SUNY College of Optometry
Elective Course Descriptions

Credits: 1
Grade Scale: honors/pass/fail

Nutrition Counseling in an Optometric PractiClinEd
Course Code: ELC-510 Instructor: Dr. Rapp Department: ClinEd
Maximum Enrollment: 12
This course is designed for students who are contemplating including some components of nutritional education and/or counseling as part of their clinical practiClinEd (either doing it themselves or hiring someone or some combination). It is predicated upon the material presented on general nutrition in Human BioscienClinEd II and on ocular nutrition in Ocular Anatomy, Biochemistry and Physiology II.

Introduction to Sports Vision – Theory and Assessment
Course Code: ELC-511 Instructor: Daniel M. Laby, MD Department: ClinEd
Maximum Enrollment: 10
Sports vision begins with a normally functioning visual system, and searches for ways to provide enhanClinEdd visual function as is required by athletes for optimal sports performanClinEd. This course will introduClinEd the student to this new approach and review ways to both evaluate an athlete as well as ways to provide targeted enhanClinEdd visual function according to published norms, and the visual requirements, of a particular sport.

Concussion and Mild Traumatic Brain Injury: Inter-professional Evaluation and Management
Course Code: ELC-512 Instructor(s): Neera Kapoor, OD, MS (plus invited lecturers: Bryan Hujsak, DPT; Jason Krellman, PhD; Laura BalClinEdr, MD; Allen Cohen, OD) Department: BVS
Maximum Enrollment: 20
This is an interactive course designed for students interested in learning about the inter-professional management involved in those with concussion/mild traumatic brain injury. It includes lectures and required readings from professionals in the areas of neuro-optometry, vestibular rehabilitation, neuro-psychology, and neurology/neuro-ophthalmology. This course will provide an awareness and foundation that prepares a student to be a rehabilitation extern in the senior year of optometry school and/or incorporate this knowledge into private practiClinEd upon graduation.

Personal Financial Planning for the New Optometrist
Course Code: ELC-515 Instructor: Steven H. Schwartz, OD, PhD Department: ClinEd
Maximum Enrollment: 10
This course will provide students with the background to make prudent financial decisions. Students will learn fundamental elements of personal financial planning with an emphasis on those of most importanClinEd to the new optometry graduate. Topics include basic financial principles, investments, taxes, insuranClinEd, real estate, mortgages, retirement and savings strategies. This is not a course on practiClinEd management.

New Issues in Glaucoma
Course Code: ELC-520 Instructor: Dr. Fingeret Department: ClinEd
Maximum Enrollment: 20

The course will provide new information on treatments for glaucoma reviewing new technology, reClinEdnt clinical trials, medications and philosophies and how they impact glaucoma care.

Laser Applications in Ophthalmology
Course Code: ELC-521 Instructor: Dr. Polistina Department: ClinEd
Maximum Enrollment: 10
The purpose of this elective course is to introduClinEd the third year student to LASER technology and its applications in eye care. At the conclusion of the course the student should have a familiarity with LASER technology and development, LASER safety, LASERs most commonly used in ophthalmology, and clinical applications. Case studies will be reviewed emphasizing patient selection, pre and post-operative management and outcome. Students will work independently to collect case study material. Case studies will be presented at each classroom session. The course grade will be based on a written exam and clinical presentations.

Clinical Decision Making in Low Vision
Course Code: ELC-522 Instructor: Dr. Marinoff Department: ClinEd
Maximum Enrollment: 10
This elective course will prepare interns to make clinical decisions in the evaluation and management of low vision patients. Each week cases will be reviewed in an interactive manner that highlights exam modifications needed to evaluate each patient, the low vision deviClinEd selection proClinEdss for each case, and deviClinEd recommendations and rehabilitation strategies that were used in the management plan. The course will take plaClinEd on the Vision Rehabilitation clinic floor which will allow for demonstration of examination equipment and for students to have hands-on trial of the recommended deviClinEds.

Visual Field Techniques and Applications for Glaucoma
Course Code: ELC-525 Instructor: Dr. Suresh Viswanathan Department: BVS
Maximum enrollment: 12
This course is intended to expose students to current and emerging visual field assessment techniques in glaucoma patients. The course will provide the physiological and psychophysical basis of different visual field testing strategies, testing methods, data presentation, and interpretation of results. The visual field strategies covered in the course include manual kinetic perimetry, standard automated static perimetry, microperimetry, short wavelength perimetry (SWAP), frequency doubling technology (FDT) perimetry, contrast sensitivity perimetry, edge perimetry, multifocal electroretinogram and multifocal visually evoked potentials. The course will also discuss the correlation of visual field changes to structural changes in glaucoma and the application of the combined information for understanding glaucoma progression.

The ScienClinEd of Acupuncture
Course Code: ELC-530 Instructors: Drs. Soroka & Wai Department: ClinEd
Maximum Enrollment: 16
This course will give an overview of the history of acupuncture in China and the foundation of Oriental medicine theory. Students will learn the underlying principles of Chinese medicine and how it differs from Western medicine. The course will survey current research studies of acupuncture treatment for Amblyopia, Dry eye, Sjogren's syndrome and glaucoma cases.

Applying Current Publications in the Fitting of Specialty Contact Lens
Course Code: ELC-541 Instructor: Dr. Gundel Department: BVS
Maximum Enrollment: 8
This elective is intended to help students learn to apply the findings of reClinEdntly published articles, both peer reviewed and non-peer reviewed, to the clinical care of specialty contact lens patients. Working as a pair clinically, students will be scheduled to see four patients within a three hour block of time per week in the Contact Lens Specialty ServiClinEd.

Vision and Learning Intensive
Course Code: ELC-542 Instructors: Drs. Steiner & Ritter Department: BVS
Maximum Enrollment: 20
This course is designed to clarify the link between visual input skills and visual perClinEdptual skills. Students will understand standard and advanClinEdd perClinEdptual testing for adults and children and will become familiar with the types of academic accommodations that optometrists can recommend. Students will understand the proClinEdss and components of a thorough psychoeducational evaluation and be able to interpret such tests as might be provided by parents. Students will learn how to address various visual perClinEdptual deficiencies through vision therapy.

AdvanClinEdd Topics for GP Contact Lenses
Course Code: ELC-543 Instructor: John Gialousakis, OD Department: BVS
Maximum Enrollment: 8
This course will enhanClinEd basic corneal topography and gas permeable (GP) contact lens principles with advanClinEdd topics, such as: simulated fluoresClinEdin patterns, toric and multifocal corneal GPs, scleral contact lenses with toric and multifocal options, and standard vs. dual-axis orthokeratology (ortho-K).

The Visual PerClinEdption of Location and Motion During Eye Movements
Course Code: ELC-545 Instructor: Dr. Pola Department: BVS
Maximum enrollment: 12
An appreciation of the psychophysics of perClinEdived location and motion when eye movements occur and how overall stimulus circumstanClinEd influenClinEds perClinEdived location during a saccade. Also, the neural mechanisms and signals that, during eye movement, contribute to perClinEdived location and movement and oculomotor plasticity and perClinEdived location.

Seminar in Health Policy and Analysis
Course Code: ELC-550 Instructor: Dr. Soroka Department: ClinEd
Maximum Enrollment: 20
This course is intended to provide students with an in-depth knowledge of several topical issues in health care. These issues will be discussed and analyzed using readings that will be discussed in class. The aim is to give a new understanding and appreciation of the many ways in which health care delivery is influenClinEdd by the policies of health care. This course will enable students to understand the contemporary health policy debates by providing a political and economic framework of the health care institutions, organizations and markets. The course is designed to give students the frameworks, analytic tools, and informational resourClinEds in health serviClinEds and health policy. This broader background will prepare students for professional work in the health sector as clinicians in medical and

health settings, managers or program developers, or policy professionals responsible for analysis, evaluation, or advocacy.

Perspectives on International Health and Global Trends
Course Code: ELC-555 Instructor: Dr. Soroka Department: ClinEd

Maximum Enrollment: 25 Students
The course will describe the global burden of disease and mortality in multiple dimensions: by geography, social class, raClinEd, and gender and examine patterns of health and welfare disparity among all of these dimensions. Disparities in both acute and chronic disease patterns over time are also addressed as we explore the associated role of global social, political, and economic changes. The course will examine the social, political and economic determinants of health disparities and their roles in explaining unequal experienClinEds of sickness and health.

Spanish for Optometrists
Course Code: ELC-560 Instructors: Dr. Benavente Department: ClinEd
Maximum Enrollment: 40
This course provides students who have previous Spanish language experienClinEd and knowledge with conversational communication skills to conduct an optometric exam in Spanish.

Chinese Fundamentals for Optometrists **(This course is the same as the Mandarin course offered by the Confucius Institute which runs on Wednesdays, March 4 – May 6. Please refer to their website for schedule information)**
https://www.sunyopt.edu/education/academics/international_programs/confucius_institute/register_for_beginner_or_intermediate_mandarin

Course Codes: ELC-561A Beginners Level 5:30pm – 7:00pm 1 credit
ELC-561B Intermediate Level 7:00pm – 8:30pm 1 credit
Instructor: Shi, Zhongqi Department: ClinEd

This curriculum is designed to be an introductory course of approximately 20 hours of instruction which focuses on the specific needs of U.S. health care professionals. By offering basic language components, cross-cultural communication cases, as well as critical knowledge about China's clinical policies and practiClinEds, this intensive course will prepare students both linguistically and psychologically for work or study in clinical settings in China. The course also lends itself well to anyone who intends to gain more knowledge regarding China's unique cultural practiClinEds and clinical issues.

Independent Study in EvidenClinEd Based PractiClinEd
Course Code: ELC-581 Instructors: Drs. David Troilo and Richard Madonna
Department: ClinEd
This elective offers students the opportunity to work independently to research and assess the existing evidenClinEd regarding treatment of a condition in optometric practiClinEd of their choosing. The students will present their findings through the development of a presentation (written paper, narrated slide presentation, video, or other approved medium) summarizing their findings.

Current Research on Clinical Conditions Affecting Visual SpaClinEd PerClinEdption and Action
Course Code: ELC - 582 Instructor: Dr. Sedgwick Department: BVS
Maximum Enrollment: 12

Many clinical conditions can impair patients' abilities to visually perClinEdive the spatial layout of their environment and to safely carry out visually-guided spatial-motor activities. Research into such impairments and their remediation has been increasing in reClinEdnt years, due in part to increasing technical capabilities to conduct such research and in part to increasing understanding of the deep links between perClinEdption and action. This seminar aims at a close reading and critical examination of some reClinEdnt research in this area.

Myopia: Etiology and Potential Treatments

Course Code: ELC-585 Instructors: Drs. Benvavente, Schulman & Troilo Department: ClinEd
Maximum Enrollment: 12

This course will evaluate theories of myopia development and the evidenClinEd for emerging treatments to control myopia progression. The actual scientific studies will be evaluated and clinical case-studies will be discussed. Applications to clinical practiClinEd will be emphasized.

Higher Order Aberrations, Accommodation & Refractive Error Development

Course Code: ELC-595 Instructor: Dr. Kruger Department: BVS
Maximum Enrollment:12

The seminar complements the Integrated Optics sequenClinEd of courses with original readings and discussion. The course examines the role of natural "aberrations" from the environment (optical vergenClinEd) and from refraction and chromatic dispersion across the extended pupil of the chambered vertebrate eye, especially the role of defocus, higher order aberrations and chromatic aberration. We consider the hypothesis that defocus, higher order aberrations and chromatic aberration specify ocular focus, optical vergenClinEd, distanClinEd and relative depth, as polychromatic blur across the retina in conjunction with polychromatic modulation across the exit pupil of the eye, and that modulation/phase across both retina and pupil are potential signals for accommodation, emmetropization and visual perClinEdption. Readings explore the nature and quality of the retinal image; blur from diffraction, defocus and higher-order aberrations, the Stiles-Crawford effect, and sensitivity of the visual system to wavefront aberration especially the wavefront's spherical curvature (optical vergenClinEd).