Medicine Doctorate (MD)

Courses

**MD A602 Introductory Primary and Continuity Care Clerkship 1-2 Credits**
Introduces medical students to continuity of care by working with practicing physicians. Course demonstrates how to work with individuals to help them achieve optimal health, and includes topics in primary and preventative care, geriatrics, rehabilitation, palliative care, behavioral health, and pain management.

*Special Note:* May be repeated twice for credit.

*Registration Restrictions:* Admission to WWAMI MD program

**MD A603 Clinical Skills 3-4 Credits**
Instruction in communication skills, interviewing techniques, physical examination, documentation and clinical reasoning to introduce the physician role. Course will include hospital-based patient encounters to develop comfort with the physician role.

*Special Note:* May be repeated twice for credit.

*Registration Restrictions:* Admission to WWAMI MD program

**MD A610 Molecular and Cellular Basis of Disease 6 Credits**
Introduces cell physiology, cell biology, and cell function, genes, genetics and genetic diseases/disorders incorporating fundamental principles in anatomy, pathology and pharmacology. Topics include membrane physiology, sensory receptors, muscle energetics and contractility, autonomic nervous system, tissue response to disease, pharmacodynamics, pharmacokinetics and pharmacogenetics.

*Registration Restrictions:* Admission to WWAMI MD program

**MD A620 Invaders and Defenders 5 Credits**
Introduces the immune system, microbial biology, infectious diseases, inflammation and repair, and skin and connective tissue incorporating applicable fundamental principles in anatomy, pathology and pharmacology. Topics discussed include the pathogenesis and immunity of infectious disease, immunodeficiencies, hypersensitivity, autoimmunity, and the basis of immunologic diagnostics.

*Registration Restrictions:* Admission to WWAMI MD program

**MD A630 Circulatory System 9 Credits**
Provides an interdisciplinary approach to cardiovascular, respiratory and renal-urinary medicine, including anatomy, physiology, imaging, pathology, medicine and surgery.

*Registration Restrictions:* Admission to WWAMI MD program

**MD A640 Blood and Cancer 2 Credits**
Introduces fundamental principles of hematology and oncology, incorporating relevant concepts from anatomy, histology, pathology, imaging and pharmacology. Topics include abnormalities of hemostasis, basic pathophysiologic mechanisms leading to disturbances of blood cells, and mechanisms of genetic dysregulation in neoplasia, including the etiology, presentation and treatment of archetypal cancers.

*Registration Restrictions:* Admission to the WWAMI MD program

**MD A650 Energetics and Homeostasis 5 Credits**
Introduces the physiology and pathology of digestion and hepatic function, including obesity and diabetes, principles and practice of clinical nutrition, the endocrine integration of metabolism, and clinically important endocrine pathophysiology, including relevant topics of anatomy, pathology and pharmacology.

*Registration Restrictions:* Admission to WWAMI MD program

**MD A660 Mind, Brain and Behavior 8 Credits**
Presents the organization and function of the head, neck and central nervous system with a focus on clinically applying this knowledge to systematically approach the differential diagnosis and management of major neurologic, psychiatric and behavioral disorders. Current therapeutic approaches to disease are explained, including pharmacological, behavioral, surgical and other therapies.

*Registration Restrictions:* Admission to WWAMI MD program

**MD A670 Lifecycle and Reproduction 4 Credits**
Introduces normal and abnormal human development, reproductive functions including ova and sperm development, menstruation, normal pregnancy, and labor and delivery along with infertility, family planning techniques, and reproductive aging; integrates relevant fundamental principles in pelvic anatomy, pathology, histology, imaging and pharmacology.

*Registration Restrictions:* Admission to WWAMI MD program