*MED 616 BIOLOGY AND THERAPY OF CANCER. (3)
Biological and cellular aspects of the biology of cancer will be discussed at the molecular, cellular and organismic level. Emphasis will be placed on cellular signaling, genomic instability, apoptosis and cell cycle pathways unique to cancer cells that affect tumor cell behavior and its interactions with the host immune system. The biology of hematopoietic cells will also be included. Clinicians active in treatment and research of various types of cancer will be invited to participate in the lectures. Prereq: IBS 601, IBS 602, and/or IBS 603 (or comparable course in biochemistry, molecular biology or cell biology) or otherwise by consent of course director. (Same as MI/PHA/TOX 616.)

MED 815 FIRST-YEAR ELECTIVE, MEDICINE. (1-3)
With the advice and approval of his or her faculty adviser, the first-year student may choose approved electives offered by the Department of Medicine. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required work in the first-year curriculum. Pass-fail only. Prereq: Admission to first year, College of Medicine.

MED 825 SECOND-YEAR ELECTIVE, MEDICINE. (1-4)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Medicine. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser.

#MED 849 ELECTIVE: EXTRAMURAL ROTATION IN INTERNAL MEDICINE. (4)
Clinical electives allow students to gain exposure to medical specialties reflecting their career interests. Extramural electives allows students to experience clinical care in different environments at different institutions. Through this extramural clinical elective, the student will complete a clinical rotation in Internal Medicine at another institution. The specific rotation details and institution must be approved by the course director. Prereq: Promotion to the Advanced Development Phase of the M.D. curriculum.

MED 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

Approved electives:
MED 850 ELECTIVE: ENDOCRINOLOGY AND METABOLISM
MED 851 ELECTIVE: GASTROENTEROLOGY
MED 852 DERMATOLOGY-SECTION 1
MED 856 ELECTIVE: NEPHROLOGY
MED 857 ELECTIVE: PULMONARY MEDICINE
MED 858 ELECTIVE: CARDIOLOGY
MED 860 ELECTIVE: INFECTIOUS DISEASES
#MED 861 ELECTIVE: WOMEN’S HEALTH
MED 862 CARDIOLOGY-VAH
MED 863 ELECTIVE: RESEARCH IN INTERNAL MEDICINE
#MED 864 ELECTIVE: ADDICTION MEDICINE
MED 865 ELECTIVE: SLEEP MEDICINE
MED 867 ELECTIVE: PATIENT SAFETY AND HEALTH CARE SYSTEMS
MED 870 ACTING INTERNSHIP IN MEDICINE
MED 871 ACTING INTERNSHIP IN CRITICAL CARE MEDICINE
MED 872 ACTING INTERNSHIP IN MED-PEDS
MED 873 ELECTIVE: GENERAL MEDICINE SPECIALTIES AND CLINICS
MED 874 ELECTIVE: UNIVERSITY HEALTH SERVICE
MED 875 ELECTIVE: AMBULATORY MDS-PEDS
MED 876 ELECTIVE: HEMATOLOGY ONCOLOGY
MED 879 GENERAL MEDICAL CONSULTING SERVICE
MED 890 ELECTIVE: INTERNAL MEDICINE OFF-SITE
#MED 901 ACTING INTERNSHIP: COMMUNITY INTERNAL MEDICINE IN MOREHEAD. (4)
This primary acting internship takes place in Morehead and is a four-week rotation focused on hospital or inpatient medicine in a community setting. Practicing medicine in a community hospital is unique from an academic center. The acting intern will be expected to perform the initial evaluation of a patient and follow the patient through the course of the hospitalization. S/he will be responsible for writing orders and documenting in a timely manner. Night call, cross cover, and hand offs are expected. Supervision by attending or resident. Anticipate minimum 60 hours per week. Prereq: Successful completion of MED 835 and promotion to fourth year of M.D. program.

#MED 902 ELECTIVE: GASTROENTEROLOGY IN MOREHEAD. (4)
The clinical elective in community gastroenterology is a four-week rotation that allows the student to obtain in-depth exposure to an expert preceptor in a rural area. The student will experience the day-to-day activities of this clinician in the inpatient and outpatient setting. Prereq: Successful promotion to the fourth year of M.D. program.