Prerequisites:
Registration Restrictions:
Special Note:
of systems thinking.
health, health economics, patient safety, health metrics, and application
integrity, high-functioning teams, influence of individual factors on
components of Ecosocial Model, ethical case analysis, advocacy and
medicine, including the themes of diversity; health equity; ethics;
professionalism; and determinants of health, such as accountability in
health disparities, ethical case analysis, excellence, conflict resolution,
primary care and rural medicine systems, informed medical decision
making, advanced patient safety, global burden of disease, application
of systems thinking.
Special Note: This course is taught in a 1-week intensive format.
Registration Restrictions: Admission to WWAMI MD program
Prerequisites: MD A604 and MD A605 and MD A606.

MD A608 Clinical Epidemiology 2 Credits
Introduces methods for identifying, interpreting and applying high
quality, relevant published medical research and evidence to the
practice of clinical medicine for effective preventative and therapeutic
interventions. Topics include research study design of randomized
trials, measures of effect, interpretation of causal relationships, contexts
for screening and diagnosis, interpretation of test results, application of
statistical measures, systematic reviews and meta-analyses.
Special Note: This course is taught on a compressed schedule.
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
contractibility, 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 3 Credits
Introduces fundamental principles of hematology and oncology,
incorporating relevant concepts from anatomy, histology, pathology,
imaging and pharmacology. Topics include abnormalities in hemostasis
and blood cells, genetic dysregulation in neoplasia, and the etiology,
presentation and treatment of archetypal cancers.
Registration Restrictions: Admission to the WWAMI MD program
MD A641 Musculoskeletal System 2 Credits
Introduces fundamental principles of musculoskeletal system, incorporating relevant concepts from anatomy, histology, pathology, imaging and pharmacology. Topics include anatomical structures of limbs and spine, and disorders of the musculoskeletal system.

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

MD A698A Independent Investigative Inquiry - III 6 Credits
Engages students in research activities in either hypothesis-driven, rural/underserved experience-driven, global-health experience-driven, simulation development-driven, or systematic literature review that will foster the skills of life-long learning essential for practicing physicians in the 21st century. Each student selects and independently investigates a topic of particular interest to them within one of these frameworks following faculty approval and guidance.

Special Note: Research conducted during summer between terms 2 and 3 in Foundations Phase of MD program.

Registration Restrictions: Admission to the WWAMI School of Medical Education and graduate standing

MD A698B Independent Investigative Inquiry - Poster 1 Credit
Engages students in preparation and presentation of professional quality research poster covering the independent investigative inquiry project conducted in MD A698A. Students will develop skills in dissemination of scholarly work through poster design, figure development, assembly and poster presentation at regional Medical Student III Poster Session.

Registration Restrictions: Admission to the WWAMI School of Medical Education and graduate standing

Prerequisites: MD A698A with a minimum grade of P or concurrent enrollment.