

# EULJI (EUL)

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## **EUL 501: Applied Biomedical Science. (3.00 credit hours)**

This course integrates a review and clinical applications of Biochemistry, Genetics, Immunology, and Microbiology. Infections of the eye are discussed in relation to techniques for laboratory isolation, culturing, and identification of the infectious agents.

## **EUL 502: Ocular Pharmacology. (3.00 credit hours)**

This fundamental course in pharmacology introduces the student to basic concepts of drug effects on body organs and systems, including the eye. The pharmacological actions, mechanisms, clinical applications, and potential adverse effects of systemic drugs in current clinical use are considered in detail. This course presents the pharmacology of drugs used for the prevention, diagnosis, and treatment of ocular diseases, and discussions of other drugs that may affect the eye.

## **EUL 511: Advanced Visual Optics. (3.00 credit hours)**

This course is a continuation of the ophthalmic optics courses from the 4-year program offered at Eulji University. The goals of this course would be to provide advanced discussions in optics, lens options, and patient prescribing options in unusual and difficult situations.

## **EUL 521: Advanced Cornea & Contact Lens. (3.00 credit hours)**

Continuing applications of gas permeable (GP) contact lens and soft contact lens fitting and management are presented. Contact lens wear complications and management options are discussed and prescribing strategies and patient management are discussed. Advanced contact lens topics, including scleral contact lenses, pediatric contact lenses, myopia control, and prosthetics are presented.

## **EUL 551: Pediatrics. (2.00 credit hours)**

The diagnosis and management of common vision problems in young children requires an understanding of vision development, as well as the utilization of diagnostic procedures that are developmentally appropriate. This course provides diagnostic strategies for examining the infant, toddler, and preschooler. Application of pediatric tests for special needs children is presented, as well as the implication of ocular health on normal visual development. Management of common vision problems in the pediatric population is presented in a case discussion format.

## **EUL 571: Ocular Health Procedures I. (3.00 credit hours)**

This course presents basic procedures and techniques in ocular health assessment for the optometrist. The principles, performance, and interpretation of various health assessment procedures utilized in clinical practice are discussed. A systemic, problem-oriented approach to the diagnostic evaluation of the eye and neuro-visual system is emphasized. Standards of care and medico-legal issues in ocular health assessment are presented.

## **EUL 571A: Ocular Health Procedures I. (2.50 credit hours)**

This course presents basic procedures and techniques in ocular health assessment for the optometrist. The principles, performance, and interpretation of various health assessment procedures utilized in clinical practice are discussed. A systemic, problem-oriented approach to the diagnostic evaluation of the eye and neuro-visual system is emphasized. Standards of care and medico-legal issues in ocular health assessment are presented.

## **EUL 571L: Ocular Health Procedures I Lab. (0.50 credit hours)**

The laboratory provides experience in the use of the procedures taught in Ocular Health Procedures I, as well as the clinical utilization of pharmaceutical agents commonly used in primary care optometric practice. The laboratory requires that students actively participate as doctors and patients while learning these procedures. The laboratory presents examination procedures and techniques used in basic ocular health assessment for the optometrist practicing in the United States.

## **EUL 631: Vision / Learning. (2.00 credit hours)**

The course will give the student a systematic approach for the diagnosis and management of developmental visual information processing (DVIP) disorders. The role of the optometrist as part of a multidisciplinary team in evaluating children with learning disabilities will be emphasized. The course will provide a review of child development principles of standardized testing, learning disabilities, and dyslexia.

## **EUL 632: Non Strab VT; Strab / amb VT. (3.00 credit hours)**

This course will cover the diagnosis and management of non-strabismic binocular vision conditions including anomalies of the vergence, accommodation, and ocular motor systems. A range of treatment options will be discussed, including lenses, prisms, and vision therapy. Active vision therapy utilizing a sequential approach will be emphasized.

## **EUL 641: Case Discussions / Presentations. (3.00 credit hours)**

The purpose of this course is to effectively integrate the information presented in the prior clinically based courses. Utilizing an interactive, small group case discussion format, students will be able to enhance their abilities in proper differential diagnosis testing protocol, treatment and management, and patient education of conditions the practicing optometrist will encounter.

## **EUL 641A: Case Discussions / Presentations. (1.50 credit hours)**

The purpose of this course is to effectively integrate the information presented in the prior clinically based courses. Utilizing an interactive, small group case discussion format, students will be able to enhance their abilities in proper differential diagnosis testing protocol, treatment and management, and patient education of conditions the practicing optometrist will encounter.

## **EUL 661: Low Vision / Geriatric Optometry. (3.00 credit hours)**

The course introduces the principles of vision rehabilitation with respect to the geriatric and visually impaired populations. The topics presented include the clinical characteristics of aging, etiology, and visual impairment, demographics, and psychosocial factors of geriatric and visually impaired patients, the case history and clinical examination of these patients, and optics of treatment options for the visually impaired. Also discussed are the performance characteristics of optical and non-optical treatment options for the visually impaired; assessment, treatment, and management of geriatric and visually impaired patients; development of a vision rehabilitation plan; the multidisciplinary team approach to rehabilitation; and patient communication and education.

## **EUL 661A: Low Vision /Geriatric Optometry Lab. (0.75 credit hours)**

The laboratory presents examination procedures and techniques utilized for geriatric and visually impaired patients in traditional and non-traditional settings; motility procedures; geriatric case management; and an introduction to rehabilitation optics and optical systems for visual impairment. The performance characteristics and clinical application of optical and non-optical treatment options for visual impairment are presented.

**EUL 672: Topics in Ocular Disease. (3.00 credit hours)**

This course presents a comprehensive discussion of anterior segment diseases and disorders, posterior segment diseases and disorders, and systemic disorders affecting the eye. Pathophysiology of ocular tissues is related to the disease processes to provide a strong understanding of the ocular disease presentation and patient symptomatology. Clinical and laboratory evaluation is discussed along with the diagnosis, treatment, and management of ocular diseases. Current management strategies will emphasize the utilization of appropriate therapeutic agents and modalities for proper follow-up care. Selected readings help to emphasize current thoughts on treatment and management. Emphasis is placed on clinical presentation and appropriate use of diagnostic modalities, including new technologies. Therapeutic strategies emphasize medical and surgical management, co-management, and follow-up care.

**EUL 741: Advanced Topics Workshop. (0.25 credit hours)**

The course provides in-person seminars and discussions of advanced topics to supplement the curriculum. Students will have the opportunity to hear from topic experts and to interact with other health care professionals.

**EUL 741A: Case Analysis. (1.50 credit hours)**

The course provides in-person seminars and discussions of advanced topics to supplement the curriculum. Utilizing an interactive, small group case discussion format, students will be able to enhance their abilities in proper differential diagnosis testing protocol, treatment and management, and patient education of conditions the practicing optometrist will encounter.

**EUL 742: Capstone: Clinical Externships US. (4.50 credit hours)**

As a capstone, practical application of the clinical skills taught in prior courses in preparation for clinical practice. Students will conduct eye examinations under the direct supervision of expert clinical faculty. Opportunities for the clinical education experiences will be at selected clinical settings in the United States. There will be exposure to primary care, ocular disease, contact lenses, vision therapy and pediatrics, low vision, optical, specialty clinics, ophthalmology, and grand rounds.

**EUL 742A: Capstone: Simulated Clinical Extern. (4.50 credit hours)**

As a capstone, practical application of the clinical skills taught in prior courses in preparation for clinical practice. Students will conduct eye examinations under the direct supervision of expert clinical faculty. Opportunities for the clinical education experiences will be at selected clinical settings in the United States. There will be exposure to primary care, ocular disease, contact lenses, vision therapy and pediatrics, low vision, optical, specialty clinics, ophthalmology, and grand rounds.

**EUL 772: Ocular Health Procedures II. (0.50 credit hours)**

This course presents additional basic procedures and techniques in ocular health assessment for the optometrist. The principles, performance, and interpretation of various health assessment procedures utilized in clinical practice are discussed. A systemic, problem-oriented approach to the diagnostic evaluation of the eye and neuro-visual system is emphasized. Standards of care and medico-legal issues in ocular health assessment are presented.

**EUL 772A: Ocular Health Procedures II (A). (0.50 credit hours)**

The laboratory provides experience in the use of the procedures taught in Ocular Health Procedures I and II lectures, as well as the clinical utilization of pharmaceutical agents commonly used in primary care optometric practice. The laboratory requires that students actively participate as doctors and patients while learning these procedures. Students will need to enter the U.S. under an F-1 visa during the final semester of the program. Expenses incurred in the application process are the responsibility of the student and students should allow sufficient time for processing. As a condition for issuing the visa students are required to provide proof of adequate funds to cover all fees and expenses for the final semester. All travel and housing arrangements are the responsibility of the student. Degree conferral will be in December following successful completion of all requirements, but students may participate in the Commencement ceremonies in May of the following year.