In cooperation with the University of Washington School of Dentistry (UWSOD), EWU offers these courses for first-year dental students.

**RIDE Courses**

**RIDE 559 Local Anesthesia** (1)
Prerequisite: admission to UWSOD.
This course is intended as an introduction to dental local anesthesia for RIDE students. Pharmacology, neurophysiology, techniques, emergency prevention and management, armamentarium safety and client management will be discussed. Safe administration and student-operator decision making are emphasized in both didactic and laboratory activities.

**RIDE 596 Experimental** (1–5)
Prerequisite: admission to UWSOD.

**RIDE N Courses**

**RIDE 509N Molecular and Cellular Basis of Disease—Foundations 1** (18)
Note: graded Pass/Fail.
Prerequisite: admission to UWSOD.
This course teaches the principles of cell and molecular biology, physiology, biochemistry and genetics. Aspects include the organization of the genome, 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.

**RIDE 510N Dental Anatomy and Occlusion** (3)
Note: graded Pass/Fail.
Prerequisite: admission to UWSOD.
This course includes lecture and laboratory content on the morphology and nomenclature of individual teeth of the adult dentition, introduction to tooth histology and function and the influence of tooth anatomy on clinical dental procedures.

**RIDE 511N Invaders and Defenders—Foundations 2** (18)
Note: graded Pass/Fail.
Prerequisite: admission to UWSOD.
This course covers and integrates the immune system, microbial biology, infectious diseases (including treatment), 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 diagnostics.

**RIDE 512N Introduction to Periodontics** (2)
Prerequisite: admission to UWSOD.
This course explores the clinical, histopathologic and radiographic features of periodontal diseases, principles of preventive periodontics and initial examination of the periodontium. Topics include normal structure, classification and epidemiology of periodontal diseases, etiologic factors, host response, and pathogenic lesions in periodontal disease.

**RIDE 513N Oral Microbiology** (2)
Prerequisite: admission to UWSOD.
This course applies basic sciences to an understanding of the molecular bases of the interactions between microorganisms and oral tissues that lead to plaque formation and dental diseases. Principles of clinical asepsis and diagnosis of caries and periodontal diseases are also covered.

**RIDE 514N Foundations of Dental Medicine** (2)
Prerequisite: admission to UWSOD.
In this course, students will become familiar with the elements of patient interviewing, including developing a problem-focused medical, social and dental history. They will also learn how to physically assess the dental patient. They will learn and apply principles of cultural competence and ethics throughout this process.

**RIDE 515N Embryology I** (3)
Prerequisite: admission to UWSOD.
Topics include: fabrication of master case models, articulator use and function, contacts in MIP and CO, temporomandibular joint function, mandibular excursive movements, mandibular envelopes of movement and how anatomical determinants influence occlusal function in all anatomical planes.

**RIDE 516N Cardiac, Pulmonary and Renal Diseases—Foundations 3** (8)
Note: graded Pass/Fail.
In this course students will become familiar with the structure, function and diseases of the cardiac, pulmonary and renal systems with special emphasis on the management of these diseases in the practice of dental medicine and surgery.

**RIDE 518N Oral Histology and Physiology** (1)
Prerequisite: admission to UWSOD.
Types include: tooth/pulp histology, development, eruption and exfoliation; innervation of teeth and oral structures; craniofacial and dental anomalies; craniofacial development; temporomandibular joint; masticatory muscle structure and function; oral mucosa and epithelial differentiation; periodontium and epithelial attachment; specialized mucosa: gustation; salivary gland structure and physiology.

**RIDE 521N Introduction to Dental Public Health** (2)
Note: graded Pass/Fail.
Students analyze a real-world public health case and develop feasible solutions. Each small group will present their solutions at the end of the course. Students submit weekly critical summaries of research articles and complete reading assignments. On the final examination students demonstrate basic dental public health knowledge.

**RIDE 522N Foundations of Dental Medicine 2** (2)
Note: graded Pass/Fail.
Students will increase expertise with patient interviewing and developing a problem-focused medical, social, and dental history. They will improve their skills in physical assessment, including diagnostic tests. They will learn how to develop a differential diagnosis. They will learn and apply principles of cultural competence and ethics throughout this process.

**RIDE 523N Oral Histology and Embryology I** (3)
Note: graded Pass/Fail.
Development of orofacial and neck structures; tooth/pulp histology, development, eruption and exfoliation; innervation of teeth and oral structures; craniofacial and dental anomalies; craniofacial development; temporomandibular joint; masticatory muscle structure and function; oral mucosa and epithelial differentiation; periodontium and epithelial attachment; specialized mucosa: gustation; salivary gland structure and physiology.

**RIDE 524N Oral Histology and Embryology II** (3)
Note: graded Pass/Fail.
Development of orofacial and neck structures; tooth/pulp histology, development, eruption and exfoliation; innervation of teeth and oral structures; craniofacial and dental anomalies; craniofacial development; temporomandibular joint; masticatory muscle structure and function; oral mucosa and epithelial differentiation; periodontium and epithelial attachment; specialized mucosa: gustation; salivary gland structure and physiology.

**RIDE 525N Oral Histology and Embryology III** (3)
Note: graded Pass/Fail.
Development of orofacial and neck structures; tooth/pulp histology, development, eruption and exfoliation; innervation of teeth and oral structures; craniofacial and dental anomalies; craniofacial development; temporomandibular joint; masticatory muscle structure and function; oral mucosa and epithelial differentiation; periodontium and epithelial attachment; specialized mucosa: gustation; salivary gland structure and physiology.

**RIDE 526N Oral Histology and Embryology IV** (3)
Note: graded Pass/Fail.
Development of orofacial and neck structures; tooth/pulp histology, development, eruption and exfoliation; innervation of teeth and oral structures; craniofacial and dental anomalies; craniofacial development; temporomandibular joint; masticatory muscle structure and function; oral mucosa and epithelial differentiation; periodontium and epithelial attachment; specialized mucosa: gustation; salivary gland structure and physiology.