

**SUNY College of Optometry**  
**Spring 2017 Elective Courses**  
**Fridays, 1pm-3:30pm (March 24 - May 12, 2017)**

**Credits: 1**

**Grade Scale: honors/pass/fail**

**Ocular Genetics**

Course Code: ELC-546

Instructor: Dr. Jerry Rapp

Department: BVS

Maximum enrollment: 12

This course is designed to illustrate the genotype-phenotype relationship in hereditary retinal degenerative disease focusing on rhodopsin (R) mutations that cause autosomal dominant retinitis pigmentosa, contrasting these R mutations with those that cause congenital stationary night blindness, and also considering mutations that cause other diseases including Stargardt disease and Leber's congenital amaurosis.

**The Visual Perception of Location and Motion During Eye Movements**

Course Code: ELC-545

Instructor: Dr. Jordan Pola

Department: BVS

Maximum enrollment: 12

An appreciation of the psychophysics of perceived location and motion when eye movements occur and how overall stimulus circumstance influences perceived location during a saccade. Also, the neural mechanisms and signals that, during eye movement, contribute to perceived location and movement and oculomotor plasticity and perceived location.

**Spanish for Optometrists**

Course Code: ELC-560

Instructors: Dr. Alexandra Benavente

Department: ClinEd

Maximum Enrollment: 40

This elective course is designed to help the student with no previous Spanish background and/or limited Spanish knowledge develop the basic skills required to conduct an optometric exam in Spanish. An elective for students with intermediate or advance Spanish background knowledge will be offered in summer. We will work on general and specific eye vocabulary, basic grammar, and cultural contexts of Hispanic/Latino culture that will be adapted to the level of the group.

**Independent Study in Evidence Based Practice**

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 evidence regarding treatment of a condition in optometric practice 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.

**Myopia: Etiology and Potential Treatments**

Course Code: ELC-585

Instructors: Drs. Benavente, Schulman & Troilo

Department: ClinEd

Maximum Enrollment: 12

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

### **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 for 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.

### **Personal Financial Planning for the New Optometrist**

Course Code: ELC-515      Instructor: Dr. Steven H. Schwartz

Department: ClinEd

Maximum Enrollment: 10

This course will provide you with the background to make prudent financial decisions. You will learn fundamental elements of personal financial planning with an emphasis on those of most importance to the new optometry graduate. Topics include basic financial principles, investments, taxes, insurance, real estate, mortgages, retirement and savings strategies. This is not a course on practice management.

### **New Issues in Glaucoma**

Course Code: ELC-520      Instructor: Dr. Murray Fingeret

Department: ClinEd

Maximum enrollment: 20

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

### **Laser Applications in Ophthalmology**

Course Code: ELC-521      Instructor: Dr. Dean Polistina

Department: ClinEd

Maximum enrollment: 10

The purpose of this elective course is to introduce 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.

### **Advanced Topics for GP Contact Lenses**

Course Code: ELC-543      Instructor: Dr. John Gialousakis

Department: BVS

Maximum Enrollment: 8

This course will enhance basic corneal topography and gas permeable (GP) contact lens principles with advanced topics, such as: simulated fluorescein patterns, toric and multifocal corneal GPs, scleral contact lenses with toric and multifocal options, and standard vs. dual-axis orthokeratology (ortho-K).

### **Introduction to Sports Vision – Theory and Assessment**

Course Code: ELC-511      Instructor: Dr. Daniel M. Laby

Department: ClinEd

Maximum Enrollment: 10

Sports vision begins with a normally functioning visual system, and searches for ways to provide enhanced visual function as is required by athletes for optimal sports performance. This course will introduce the student to this new approach and review ways to both evaluate an athlete as well as ways to provide targeted enhanced visual function according to published norms, and the visual requirements, of a particular sport.

### **Clinical Decision Making in Low Vision**

Course Code: ELC-522      Instructor: Dr. Rebecca 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 device selection process for each case, and device recommendations and rehabilitation strategies that were used in the management plan. The course will take place 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 devices

### **Advanced Topics: Pediatric Eye Disease**

Course Code: ELC-544      Instructors: Drs. Mallios and Vaughn

Department: BVS

Maximum Enrollment: 8

This course will review the most common ocular conditions affecting the anterior and posterior segments of the eye in the pediatric population. In addition, common developmental syndromes will be reviewed. The etiology, epidemiology, diagnosis, and management are presented for each condition. Additionally, include how these diseases impact various aspects of the child's quality of life including specific medications, educational services, and the interdisciplinary care involved. Students will be required to shadow one clinic (Children with Special Needs or Pediatric Ocular Disease), from which they will extract a case to develop a presentation to the class.

### **Change Leadership**

Course Code: ELC-509      Instructor: Dr. Guilherme Albieri

Department: ClinEd

Maximum Enrollment: 12

This course provides participants with perspectives and competencies that will enable them to meet those leadership challenges in the global community. Competencies for the change leader explored through this course include problem solving, strategic thinking, creative thinking, communication, and execution. Participants will learn through discussions, assigned readings, and by completing one project – a report on a leader in optometry, a personal change project or a service-learning project.