WWAMI – Medical Education

1. Drop the following courses:

**MedS 511 Anatomy and Embryology 1 (5 cr)**

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.

Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

**MedS 512 Mechanisms in Cellular Physiology (3 cr)**

Fundamental cell physiology mechanisms: ionic, electrical gradients, sensory receptors, autonomic nervous system, energy metabolism, epithelial transport; gastrointestinal motility and secretions. (Fall only)

Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

**MedS 514 Biochemistry I (3 cr)**

Focus on genome information, gene functions, genetic information stored, mobilized, and used, regulation, molecular medicine, genomic therapies. 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. (Fall only)

Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

**MedS 516 Systems of Human Behavior I (3 cr)**

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)

Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

**MedS 523 Introduction to Immunology (2 cr)**

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)

Recommended Equivalent Course: None
Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

MedS 524 Biochemistry II (2 cr)
Continuation of MedS 514. (Fall only)
Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

MedS 531 Anatomy and Embryology 2 (4 cr)
Gross anatomy; focus on head and neck anatomy, including skull, pharynx, and larynx; audition and balance. Continuation of MedS 511. (Spring only)
Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

MedS 532 Nervous System (5 cr)
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)
Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

MedS 534 Microbiology and Infectious Diseases (6 cr)
Biology of microbial pathogens and the mechanisms of pathogenesis; clinical manifestations, epidemiology and general principles of diagnosis, therapy and prevention of infectious disease. (Spring only)
Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

MedS 553 Anatomy & Embryology (Musculoskeletal) (3 cr)
Anatomy and clinical lectures, gross anatomy labs, living anatomy/clinical correlation, focus on musculoskeletal systems. (Spring only)
Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

MedS 590 Medical Information for Decision Making (1 cr)
Examines medical literature for the purpose of primary research, diagnosis, and therapeutic and preventative intervention. (Spring only)
Recommended Equivalent Course: None

Rationale: UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE CURRICULUM CHANGE FALL 2015. NO CURRENT STUDENTS WILL BE AFFECTED BY THE CHANGE. CURRICULUM IS SET BY THE UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE WITH PARTICIPATION FROM OUTLYING WWAMI SITES. COURSE NUMBERS MUST MATCH UWSON CURRICULUM.

2. Add the following courses:

MedS 519 Invaders and Defenders (10 cr)
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**

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. This new course will involve integrated content in immune system, microbial biology, infectious diseases, inflammation and repair, and skin and connective tissue. Introduction to anatomy, histology and pharmacology content will be incorporated into the course. Curriculum is set by the University of Washington.

**MedS 529 Circulatory System (16 cr)**
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**

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. Circulatory systems will present students with an integrated approach to the key supply chain and waste management systems of the body. Students will follow the movement of oxygen from the environment to the tissues, and movement of wasted products of metabolism along the opposite path, examining the coordinated roles of the lungs, heart and kidney in the control and regulation of these processes. Introduction to anatomy, histology and pharmacology content will be incorporated into the course. Curriculum is set by the University of Washington.

**MedS 540 Blood and Cancer (5 cr)**
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, with an emphasis on pathophysiology. Additionally, this course will include relevant fundamental scientific principles in anatomy, pathology and pharmacology. Graded Pass/Fail. (Spring only)

**Prereq: Admission to the University of Washington School of Medicine WWAMI program**

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. Circulatory systems will present students with an integrated approach to the key supply chain and waste management systems of the body. Students will follow the movement of oxygen from the environment to the tissues, and movement of wasted products of metabolism along the opposite path, examining the coordinated roles of the lungs, heart and kidney in the control and regulation of these processes. Introduction to anatomy, histology and pharmacology content will be incorporated into the course. Curriculum is set by the University of Washington.

**MedS 550 Energetics and Homeostasis (10 cr)**
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**

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. This new course will involve integrated content in metabolism, nutrition, obesity, diabetes, gastrointestinal/liver physiology, and endocrinology. Additionally this course includes relevant fundamental scientific principles in anatomy, pathology and pharmacology. Curriculum is set by the University of Washington.

**MedS 560 Mind, Brain and Behavior (14 cr)**
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**

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. In this new course, students will learn the fundamental scientific principles of the structure and function of the normal human nervous system in situ, define major neurologic, psychiatric and behavioral disorders, and develop a systematic approach to their differential diagnosis and management. Curriculum is set by the University of Washington.

**MedS 570 Lifecycle and Reproduction (8 cr)**
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, apthology, histology, imaging and pharmacology. Graded Pass/Fail. (Fall only)

**Prereq: Admission to the University of Washington School of Medicine WWAMI program**
Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. This new 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. Additionally, this course includes relevant fundamental scientific principles in pelvic anatomy, pathology, and pharmacology. Curriculum is set by the University of Washington.

3. Change the following courses:

**MedS 510 Microscopic Anatomy Molecular and Cellular Basis of Disease (4-11 cr)**
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.
Grade: Pass/Fail. Course includes clinical encounter opportunities.
Prereq: Admission to the University of Washington School of Medicine WWAMI program

Recommended Short Course Title: Molecular Cell

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. The goal of this course is to teach principles of cell and molecular biology, physiology, biochemistry and genetics. Aspects include the organization of the genome and units of heredity, properties of macromolecules, and cytoarchitecture. Students will gain an understanding of intracellular communication, cell-cell interactions, properties of differentiated cells, and the diversity of their physiological properties and functions. Introduction to anatomy, histology, and pharmacology content will be incorporated into the course. Curriculum is set by the University of Washington School of Medicine with participation from outlying WWAMI sites. Course numbers must match UWSOM curriculum.

**MedS 505 Preceptorship Introductory Primary and Community Care Clerkship (3-2 cr, max 26)**
Introduces medical students to continuity of care by working with participating physicians. The course demonstrates how to work with an individual to help them achieve optimal health, and includes topics in primary and preventative care, geriatrics, rehabilitation, palliative care, behavioral health and pain management. Grade: Pass/Fail. (Fall and Spring only) First-year medical students gain experience and insight into medical practice situations; students are stationed in physician offices at WWAMI sites.
Prereq: Admission to the University of Washington School of Medicine WWAMI program

Recommended Short Course Title: Intro Prim Care

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. This course continues to introduce students to continuity of care by working with practicing physicians. Curriculum is set by the University of Washington School of Medicine with participants from outlying WWAMI sites.

**MedS 513 Introduction to Clinical Medicine I Clinical Skills (2 cr)**
Instruction in communication skills, interviewing techniques, physical examinations, documentation and clinical reasoning. This course will include hospital-based patient encounters and developing comfort and introduction to the physician role. Grade: Pass/Fail only. Course includes instruction in communications skills and interview techniques to form the basis for the eventual doctor-patient relationship. (Fall and Spring only)
Prereq: Admission to the University of Washington School of Medicine WWAMI program

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. This course will continue to involve instruction and communication skills, interview techniques, physical examination skills and clinical reasoning. Curriculum is set by the University of Washington School of Medicine with participants from outlying WWAMI sites.

**MedS 522 Introduction to Clinical Medicine II Clinical Skills (2 cr)**
Instruction in communication skills, interviewing techniques, physical examinations, documentation and clinical reasoning. This course will include hospital-based patient encounters and developing comfort and introduction to the physician role. Grade: Pass/Fail. (Fall and Spring) Communication skills as related to patients and dealing with patient history and professionalism.
Prereq: Admission to the University of Washington School of Medicine WWAMI program

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. This course will continue to involve instruction and communication skills, interview techniques, physical examination skills and clinical reasoning. Curriculum is set by the University of Washington School of Medicine with participants from outlying WWAMI sites.

**MedS 535 Introduction to Clinical Medicine III Clinical Skills (2 cr)**
Instruction in communication skills, interviewing techniques, physical examinations, documentation and clinical reasoning. This course will include hospital-based patient encounters and developing comfort and introduction to the physician role. Grade: Pass/Fail. (Fall and Spring) Pass/Fail only. 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)

Prereq: Admission to the University of Washington School of Medicine WWAMI program

Rationale: The University of Washington is improving its curriculum to fit in with dominant national trends, which are moving towards more integrated curricula with active learning modalities. This course will continue to involve instruction and communication skills, interview techniques, physical examination skills and clinical reasoning. Curriculum is set by the University of Washington School of Medicine with participants from outlying WWAMI sites.