor, Biochemistry

Bare, James E., B.S. 1958 University of Nebraska-Lincoln, M.D. 1962 University of Nebraska College of Medicine, Clinical Associate, Family Practice

Bares, Harold R., B.A. 1973 St Cloud University, M.D. 1980 University of Nebraska College of Medicine, Clinical Assistant Professor, Ophthalmology

Barjenbruch, Kenneth P., M.D. 1965 University of Nebraska College of Medicine, Clinical Assistant Professor, Anesthesiology
Barmore, John L., M.D. 1946 University of Nebraska College of Medicine, Clinical Associate Professor, Anesthesiology

Barnwell, Robert B., B.S. 1954 University of Nebraska-Lincoln, M.D. 1958 University of Nebraska College of Medicine, Clinical Instructor, Family Practice

Barta, Lloyd L., M.D. 1946 University of Nebraska College of Medicine, Clinical Assistant Professor, Pathology/Microbiology

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Bartone, Francis F., A.B. 1953 University of Pennsylvania, M.D. 1957 Jefferson Medical, Professor, Surgery

Bartruff, Craig D., B.S. 1970 University of Nebraska-Lincoln, M.D. 1973 University of Nebraska College of Medicine, Clinical Associate, Family Practice

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Bass, Robert L., A.B. 1952 University of Nebraska at Omaha, M.D. 1956 University of Nebraska College of Medicine, Associate Professor, Family Practice

Bassett, Craig A., B.S. 1971 University of Nebraska-Lincoln, M.D. 1974 University of Nebraska College of Medicine, Clinical Assistant Professor, Obstetrics/Gynecology

Bastani, J. Boman, M.B. B.S. 1966 B.j. Medical College, Clinical Assistant Professor, UPS Psychiatry-Academic

Bausch, Lawrence, B.S. 1963 Creighton University, M.D. 1968 University of Nebraska College of Medicine, Clinical Assistant Professor, Pediatrics

Baxter, David A., B.A. 1964 University of Nebraska at Omaha, M.D. 1968 University of Nebraska College of Medicine, Clinical Instructor, Anesthesiology

Bean, Elmer O., M.D. 1945 Bowman Gray School, Clinical Assistant Professor, Pediatrics

Beavers, Dennis D., B.S. 1961 University of Nebraska-Lincoln, Clinical Assistant Professor, Obstetrics/Gynecology

Bechtel, Melvin D., M.D. 1982 University of Nebraska College of Medicine, Clinical Assistant Professor, Family Practice

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Becker, Gerald L., B.S. 1962 Massachusetts Institute of Technology, M.D. 1966 University of Chicago, Assistant Professor, Anesthesiology

Becker, William F., B.S. 1958 University of Nebraska-Lincoln, M.D. 1962 University of Nebraska College of Medicine, Clinical Assistant Professor, Family Practice

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Beisel, Kirk W., Ph.D. 1978 Rutgers State University, Associate Professor, Pathology/Microbiology

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Benee, Jackson J., B.A. 1954 Hastings College, M.D. 1958 University of Nebraska College of Medicine, Clinical Instructor, Orthopedic Surgery

Bender, Paul J. Jr., B.S. 1974 Nebraska Wesleyan University, M.D. 1977 University of Nebraska College of Medicine, Clinical Assistant Professor, Radiology

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Bennett, Donald R., B.A. 1951 Va Milita, M.D. 1955 Georgetown University, Professor, Internal Medicine
Benthack, Robert B., M.D. 1947 University of Nebraska College of Medicine, Clinical Associate, Family Practice
Beran, Russell E., B.A. 1955 Hastings College, M.D. 1963 University of Minnesota, Clinical Assistant Professor, Family Practice
Berlin, Jon S., B.A. 1974 Columbia University, M.D. 1979 Loyola Stritch, Clinical Assistant Professor, UPS Psychiatry-Academic
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Bonebrake, Arden H., M.D. 1947 University of Iowa, Clinical Instructor, Family Practice
Books, Norval Leon, B.A. 1970 Phillips University, M.D. 1973 University of Nebraska College of Medicine, Clinical Instructor, Family Practice
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Bosley, Warren, A.B. 1942 University of Nebraska-Lincoln, M.D. 1944 University of Nebraska College of Medicine, Clinical Associate Professor, Pediatrics
Bowen, Mary Kay, B.A. 1971 Marillac College, M.D. 1981 University of Nebraska College of Medicine, Instructor, Pediatrics
Braddock, Suzanne W., B.A. 1964 Marymount College, M.D. 1977 University of Nebraska College of Medicine, Assistant Professor, Internal Medicine
Bragg, Larry E., B.S. 1978 Kearney State College, M.D. 1982 University of Nebraska College of Medicine, Assistant Professor, Surgery
Brainard, Andrew A., B.S. 1976 University of Nebraska-Lincoln, M.D. 1979 University of Nebraska College of Medicine, Clinical Associate, Family Practice
Brandt, Thomas R., B.S. 1976 University of Nebraska-Lincoln, M.D. 1981 University of Nebraska College of Medicine, Clinical Assistant Professor, Internal Medicine
Brauer, Russell C., A.B. 1949 University of Nebraska-Lincoln, M.D. 1951 University of Nebraska College of Medicine, Clinical Assistant Professor, Anesthesiology
Bray, Robert F., B.A. 1977 University of California, M.D. 1981 University of California, Clinical Instructor, Family Practice
Bressman, Charles M., A.B. 1951 University of Nebraska College of Medicine, M.D. 1955 University of Nebraska College of Medicine, Clinical Assistant Professor, Family Practice
Brett, Dale E., B.A. 1954 University of Oklahoma, M.D. 1958 University of Oklahoma, Clinical Instructor, Surgery
Brinegar, Willard C., B.Ed. 1933 Illinois State University, B.S. 1935 University of Nebraska-Lincoln, M.D. 1937 University of Nebraska College of Medicine, Clinical Assistant Professor, UPS Psychiatry-Academic
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Brouillette, Richard F., B.S. 1963 University of Nebraska-Lincoln, M.D. 1965 University of Nebraska College of Medicine, Clinical Instructor, Family Practice
Browne, Kenneth M., M.D. 1944 University of Nebraska College of Medicine, Senior Consultant, Surgery
Bruce, V. Roger, M.D. 1968 University of Texas, Clinical Instructor, Family Practice
Brumm, Bruce H., B.S. 1972 University of Nebraska-Lincoln, M.D. 1975 University of Nebraska College of Medicine, Clinical Instructor, Ophthalmology
Brush, John H., A.B. 1939 University of Nebraska-Lincoln, M.D. 1943 University of Nebraska College of Medicine, Clinical Associate Professor, Surgery
Buch, Jeffrey P., B.S. 1976 University of Michigan, M.D. 1980 University of Michigan Medical, Assistant Professor, Surgery
Buckley, John F., B.S. 1973 Washington And Lee University, M.D. 1979 University of Nebraska College of Medicine, Clinical Instructor, Surgery
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Bunting, Richard A., B.S. 1949 University of Denver, Clinical Associate Professor, Radiology
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Burgher, Louis W., B.S. 1967 University of Nebraska-Lincoln, M.D. 1970 University of Nebraska College of Medicine, Internal Medicine
Burnett, David A., B.S. 1968 Rockhurst College, M.D. 1972 University of Nebraska College of Medicine, Associate Professor, Internal Medicine
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Byington, Robert T., B.S. 1967 University of Nebraska-Lincoln, M.D. 1971 University of Nebraska College of Medicine, Clinical Assistant Professor, Obstetrics/Gynecology
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Calkins, Robert C., B.S. 1946 University of Nebraska-Lincoln, M.D. 1949 University of Nebraska College of Medicine, Clinical Assistant Professor, UPS Psychiatry-Academic
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Calvert, Thomas Dale, B.S. 1954 Nebraska Wesleyan University, M.D. 1958 University of Nebraska College of Medicine, Clinical Assistant Professor, Pediatrics
Campbell, Allan S., B.A. 1973 University of Nebraska-Lincoln, M.D. 1978 University of Nebraska College of Medicine, Clinical Instructor, Surgery
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Campbell, J. Kemper, B.A. 1965 University of Kansas, M.D. 1968 University of Kansas, Clinical Instructor, Ophthalmology
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Campbell, Melvin A., A.B. 1970 University of Nebraska-Lincoln, M.D. 1974 University of Nebraska College of Medicine, Clinical Associate, Family Practice
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Chakraparty, Anup Kumar, M.B.B.S. 1971 B.S. Medical College, M.D. 1976 Prigmer, Clinical Assistant Professor, Internal Medicine

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Chartrand, Stephen D., B.A. 1971 Kansas University, Clinical Associate Professor, Pediatrics

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Chilian, Peter C., B.A. 1969 Stanford University, M.D. 1973 University of Colorado, Clinical Assistant Professor, Anesthesiology

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Christensen, Gerald R., B.S. 1957 Oregon State University, M.D. 1961 University of Oregon Medical, Associate Professor, Ophthalmology

Christensen, Mark A., B.S. 1969 University of Nebraska-Lincoln, M.D. 1973 University of Nebraska College of Medicine, Clinical Assistant Professor, Surgery

Chu, Wei-Korn, B.S. 1970 Taiwan Cheng University, M.S. 1973 North Dakota State University, M.S. 1976 University of Oklahoma, Ph.D. 1977 University of Oklahoma, Associate Professor, Radiology

Clark, Francis J., B.S. 1956 Northwestern University, M.S. 1957 Purdue University, Ph.D. 1965 Purdue University, Professor, Physiology/Biophysics

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Clinch, Steven L., B.A. 1973 Hastings College, M.D. 1977 University of Nebraska College of Medicine, Clinical Assistant Professor, Surgery

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Coe, John D., A.B. 1941 Hastings College, M.D. 1944 University of Nebraska College of Medicine, Senior Consultant, Surgery
Cohen, Samuel M., B.S. 1967 University of Wisconsin, Ph.D. 1972 University of Wisconsin, M.D. 1972 University of Wisconsin, Professor, Pathology/Microbiology
Colan, David R., Clinical Assistant Professor, Internal Medicine
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Colombo, John L., B.A. 1971 University of Nebraska-Lincoln, M.D. 1975 University of Nebraska College of Medicine, Assistant Professor, Pediatrics
Commers, James R., M.D. 1976 University of Nebraska College of Medicine, Clinical Assistant Professor, Internal Medicine
Connell, Gary L., A.B. 1967 Kearney State College, M.D. 1971 University of Nebraska College of Medicine, Clinical Instructor, Family Practice
Coney, Ponjola, B.S. 1973 Xavier University, M.D. 1978 University of Mississippi, Assistant Professor, Obstetrics/Gynecology
Connolly, Dennis M., B.S. 1977 University of Nebraska College of Medicine, M.D. 1977 University of Nebraska College of Medicine, Clinical Instructor, Family Practice
Connolly, John, B.A. 1957 St Peters College, M.D. 1961 New Jersey College, Professor, Orthopedic Surgery
Connolly, John J., M.D. 1959 Creighton University, Clinical Associate Professor, Internal Medicine
Cooper, Ronald A., B.S. 1968 University of Iowa, M.D. 1971 University of Iowa, Clinical Assistant Professor, Internal Medicine
Copenhagen, John H., B.S. 1956 University of Nebraska-Lincoln, Ph.D. 1963 Kansas State University, Professor, UPS Psychiatry-Academic
Copple, W. Benton, B.S. 1964 University of Nebraska-Lincoln, M.D. 1968 University of Nebraska College of Medicine, Clinical Assistant Professor, Radiology
Corley, Kevin P., B.S. 1968 University of Illinois, M.D. 1972 University of Illinois School of Medicine, Clinical Assistant Professor, Pediatrics
Cornellius, Carl J., M.D. 1951 Creighton University, Clinical Instructor, Family Practice
Cornish, Kurtis G., B.S. 1971 Brigham Young U, M.S. 1973 Brigham Young U, Ph.D. 1977 Wake Forest University, Associate Professor, Physiology/Biophysics
Cotton, Joel T., B.S. 1970 University of Nebraska-Lincoln, M.D. 1974 University of Nebraska College of Medicine, Clinical Assistant Professor, Internal Medicine
Cox, G. Stanley, B.S. 1968 New Mexico State University, Ph.D. 1973 University of Iowa, Associate Professor, Biochemistry
Crabb, Winston D., B.S. 1965 Northwestern, M.D. 1967 Northwestern, Clinical Assistant Professor, Obstetrics/Gynecology
Craig, Ronald D., A.Bs. 1965 Fairbury College, M.D. 1970 University of Nebraska College of Medicine, Clinical Instructor, Family Practice
Crawford, Michael N., B.A. 1970 Creighton University, M.D. 1975 University of Nebraska College of Medicine, Clinical Instructor, Otolaryngology & MaxilloFacial Surgery
Crawford, Mark E., A.B. 1956 University of Nebraska College of Medicine, M.D. 1957 University of Nebraska College of Medicine, Clinical Assistant Professor, Ophthalmology
Crew, James D., B.S. 1974 University of Nebraska-Lincoln, M.D. 1976 University of Nebraska College of Medicine, Clinical Associate, Family Practice
Crossman, Raymond M. III, M.D. 1974 University of Nebraska College of Medicine, Clinical Instructor, Ophthalmology
Crotty, Richard Q., B.S. 1945 Creighton University, Clinical Professor, Internal Medicine
Crouse, David A., B.S. 1966 Western Illinois, M.S. 1968 Western Illinois, Ph.D. 1974 University of Iowa, Professor, Anatomy

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Curry, Douglas W., B.S. 1967 University of Nebraska-Lincoln, M.D. 1971 University of Nebraska College of Medicine, Clinical Instructor, Family Practice

Curtis, Gary L., B.A. 1966 Nebraska Wesleyan University, Ph.D. 1971 University of Nebraska-Lincoln, Associate Professor, Ob/Gyn Research Lab

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Czaplewski, Rodney R., M.D. 1974 University of Nebraska College of Medicine, Clinical Instructor, Family Practice

Dabestani, Ali, M.D. 1974 Shiraz University, Associate Professor, Internal Medicine

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Fuss, Alan G., B.S. 1975 University of Nebraska-Lincoln, M.D. 1978 University of Nebraska College of Medicine, Clinical Assistant Professor, Pediatrics
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<tr>
<th>Name</th>
<th>Degree(s) 1</th>
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<tr>
<td>Gallagher, Thomas F.</td>
<td>B.A. 1950</td>
<td>M.D. 1962</td>
<td>University of Chicago, M.D. 1962 University of Chicago, Associate Professor, Internal Medicine</td>
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<tr>
<td>Gard, Joseph R.</td>
<td>B.A. 1966</td>
<td></td>
<td>Loras College, M.D. 1970 University of Iowa, Clinical Associate Professor, Internal Medicine</td>
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<tr>
<td>Gardner, Paul Jay</td>
<td>A.B. 1951</td>
<td>M.S. 1955</td>
<td>Wichita State University, M.S. 1955 Wichita State University, Ph.D. 1984 University of Nebraska College of Medicine, Professor, Anatomy</td>
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<td>Gardner, Walter E.</td>
<td>B.S. 1970</td>
<td>M.D. 1975</td>
<td>University of Nebraska-Lincoln, M.D. 1975 University of Nebraska College of Medicine, Clinical Instructor, Family Practice</td>
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<td>Garland, Emily M.</td>
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<td></td>
<td>Duke University, Ph.D. 1982 University of Maryland, Instructor, Pathology/Microbiology</td>
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<tr>
<td>Garlinghouse, Richard E.</td>
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<td>M.D. 1934</td>
<td>University of Kansas, M.D. 1934 University of Pennsylvania, Senior Consultant, Obstetrics/Gynecology</td>
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<tr>
<td>Garvin, Kevin L.</td>
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<td>Garvin, William F.</td>
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<td>Garwood, Vernon F.</td>
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<td>Gasseling, Philip A.</td>
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<td>Gelger, Gerald F.</td>
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<td>Gentry, Harold E.</td>
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<td>M.D. 1952</td>
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<tr>
<td>Gentry, Richard D.</td>
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<td>Gillies, Ray O. Jr.</td>
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<td>Gilmore, Joseph P.</td>
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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, 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 qualified 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 in 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
Sections 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.
In addition to individual College bulletins, the following publications offer pertinent information for students:

"Life at The University of Nebraska Medical Center" — a reference guide to student life at the Medical Center

"UNMC Student Handbook" — a reference guide for the students enrolled at the Medical Center

"Bylaws of the Board of Regents" — a University governance document of the University of Nebraska

These may be obtained through the Office of Public Affairs.

For additional information, please write:
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or
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