MEDICAL SCIENCE (MEDS)

MEDS 404 (s) Special Topics
Credit arranged.

MEDS 499 (s) Directed Study
Credit arranged.

MEDS 501 (s) Seminar
Credit arranged.

MEDS 502 (s) Directed Study
Credit arranged

MEDS 506 Introduction to Primary & Continuity Care Clerkship
4 credits
Introduces medical students to continuity of care by working with practicing physicians and coinciding with instruction in communication skills, interviewing techniques, physical examinations, documentation, and clinical reasoning. Includes hospital-based patient encounters with an introduction to and the development of the physician role. Topics covered in primary and preventative care, geriatrics, rehabilitation, palliative care, behavioral health, and pain management. Pass/Fail only.
Offered Fall
Prereq: Admission to the University of Washington School of Medicine WWAMI program.

MEDS 507 Introduction to Primary & Continuity Care Clerkship
4 credits
Introduces medical students to continuity of care by working with practicing physicians and coinciding with instruction in communication skills, interviewing techniques, physical examinations, documentation, and clinical reasoning. Includes hospital-based patient encounters with an introduction to and the development of the physician role. Topics covered in primary and preventative care, geriatrics, rehabilitation, palliative care, behavioral health, and pain management. Pass/Fail only.
Offered Fall
Prereq: Admission to the University of Washington School of Medicine WWAMI program.

MEDS 508 Introduction to Primary & Continuity Care Clerkship
4 credits
Introduces medical students to continuity of care by working with practicing physicians and coinciding with instruction in communication skills, interviewing techniques, physical examinations, documentation, and clinical reasoning. Includes hospital-based patient encounters with an introduction to and the development of the physician role. Topics covered in primary and preventative care, geriatrics, rehabilitation, palliative care, behavioral health, and pain management. Pass/Fail only.
Offered Spring
Prereq: Admission to the University of Washington School of Medicine WWAMI program.

MEDS 509 Introduction to Primary & Continuity Care Clerkship
4 credits
Introduces medical students to continuity of care by working with practicing physicians and coinciding with instruction in communication skills, interviewing techniques, physical examinations, documentation, and clinical reasoning. Includes hospital-based patient encounters with an introduction to and the development of the physician role. Topics covered in primary and preventative care, geriatrics, rehabilitation, palliative care, behavioral health, and pain management. Pass/Fail only.
Offered Fall
Prereq: Admission to the University of Washington School of Medicine WWAMI program.

MEDS 510 Molecular and Cellular Basis of Disease
11 credits
Introduces cell physiology and cell biology, function, genetics, and genetic diseases, genes. Topics include membrane physiology, sensory receptors; muscle energetics and contractibility, autonomic nervous system; tissue response to disease; pharmacodynamics and pharmacokinetics; genetic disorders; pharmacogenetics. Incorporates relevant fundamental principles in anatomy, pathology and pharmacology. Graded Pass/Fail. (Fall only)
Prereq: Admission to the University of Washington School of Medicine WWAMI program.

MEDS 515 Ecology of Health & Medicine-Foundations 1
1 credit
This course integrates School of Medicine thematic content with an emphasis on core concepts needed for clinical practice in the changing healthcare environment. Students will explore areas related to humanism in medicine including the themes of diversity, health equity, ethics, professionalism, and determinants of health. Pass/Fail only. Fall and Spring
Prereq: Admission to the University of Washington School of Medicine WWAMI program.

MEDS 517 Research Methods
6 credits
Community health and disease, including assessment of disease risk and mechanisms of epidemic detection, spread, and control; interpretation of research design, data analysis, bias source; and clinical epidemiology, including evaluation and application of diagnostic tests, natural history of disease, and quantitative aids for clinical decision making. Course offered Summer. 6cr. Must be a WWAMI Medical Education Professional Student. (This course is the equivalent of MedSci 500 offered in Seattle)
Prereq: WWAMI Student.

MEDS 519 Invaders and Defenders
10 credits
This course covers the immune system, microbial biology, infectious diseases, inflammation and repair, and skin and connective tissue. Topics discussed include the pathogenesis and immunity of infectious disease, immunodeficiencies, hypersensitivity, autoimmunity, the basis of immunologic diagnosis. Additionally, this course will include relevant fundamental scientific principles in anatomy, pathology, and pharmacology. Graded Pass/Fail. (Fall only)
Prereq: Admission to the University of Washington School of Medicine WWAMI program.
MEDS 525 Ecology of Health & Medicine - Foundations 2
1 credit
This course integrates School of Medicine thematic content with an emphasis on core concepts needed for clinical practice in the changing healthcare environment. Students will explore areas related to humanism in medicine including the themes of diversity, health equity, ethics, professionalism, and determinants of health. Pass/Fail only. Fall and Spring
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 529 Circulatory System
16 credits
This course provides an interdisciplinary approach to cardiovascular, respiratory, and renal-urinary medicine, including anatomy, physiology, pathology, medicine and surgery. Topics include cardiac electrophysiology and cardiac muscle mechanics, myocardial infarction and cardiac repair, thoracic and pulmonary anatomy, ventilator mechanics, gas exchange, obstructive, restrictive, and pulmonary-vascular diseases, renal function, and common kidney diseases. Graded Pass/Fail. (Spring only)
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 536 Ecology of Health & Medicine - Foundations 3
1 credit
This course integrates School of Medicine thematic content with an emphasis on core concepts needed for clinical practice in the changing healthcare environment. Students will explore areas related to humanism in medicine including the themes of diversity, health equity, ethics, professionalism, and determinants of health. Pass/Fail only. Fall and Spring
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 540 Blood, Cancer & Musculoskeletal
8 credits
This course familiarizes students with the basic pathophysiologic mechanisms leading to disturbances of red cell, white cell, and platelet production, as well as abnormalities of hemostasis presenting clinical problems. The musculoskeletal content will focus on clinical manifestations in the musculoskeletal system and pathophysicsology of trauma, aging, infection, and inflammation. Graded Pass/Fail. (Spring only)
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 545 Ecology of Health & Medicine - Foundations 4
1 credit
This course integrates School of Medicine thematic content with an emphasis on core concepts needed for clinical practice in the changing healthcare environment. Students will explore areas related to humanism in medicine including the themes of diversity, health equity, ethics, professionalism, and determinants of health. Pass/Fail only. Fall and Spring
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 550 Energetics and Homeostasis
10 credits
This course covers metabolism, nutrition, obesity, diabetes, gastrointestinal/liver physiology, and endocrinology. Topics include physiology and pathology of digestion and hepatic function, principles and practice of clinical nutrition, the endocrine integration of metabolism, and clinically important endocrine pathophysiology. Additionally, this course introduces anatomy, pathology, and pharmacology of the endocrine and GI Systems. Graded Pass/Fail. (Spring only)
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 560 Mind, Brain and Behavior
14 credits
In this course, the foundational principles of the organization and function of the head, neck and central nervous system are explained with a focus on clinical application of 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. Graded Pass/Fail. (Fall only)
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 570 Lifecycle and Reproduction
8 credits
This course will cover normal and abnormal human development, reproductive functions including formation and maturation of ova and sperm, menstruation, normal pregnancy, and labor and delivery. Provides information concerning infertility, family planning techniques, urinary disorders, reproductive aging and demography of human population. Additionally, this course includes fundamental scientific principles in pelvic anatomy, pathology, histology, imaging and pharmacology. Graded Pass/Fail. (Spring only)
**Prereq:** Admission to the University of Washington School of Medicine WWAMI program.

MEDS 580 Consolidation and Transition
12 credits
Reinforces content in the UWSOM foundations phase. Learning experiences will address key content areas which need further review identified throughout terms 1 and 2, with specific sessions developed as indicated; faculty/staff and peer educators will provide sessions for this basic science review as well as preparation for clerkships. Graded Pass/ Fail. (Spring Only)
**Prereq:** Must be admitted to U of Washington School of Medicine.

MEDS 597 Graduate Practicum
1-3 credits, max 3.