

# Medical Education

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Note: Ordinarily, only students enrolled at the University of Washington School of Medicine register to take medical education courses. Matriculated graduate and senior undergraduate students may register for credit in certain medical education courses under appropriate circumstances. In such cases prior approval must be obtained from the faculty member chairing the course and the WWAMI director. Permission to register will usually depend on the student also having approval from his or her academic advisor (senior undergraduate students must also obtain approval from the vice provost for research and graduate studies) and be limited to not more than two medical education courses per semester. MedS 505 (Preceptorship) and MedS 513, 522, and 535 (Introduction to Clinical Medicine I, II, and III) are closed to all but WWAMI medical students.

## **MedS 501 (s) Seminar (cr arr)**

### **MedS 502 (s) Directed Study (cr arr)**

Areas normally offered are directed dissection of the extremities, trunk, head, neck, abdomen, and pelvis; endocrinology, physiology, and other medically related studies. (Spring only)

## **MedS 504 (s) Special Topics (cr arr)**

### **MedS 505 Preceptorship (1 cr)**

Provides opportunity for first-year medical students to gain personal experience with and insight into medical practice situations; the student will be stationed with physicians in their offices in accordance with preference of discipline and availability at the WWAMI sites.

### **MedS ID&WS510 Microscopic Anatomy (4 cr) WSU Med S 510**

Provides the principles and concepts of histology, defines the morphological characteristics of the cells, tissues and organs of the human body and relates this information to functional processes. Three lec and one 3-hr lab a wk. (Fall only)

### **MedS ID&WS511 Anatomy and Embryology 1 (5 cr) WSU Med S 511**

Presents understanding of the formation and 3-dimensional relationships of the major structures in the human body. This is a laboratory course where the diversity variability and adaptability of the human phenotype will be examined in the dissection laboratory and in living anatomy. Focus is on trunk anatomy. Two lec and one 3-hr lab a wk. (Fall only)

### **MedS ID&WS512 Mechanisms in Cellular Physiology (3 cr) WSU Med S 512**

Presents fundamental cellular events underlying the following topics: physiology of the cell membrane including ionic and electrical potential gradients, active transport, excitability and action potentials; biophysics of sensory receptors; neuromuscular transmission; muscle energetics and contractility; spinal reflexes and central synaptic transmission; autonomic nervous system; energy metabolism and temperature regulation; epithelial transport; gastrointestinal motility and secretions. (Fall only)

### **MedS ID&WS513 Introduction to Clinical Medicine I (2 cr) WSU Med S 513**

Exposees students to clinical skills and professional issues with instruction in interview techniques that form the basis for the doctor-patient relationship and the skills of communicating with patients. (Fall only)

### **MedS ID&WS514 Biochemistry I (3 cr) WSU Med S 514**

Focuses on how the genome serves as a source of information, and how molecular understanding of gene function produces new therapeutic and diagnostic tools. Topics include how genetic information is stored, mobilized, and used; targets of regulation; molecular medicine; cancer; and genomic therapies. (Fall only)

### **MedS ID&WS516 Systems of Human Behavior I (1 cr) WSU Med S 516**

Selected overview of contributions from behavioral sciences to clinical practice of primary care physicians. Sensitizes students to impact of such factors as emotional and physical development, cultural backgrounds, social roles, families, sexual identities, and belief systems upon their effectiveness as physicians. Encourages appreciation of the role of behavioral factors in major management problems faced in medical practice; covers physical and psychological development of the individual from the embryo through old age; teaches skills in analyzing behavior, defining behavior objectives, and designing precise treatment strategies to obtain these objectives. (Fall only)

### **MedS ID&WS522 Introduction to Clinical Medicine II (2 cr) WSU Med S 522**

Continuation of communication skills especially as related to medical history and professionalism.

### **MedS ID&WS523 Introduction to Immunology (2 cr) WSU Med S 523**

Provides a medically relevant foundation regarding the principles of the immune system and the vocabulary and language of immunology; a working knowledge of the immunological basis for defense against infection, immune-mediated pathology, immunodeficiency, and immunological barriers to transplantation; and familiarity with beneficial therapies to modulate the immune response. (Fall only)

### **MedS ID&WS524 Biochemistry II (2 cr) WSU Med S 524**

Presents metabolism, as integrated at the level of the intact mammalian organism for the purpose of generating energy from food and converting small molecules to essential building blocks of our cells. Fundamental principles of nutrition and chemotherapy of viral, bacterial and neoplastic diseases will also be discussed. (Spring only)

**MedS ID&WS526 Systems of Human Behavior II (2 cr) WSU Med S 526**  
Continuation of MedS 516. (Fall only)

**MedS ID&WS531 Anatomy and Embryology 2 (4 cr) WSU Med S 531**

Continuation of MedS 511. Presents understanding of the formation and 3-dimensional relationships of the major structures in the human body. This is a laboratory course where the diversity variability and adaptability of the human phenotype will be examined in the dissection laboratory and in living anatomy. Focus on Head & Neck anatomy. (Spring only)

**MedS ID&WS532 Nervous System (5 cr) WSU Med S 532**

Presents the structure and function of the nervous system, including the eye. Neuropathological examples are presented as well as clinical manifestations of neurological disease. (Spring only)

**MedS ID&WS534 Microbiology and Infectious Diseases (6 cr) WSU Med S 521**

Introduces medical microbiology and infectious disease. Emphasis is on the biology of microbial pathogens and the mechanisms of pathogenesis. Lectures also cover clinical manifestations, epidemiology, and general principles of diagnosis, therapy, and prevention of infectious disease. (Spring only)

**MedS ID&WS535 Introduction to Clinical Medicine III (3 cr) WSU Med S 535**

Teaches the basic physical exam of the adult through use of lectures, audiovisual aids and small group tutorials where students in supervised settings learn and practice the physical exam. Students are introduced to principals of clinical reasoning and continue to explore professional issues. (Spring only)

**MedS ID&WS553 Anatomy & Embryology (Musculoskeletal) (4 cr)**

The course includes anatomy and clinical lectures, gross anatomy labs and living anatomy / clinical correlation small groups. In addition, there is required work in radiology on the internet. All in-class activities rely heavily on the independent study you are expected to do in preparation for each class. There will be a quiz at the start of class each day, on that day's material Prepare for class to be an asset to your group.

**MedS ID&WS590 Medical Information for Decision Making (1 cr) WSU Med S 590**

Examines medical literature for the purpose of primary research, diagnosis, and therapeutic and preventative intervention. (Spring only)