
422. **Hematology and Hemostasis** Fall, 4(0-3). Cellular and humoral immunity, diseases of immunity. Clinical serology and immunology, blood group serology, and transfusion practices. QA: MT 520 QA: MT 440, MT 449.


477. **Advanced Clinical Microbiology Laboratory** Fall, Spring, Summer. 3 credits. C: MT 475 R: Open only to seniors in Clinical Laboratory Sciences. Theory of clinical microbiology. Integration of cognitive material with laboratory results. QA: MT 484.

478. **Advanced Clinical Microbiology** Fall, Spring, Summer. 1 credit. C: MT 477 R: Open only to seniors in Clinical Laboratory Sciences. Theory of clinical microbiology. Integration of cognitive material with laboratory results. QA: MT 484.

487. **Advanced Clinical Chemistry and Body Fluids Laboratory** Fall, Spring, Summer. 4 credits. C: MT 474 R: Open only to seniors in Clinical Laboratory Sciences. Application of the theory of hematology, hemostasis, and body fluid analysis. QA: MT 482, MT 486, MT 487.

483. **Advanced Clinical Immunology and Hemostasis Laboratory** Fall, Spring, Summer. 2 credits. C: MT 476 R: Open only to seniors in Clinical Laboratory Sciences. Application of immunology and immunohematology principles. QA: MT 483, MT 485.

484. **Clinical Immunology and Immunohematology Laboratory** Spring, 1(0-3). C: MT 478 R: Open only to Clinical Laboratory Sciences majors. Immunologic methods for disease detection. Methods of blood typing and pre-transfusion testing. QA: MT 414, MT 440.

495. **Directed Study** Fall, Spring, Summer, 1 to 3 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to Clinical Laboratory Sciences majors. Faculty directed study including assigned readings, review of appropriate scientific periodicals, and research laboratory experience. QA: MT 485.

801. **Medical Technology Seminar** Spring, 1(0-0). A student may earn a maximum of 2 credits in all enrollments for this course. R: Open only to graduate students in Clinical Laboratory Sciences. Current research topics in clinical laboratory sciences. QA: MT 890.

810. **Research Planning in the Clinical Laboratory Sciences** Fall of odd-numbered years, 2(2-0). R: Open only to graduate students in Clinical Laboratory Sciences. Directed reading and discussions on research methodology and research funding. Written and oral proposal presentations. QA: MT 810.

812. **Advanced Clinical Chemistry** Spring of odd-numbered years, 2(2-0). R: Open only to graduate students in Clinical Laboratory Sciences. Biochemical basis of selected pathologic conditions including inborn errors of metabolism, endocrine and other genetic disorders. Emphasis on current diagnostic techniques.

### MEDICINE

**Department of Medicine**

**College of Human Medicine**

512. **Infectious Diseases** Spring, 4 credits. Interdepartmental with Microbiology. R: Open only to graduate-professional students in College of Human Medicine. Infectious diseases of humans. Biology of the causative microorganism, epidemiology, pathogenesis, host-parasite relationships, clinical and laboratory diagnosis, and clinical management. QA: MED 512.

590. **Special Problems in Medicine** Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate-professional students in College of Human Medicine. Supervised work on an experimental, theoretical, or applied problem. QA: MED 590.

608. **Internal Medicine Clerkship** Fall, Spring, Summer, 2 to 18 credits. A student may earn a maximum of 42 credits in all enrollments for this course. R: Open only to graduate-professional students in College of Human Medicine. Community hospital clerkship. Interviewing skills, history, physical examination. Problem solving and therapy. Care of the whole patient leading to independence in patient management. QA: MED 608.
609. Hematology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 301; MPH 302; MPH 401; MPH 421
R: Open only to graduate-professional students in College of Human Medicine.
Data collection, problem solving, and management related to common hemostatic disorders of children and adults.
QP: MPH 308 QA: MPH 609

610. Oncology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 QA: College of Human Medicine.
QP: MPH 608 QA: College of Human Medicine.
Data collection, problem solving and management of prevalent cancers in children and adults.
QP: MED 608 QA: MED 610

611. Cardiology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Evaluation of patients with cardiovascular diseases. Special diagnostic procedures including cardiac catheterization, phonocardiography, echocardiography, and electrophysiology.
QP: MED 608 QA: MED 611

612. Nephrology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
QP: MED 608 QA: MED 612

613. Dermatology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Integrated concepts of normal physiology and pathophysiology of dermatological problems in ambulatory and hospital settings. Emphasis on continuity and comprehensive care.
QP: MED 608 QA: MED 613

614. Medical Chest Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Clinical experiences in ambulatory and hospital settings, including respiratory care and therapy.
QP: MED 608 QA: MED 614

615. Gastroenterology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Clinical experiences in ambulatory and hospital settings. Emphasis on continuity and comprehensive care.
QP: MED 608 QA: MED 615

616. Allergy Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Ambulatory and hospital based experience to develop diagnostic skills in allergy. Review of basic therapeutics related to allergic diseases.
QP: MED 608 QA: MED 616

617. Neurology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
QP: MED 608 QA: MED 617

618. Infectious and Immunologic Diseases Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Clinical problems in infectious and immunologic diseases. Integrated basic science input is provided in seminars.
QP: MED 608 QA: MED 618

621. Endocrinology and Metabolism Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Clinical and research clerkship: endocrine diseases, electrolyte abnormalities, endocrine hypertension, or diabetes mellitus.
QP: MED 608 QA: MED 620

626. Physical Medicine and Rehabilitation Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Developing regimens for physical medicine procedures, occupational therapy and rehabilitation skills.
QP: MED 608 QA: MED 626

627. Rheumatology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Combined ambulatory and hospital consultative clerkship for diagnostic skills in areas of rheumatic diseases.
QP: MED 608 QA: MED 627

628. Advanced Internal Medicine
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Clinical experiences in advanced internal medicine.
QP: MED 608 QA: MED 628

630. Emergency Medicine Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Clinical diagnosis and treatment of emergent problems in community emergency departments.
QP: MED 608 QA: MED 830

632. Occupational Medicine Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MPH 608 R: Open only to graduate-professional students in College of Human Medicine.
Health problems of chemical and mineral dust, radiation, and repetitive trauma.
QP: MED 608 QA: MED 632

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