Optometry

Optometrists provide primary vision care, including comprehensive eye examinations and the diagnosis, treatment, and management of most eye conditions and diseases. To prepare you as a professional capable of meeting this broad scope of responsibilities, the curriculum at Berkeley Optometry is designed to provide first-rate clinical training as well as instruction in the science of vision.

Our world-class faculty (http://optometry.berkeley.edu/faculty/introduction/) offer comprehensive clinical training enhanced by cutting-edge education in vision science. They will prepare you to meet the challenges of expanding primary eye care. You will acquire knowledge of cell and molecular biology, pharmacology, genetics, epidemiology of eye disorders, and state-of-the-art clinical technology. You will also have training in all clinical areas, including primary care and specialties such as binocular disorders, contact lenses, low vision, ocular disease, geriatrics, pediatrics, and refractive surgery.

The Clinics

Berkeley Optometry operates its teaching clinics on a twelve-month basis. Our students have progressively more clinical training and responsibility as they advance through the four-year degree program. Third-year students spend about half their time in clinic, while fourth-year students spend virtually all their time in clinic.

One key element in the Berkeley Optometry program is the provision of in-depth clinical experience in a variety of settings. Our intensive-training clinics (https://optometry.berkeley.edu/academics/clinical-training/) (On-Campus Clinics, Off-Campus Externship Clinics, and Community Outreach Clinics) offer services to populations associated with our Berkeley Optometry clinics or affiliated clinics around the country and the world.

The Meredith Morgan Eye Center provides comprehensive eye care to members of the Berkeley campus and the local community. There are more than 80,000 patient visits each year for which our faculty and students provide a full range of services from primary eye care to the diagnosis and management of vision problems caused by diseases such as glaucoma, cataracts, and diabetes. All students also participate in external clinical rotations. At the end of the four-year OD Program, each student will have, on average, examined 2,500 patients.

The Curriculum

Berkeley Optometry makes a major contribution to the field of health care by training skilled practitioners through a curriculum that is continuously updated to reflect the latest in research and clinical training. We are dedicated to keeping pace with the expanding field of optometry and the profession's move toward a more extensive health science model of primary care.

As you look through the course descriptions in our curriculum (https://optometry.berkeley.edu/academics/curriculum/), you will see the depth and range of study and training offered by our Optometry program. One exciting and effective approach is introducing our students to clinical education from the first day.

For example, OPTOM 200A (Clinical Examination of the Visual System; fall semester) is taught in the first semester of the program, when you will learn how to take case histories, perform preliminary examinations of the eye, and measure refractive error. By the spring of your first year, OPTOM 200B (Clinical Examination of the Visual System; spring semester) will introduce you to advanced examination techniques. These clinical procedures will be complemented by course work in biology, optics, and pharmacology. We have found that this early introduction to the clinical examination, combined with basic science courses, makes the learning of optometry interesting and relevant. Please look at our curriculum and see for yourself how we integrate clinical and basic science from the beginning.

Admission to the Doctor of Optometry (OD) Program

Note: Applicants for optometric study in the United States and Puerto Rico use a common application service, OptomCAS. By utilizing a common application service, prospective students file one application that can be sent to multiple schools and colleges of optometry. The Admissions and Student Affairs Office is thrilled to be a participant OptomCAS school as we strive to make the application process more efficient and convenient for you.

More information can be found here: www.optomcas.org (http://www.optomcas.org/)

To be considered for admission to the School of Optometry in full-time regular status, you must meet the *Application Requirements*. More detailed information can be found on our website (https://optometry.berkeley.edu/admissions/).

Curriculum by Year (OD Program)

First-Year Curriculum (39.5 units)

Fall		
	OPTOM 200A	Clinical Examination of the Visual System [2]
	OPTOM 200AL	Clinical Examination of the Visual System [3]
	OPTOM 272A	Health Economics, Law and Policy for Optometrists [2]
	VIS SCI 203A	Course Not Available [4]
	VIS SCI 205	Course Not Available [4.5]
	VIS SCI 206A	Course Not Available [2]
	VIS SCI 206D	Course Not Available [2]
Spring		
	OPTOM 200B	Clinical Examination of the Visual System [2]
	OPTOM 200BL	Clinical Examination of the Visual System [3]
	OPTOM 222A	Optics of Ophthalmic Lenses [4]
	VIS SCI 203B	Course Not Available [4]
	VIS SCI 206B	Course Not Available [3]
	VIS SCI 217	Course Not Available [2]
	VIS SCI 219	Course Not Available [2]

Second-Year Curriculum (32 units)

Fall		
	OPTOM 200C	Clinical Examination of the Visual System [2]
	OPTOM 200CL	Clinical Examination of the Visual System [2]
	OPTOM 213	Evidence Based Optometry [1]
	OPTOM 222B	Advanced Clinical Optics [2]
	OPTOM 226A	Systemic Pharmacology [2.5]
	OPTOM 236A	Systemic Disease and its Ocular Manifestations [3]
	VIS SCI 215	Visual System Development [2]

Spring	
OPTOM 200D	Clinical Examination of the Visual System [2]
OPTOM 200DL	Clinical Examination of the Visual System [2]
OPTOM 226B	Ocular Pharmacology [2.5]
OPTOM 236B	Systemic Disease and its Ocular Manifestations [3]
OPTOM 240	Diagnosis and Treatment of Sensory/Motor Anomalies [3]
OPTOM 260A	Contact Lenses: Examination Principles and Practice [3]
VIS SCI 206C	Anatomy and Physiology of the Eye and Visual System [2]

Third-Year Curriculum (45.5 units)

Summer	
OPTOM 430A	Optometry Clinics [8]
OPTOM 432	Introduction to Clinical Topics for the New Clinician [2]
Fall	
OPTOM 241	Advanced Management and Rehabilitation of Sensory/Motor Anomalies [3]
OPTOM 246	Diagnosis and Treatment of Anterior Segment Ocular Disease [4]
OPTOM 251	Low Vision [2.5]
OPTOM 430B	Optometry Clinics [9]
OPTOM 435	Advanced Procedures in Ocular Disease Diagnosis [2]
Spring	
OPTOM 256	Diagnosis and Treatment of Posterior Segment Ocular Disease [4]
OPTOM 270C	Eyecare Business and Professional Management II [2]
OPTOM 430C	Optometry Clinics [9]

Fourth-Year Curriculum (42 units)

Summer	
OPTOM 440A	Advanced Optometry Clinic [5]
OPTOM 441A	Specialty Clinics [5]
Fall	
OPTOM 440B	Advanced Optometry Clinic [9]
OPTOM 441B	Specialty Clinics [7]
Spring	
OPTOM 440C	Advanced Optometry Clinic [9]
OPTOM 441C	Specialty Clinics [7]

- Optometry (p. 2)
- Vision Science (p. 21)

Optometry

Expand all course descriptions [+]Collapse all course descriptions [-]

OPTOM 200A Clinical Examination of the Visual System 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013

First in a 5-semester series designed to cover the theory and technical skills necessary to conduct a routine clinical exam of the eye and visual system. Topics include case history, entrance testing, refraction, phoropter testing, biomicroscopy techniques, direct ophthalmoscopy, binocular indirect ophthalmoscopy, and the signs and symptoms related to different refractive errors. The course emphasizes case analysis and interpretation of exam findings that leads to an appropriate diagnosis and treatment.

Clinical Examination of the Visual System: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: 100A

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200AL Clinical Examination of the Visual System 3 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017

Fundamentals of the optometric examination. Case history, visual acuities, objective and subjective methods of determining refractive status. Basic examination of anterior ocular structures and the ocular funds; perimetry.

Clinical Examination of the Visual System: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 6 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200B Clinical Examination of the Visual System 2 Units

Terms offered: Spring 2016, Spring 2015, Spring 2014
Students will learn the diagnostic elements of the optometric examination, including increased proficiency in case history, entrance testing, refraction, phoropter testing, ocular health testing, case presentation, patient consultation, presbyopia testing, advanced biomicroscopy techniques, and the signs and symptoms related to different refractive errors. Classification and epidemiology of refractive errors, evaluation of accommodative and binocular status.
Clinical Examination of the Visual System: Read More [+]
Rules & Requirements

Prerequisites: 200A

Credit Restrictions: Students will receive no credit for OPTOM 200B after completing OPTOM 100B.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: 100B

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200BL Clinical Examination of the Visual System 3 Units

Terms offered: Spring 2021, Spring 2020, Spring 2017
Theory and techniques of the various procedures that are part of a routine optometric examination of the visual system. In this course, students will be taught more diagnostic elements of the optometric examination, including increased proficiency in case history, entrance testing, refraction, phoropter testing, ocular health testing, case presentation, patient consultation, presbyopia testing, advanced biomicroscopy techniques, and the signs and symptoms related to different refractive errors.
Clinical Examination of the Visual System: Read More [+]
Rules & Requirements

Prerequisites: Opt 200A, Opt 200AL

Repeat rules: Course may be repeated for credit with advisor consent.

Hours & Format

Fall and/or spring: 15 weeks - 6 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200C Clinical Examination of the Visual System 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Case analysis of refractive, accommodative, and binocular anomalies. Pediatric examination techniques. Advanced methods of examining the peripheral ocular fundus; anterior chamber angle evaluation.
Clinical Examination of the Visual System: Read More [+]
Rules & Requirements

Prerequisites: 200B

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 100C

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200CL Clinical Examination of the Visual System 2 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017
Case analysis of refractive, accommodative, and binocular anomalies. Pediatric examination techniques. Advanced methods of examining the peripheral ocular funds; anterior angle evaluation.
Clinical Examination of the Visual System: Read More [+]
Rules & Requirements

Prerequisites: Optom 200B

Repeat rules: Course may be repeated for credit with advisor consent.

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200D Clinical Examination of the Visual System 2 Units

Terms offered: Spring 2017, Spring 2016, Spring 2015
Modification of the exam sequence for specific patient needs. Evaluation and management of tear film disorders; analysis of vision with cataract. Patient management and professional communications; legal and ethical issues; managed care and optometry.
Clinical Examination of the Visual System: Read More [+]
Rules & Requirements

Prerequisites: 200C, 200CL

Repeat rules: Course may be repeated for credit with advisor consent.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200DL Clinical Examination of the Visual System 2 Units

Terms offered: Spring 2021, Spring 2020, Spring 2017
Modification of the exam sequence for specific patient needs. Evaluation and management of tear film disorders; analysis of vision with cataract. Patient management and professional communications; legal and ethical issues; managed care and optometry.
Clinical Examination of the Visual System: Read More [+]
Rules & Requirements

Prerequisites: Optom 200C, Optom 200CL

Repeat rules: Course may be repeated for credit with advisor consent.

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Clinical Examination of the Visual System: Read Less [-]

OPTOM 200E Advanced Procedures in Ocular Disease Diagnosis and Management 2 Units

Terms offered: Fall 2024, Fall 2023
Instrumentation, techniques, and principles for examination, diagnosis, and treatment of ocular disease, including advanced laser trabeculoplasy, YAG capsulotomy, injections, suturing, dilation & irrigation, and peri-operative cataract care.
Advanced Procedures in Ocular Disease Diagnosis and Management: Read More [+]
Objectives & Outcomes

Course Objectives: To build on clinical skills and knowledge gained from previous courses that will enable interns to provide full scope contemporary optometric care. Lectures are used to present a context for the procedures and allow students to see how the skills can be applied in the clinic.

Rules & Requirements

Prerequisites: OPTOM 200A, 200AL, 200B, 200BL, 200C, 200CL, 200D, 200DL

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructors: Whiteside, Kanai, Shabazian

Advanced Procedures in Ocular Disease Diagnosis and Management: Read Less [-]

OPTOM 200F Advanced Procedures in Ocular Disease Diagnosis and Management 2 Units

Terms offered: Not yet offered
Instrumentation, techniques, and principles for examination, diagnosis, and treatment of ocular disease, including ophthalmic laser instrumentation, surgical laser procedures, minor surgical techniques, pre- and post-operative considerations, thresholds for making appropriate surgical referrals, informed consent, and safety considerations.
Advanced Procedures in Ocular Disease Diagnosis and Management: Read More [+]

Rules & Requirements

Prerequisites: OPTOM 200E, OPTOM 200D, OPTOM 200C, OPTOM 200B, OPTOM 200A OPTOM 200DL, OPTOM 200CL, OPTOM 200BL, OPTOM 200AL,

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructors: Whiteside, Shabazian, Kunai

Advanced Procedures in Ocular Disease Diagnosis and Management: Read Less [-]

OPTOM 203A Geometric Optics 4 Units

Terms offered: Not yet offered
Geometrical methods applied to the optics of lenses, mirrors, and prisms. Thin lens eye models, magnification, astigmatism, prism properties of lenses, thick lenses.
Geometric Optics: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture, 1 hour of discussion, and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: Vision Science 203A

Geometric Optics: Read Less [-]

OPTOM 203B Optical System and Physical Optics 4 Units

Terms offered: Not yet offered
Principles of optical systems, principles and clinical applications of aperatures and stops, aberrations and optical instruments. Optics of the eye. Selected topics in physical optics, diffraction, interference, polarization.
Optical System and Physical Optics: Read More [+]

Objectives & Outcomes

Course Objectives: to be able to apply basic principles to design systems or solve problems
to understand basic principles underlying optical systems and physical optics

Rules & Requirements

Prerequisites: 203A

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture, 1 hour of discussion, and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: Vision Science 203B

Optical System and Physical Optics: Read Less [-]

OPTOM 205 Visual Perception Sensitivity 4 Units

Terms offered: Not yet offered
This course will provide a fundamental understanding of visual processing, so students will be able to (1) understand the limitations of the clinical procedures in an eye exam;(2) address patients' complaints and symptoms. Content covered includes psychophysical basis for clinical tests in acuity, perimetry, and color vision. The visual stimulus and photometry. Visual receptors, psychophysical methods and visual threshold, light sensitivity, contrast sensitivity, light and dark adaptation, temporal and spatial properties of visual function, color vision, visual illusion, how visual perception changes with age and disease, and the basis for advanced diagnostic procedures.
Visual Perception Sensitivity: Read More [+]
Rules & Requirements

Credit Restrictions: Students will receive no credit for OPTOM 205 after completing VIS SCI 104.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 3.5 hours of lecture, 1 hour of discussion, and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: Vision Science 205

Visual Perception Sensitivity: Read Less [-]

OPTOM 206A Anatomy and Physiology of the Eye 2 Units

Terms offered: Not yet offered
The course begins with an overview of the gross anatomy and physiology of the eye, followed by a brief introduction of basic cellular biology and genetics. Subsequent lectures mainly focus on anterior parts of the eyeball to explore the anatomy, physiological function and related eye diseases in detail.
Anatomy and Physiology of the Eye: Read More [+]
Objectives & Outcomes

Course Objectives: To teach the fundamental knowledge about Anatomy and Physiology of the Eye with advanced molecular, cellular and genetic information that are related to ocular diseases in clinic diagnosis/treatment.

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 7.5 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: Vision Science 206A

Anatomy and Physiology of the Eye: Read Less [-]

OPTOM 206B Anatomy and Physiology of the Eye and Visual System 3 Units

Terms offered: Not yet offered
This course emphasizes learning the terminology, definitions and structural relationships of the bones, muscles, adnexa, vasculature and nervous tissue of the eye and orbit. Relevant clinical case examples will be used to highlight the application of basic anatomy and physiology for diagnosing and managing diseases and disorders of the eye and visual system. Topics covered include structure and function of the tissues of the eye, ocular appendages, vasculature, cranial nerves, and the central visual pathways. Basic concepts of physiological, neurological, embryological, and immunological processes as they relate to the eye and vision will be covered.
Anatomy and Physiology of the Eye and Visual System: Read More [+]
Rules & Requirements

Prerequisites: OPTOM 206A

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture, 0.5 hours of discussion, and 1 hour of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: Vision Science 206B

Anatomy and Physiology of the Eye and Visual System: Read Less [-]

OPTOM 206D Neuroanatomy and Neurophysiology of the Eye and Visual System 2 Units

Terms offered: Not yet offered
This course focuses on structure and function of the neurosensory retina, photoreceptors, RPE including blood supply. Current concepts of etiology and management of major retinal conditions. Overview of diagnostic techniques in retinal imaging, electrophysiologic testing and new genetic approaches. Structure and function of the early visual pathway, including retinal ganglion cells, optic nerves, lateral geniculate nucleus and visual cortex. Pupillary responses. Specialization in the visual cortex.
Neuroanatomy and Neurophysiology of the Eye and Visual System: Read More [+]
Rules & Requirements

Prerequisites: 206A (must be taken concurrently)

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 7.5 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: Vision Science 206D

Neuroanatomy and Neurophysiology of the Eye and Visual System: Read Less [-]

OPTOM 213 Evidence Based Optometry 1 Unit

Terms offered: Fall 2015, Fall 2014, Spring 2014
Basic concepts in evidence based optometry including various clincal study designs, potential sources of bias in each design as well as development of a systematic approach to evaluate strength of evidence from published studies, to identify potential limitations and develop appreciation for the importane of evidence based practice as a practice philosphy.
Evidence Based Optometry: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Instructor: Liu

Evidence Based Optometry: Read Less [-]

OPTOM 217 Oculomotor Functions and Neurology 2 Units

Terms offered: Not yet offered

Neuro-anatomical pathways for the control of eye position and movement, gaze holding, image stabilization, and tracking eye movement systems, oculomotor signs of disorders of the central nervous system (palsies, nystagmus, ophthalmoplegia, cog-wheel pursuits, saccadic dysmetria), the near visual-motor response and the synergistic coupling of accommodation and convergence, binocular misalignment (heterophoria and fixation disparity), and presbyopia.

Oculomotor Functions and Neurology: Read More [+]

Rules & Requirements

Prerequisites: OPTOM 203A

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 7.5 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructor: Otero-Milan

Formerly known as: Vision Science 217

Oculomotor Functions and Neurology: Read Less [-]

OPTOM 219 Binocular Vision and Space Perception 2 Units

Terms offered: Not yet offered

The goals of this course are to provide mastery of the fundamentals of binocular vision and to introduce the role of binocular vision in optometric primary care. Topics covered include: perception of space, direction and distance, binocular retinal correspondence, horopters, differential magnification effects and anomalies of binocular vision development, sensory vision, local stereopsis, static and dynamic stereopsis, binocular depth cues.

Binocular Vision and Space Perception: Read More [+]

Rules & Requirements

Prerequisites: OPTOM 203A

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 7.5 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructor: Cooper

Formerly known as: Vision Science 219

Binocular Vision and Space Perception: Read Less [-]

OPTOM 222A Optics of Ophthalmic Lenses 4 Units

Terms offered: Spring 2021, Spring 2020, Spring 2016
Optical and physical characteristics of ophthalmic lenses, to include spheric and aspherical surface of single and multifocal lens designs, and ophthalmic prisms. Lens power measurement methods, lens thickness power relationships and considerations in designing prescription eyewear. Characteristics of absorptive lenses, ophthalmic coatings, lens materials, and their role in ocular protection.
Optics of Ophthalmic Lenses: Read More [+]
Objectives & Outcomes

Course Objectives: Develop an understanding of ophthalmic dispensing principles and its proper clinical application.
Facilitate successful completion of Ophthalmic Optics related questions on the clinical and written NBO exam
To facilitate the appreciation for the field of ophthalmic optics pertaining to lens materials properties and the optics and properties of ophthalmic lenses.
To have in concept, an understanding of the overall process by which ophthalmic prescriptions are designed & fabricated.
To understand the proper utilization of ophthalmic materials, ophthalmic lenses and its design; its relationship to meeting the patient's visual needs in an Optometric practice.

Rules & Requirements

Prerequisites: Vision Science 203A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Optics of Ophthalmic Lenses: Read Less [-]

OPTOM 222B Advanced Clinical Optics 2 Units

Terms offered: Fall 2015, Spring 2015, Fall 2014
Ophthalmic lens aberrations and minimization. Ophthalmic lens designs relating to anisometropia, aniseikonia, and high refractive errors. Optics of the eye, contact lens optics, and optical principles of low vision aids. Environmental vision and related ophthalmic standards.
Advanced Clinical Optics: Read More [+]
Rules & Requirements

Prerequisites: 222A

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 122B

Advanced Clinical Optics: Read Less [-]

OPTOM 226A Systemic Pharmacology 2.5 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017
Basic pharmacology, terminology, and concepts (both pharmacodynamic and pharmacokinetic) and pharmacotheraphy of medical conditions commonly encountered in clinical optometric practice (including cardiovascular disease, respiratory disease, diabetes, infection and inflammatory conditions, as well as central nervous system disorders).
Systemic Pharmacology: Read More [+]
Rules & Requirements

Prerequisites: Vision Science 206D

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Instructor: Wildsoet

Systemic Pharmacology: Read Less [-]

OPTOM 226B Ocular Pharmacology 2.5 Units

Terms offered: Spring 2017, Spring 2016, Spring 2015
Basic pharmacology, terminology, and concepts (both pharmacodynamic and pharmacokinetic) as applied to the eye and ophthalmic drugs, clinical prescribing issues including formulation, dosing and prescribing, and pharmacotherapy of anti-inflammatory, centrally acting, hormonal and other "specialist" systemic drugs.
Ocular Pharmacology: Read More [+]
Rules & Requirements

Prerequisites: 226A

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Instructor: Wildsoet

Ocular Pharmacology: Read Less [-]

OPTOM 230A Graduate General Clinical Practice 2 - 6 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
General optometric practice for four hours per week per credit hour, including optometric examination, dispensing, consultation, and subsequent vision care of patients, performed independently by graduate student clinicians.
Graduate General Clinical Practice: Read More [+]
Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Graduate General Clinical Practice: Read Less [-]

OPTOM 230B Graduate General Clinical Practice 2 - 6 Units

Terms offered: Spring 2023, Spring 2017, Spring 2016
General optometric practice for four hours per week per credit hour, including optometric examination, dispensing, consultation, and subsequent vision care of patients, performed independently by graduate student clinicians.
Graduate General Clinical Practice: Read More [+]
Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Graduate General Clinical Practice: Read Less [-]

OPTOM 231A Graduate Specialty Clinics 2 - 8 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Clinical examination of patients in designated specialty clinics. More than one clinical specialty may be taken simultaneously.
Graduate Specialty Clinics: Read More [+]
Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Graduate Specialty Clinics: Read Less [-]

OPTOM 231B Graduate Specialty Clinics 2 - 8 Units

Terms offered: Spring 2024, Spring 2023, Spring 2017
Clinical examination of patients in designated specialty clinics. More than one clinical specialty may be taken simultaneously.
Graduate Specialty Clinics: Read More [+]
Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Instructor: Orel-Bixler

Graduate Specialty Clinics: Read Less [-]

OPTOM 236A Systemic Disease and its Ocular Manifestations 3 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017
The pathophysiology, pharmacotherapy, and clinical management of systemic and ocular diseases will be discussed through a combination of lecture and problem-based learning approaches. Disease processes will be emphasized and include cellular injury and repair, inflammation, infection, degeneration, and neoplasia. Neurologic, cardiovascular, endocrine, pulmonary, and congenital disease and their relative ocular manifestations will be presented.
Systemic Disease and its Ocular Manifestations: Read More [+]
Rules & Requirements

Prerequisites: 200D. 236A is a prerequisite for 236B

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Instructor: Harvey

Systemic Disease and its Ocular Manifestations: Read Less [-]

OPTOM 236B Systemic Disease and its Ocular Manifestations 3 Units

Terms offered: Spring 2017, Spring 2016, Spring 2015
The pathophysiology, pharmacotherapy, and clinical management of systemic and ocular diseases will be discussed through a combination of lecture and problem-based learning approaches. Disease processes will be emphasized and include cellular injury and repair, inflammation, infection, degeneration, and neoplasia. Neurologic, cardiovascular, endocrine, pulmonary, and congenital disease and their relative ocular manifestations will be presented.
Systemic Disease and its Ocular Manifestations: Read More [+]
Rules & Requirements

Prerequisites: 236A

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Instructor: Harvey

Systemic Disease and its Ocular Manifestations: Read Less [-]

OPTOM 240 Diagnosis and Treatment of Sensory/Motor Anomalies 3 Units

Terms offered: Spring 2021, Spring 2020, Spring 2017
Diagnosis and treatment of heterophoria, accommodative, vergence and oculomotor anomalies including sensory anomalies and amblyopia. Rationale and methods for treatment with lenses, prism, occlusion, and vision training. Design and implementation of treatment programs.
Diagnosis and Treatment of Sensory/Motor Anomalies: Read More [+]
Rules & Requirements

Prerequisites: Vision Science 217 and 219

Hours & Format

Fall and/or spring: 15 weeks - 2.5 hours of lecture and 16 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 140

Diagnosis and Treatment of Sensory/Motor Anomalies: Read Less [-]

OPTOM 241 Advanced Management and Rehabilitation of Sensory/Motor Anomalies 3 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017
Advanced diagnosis, prognosis and treatment of strabismus, neurologic oculomotor disorders, amblyopia, and other associated sensory anomalies. Assessment and management of developmental and acquired visual perceptual disorders in relationship to learning disabilities. Design and implementation of treatment programs.
Advanced Management and Rehabilitation of Sensory/Motor Anomalies: Read More [+]
Rules & Requirements

Prerequisites: 240

Hours & Format

Fall and/or spring: 15 weeks - 2.5 hours of lecture and 16 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 141

Advanced Management and Rehabilitation of Sensory/Motor Anomalies: Read Less [-]

OPTOM 246 Diagnosis and Treatment of Anterior Segment Ocular Disease 4 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
This course series consists of the pathophysiology, pharmacotherapy, and clinical management of systemic and ocular diseases through a combination of lecture and problem-based learning approaches. Disease processes will be emphasized and include cellular injury and repair, inflammation, infection, degeneration, and neoplasia. Neurologic, cardiovascular, endocrine, pulmonary, and congenital disease, and their relative ocular manifestations will be presented. The basic principles of pharmacology will be followed by overviews of drugs used to treat diseases of each system. The role of the optometrist in the health care system will be emphasized.
Diagnosis and Treatment of Anterior Segment Ocular Disease: Read More [+]
Rules & Requirements

Prerequisites: 236

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 146

Diagnosis and Treatment of Anterior Segment Ocular Disease: Read Less [-]

OPTOM 251 Low Vision 2.5 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Epidemiology and etiology of low vision. Optical principles of low vision aids. Optometric examination and treatment of the low vision patient. Interdisciplinary rehabilitation resources, counseling, and referral.
Low Vision: Read More [+]
Rules & Requirements

Prerequisites: 200D

Hours & Format

Fall and/or spring: 15 weeks - 2.5 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 151

Low Vision: Read Less [-]

OPTOM 256 Diagnosis and Treatment of Posterior Segment Ocular Disease 4 Units

Terms offered: Spring 2017, Spring 2016, Spring 2015
This course series consists of the pathophysiology, pharmacotherapy, and clinical management of systemic and ocular diseases through a combination of lecture and problem-based learning approaches. Disease processes will be emphasized and include cellular injury and repair, inflammation, infection, degeneration, and neoplasia. Neurologic, cardiovascular, endocrine, pulmonary, and congenital disease and their relative ocular manifestations will be presented. The basic principles of pharmacology will be followed by overviews of drugs used to treat diseases of each system. The role of the optometrist in the health care system will be emphasized.
Diagnosis and Treatment of Posterior Segment Ocular Disease: Read More [+]
Rules & Requirements

Prerequisites: 246

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 156

Diagnosis and Treatment of Posterior Segment Ocular Disease: Read Less [-]

OPTOM 260A Contact Lenses: Examination Principles and Practice 3 Units

Terms offered: Spring 2021, Spring 2020, Spring 2019
Examination procedures and instrumentation used in monitoring the ocular response to contact lenses. Contact lens inspection, care, and handling. Physical and optical properties of contact lenses. Fitting contact lenses to the human eye, clinical implications. The Sarver Lecture series in Contact Lenses (12 hours on a Saturday and Sunday.)
Contact Lenses: Examination Principles and Practice: Read More [+]
Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Formerly known as: 160A

Contact Lenses: Examination Principles and Practice: Read Less [-]

OPTOM 270C Eyecare Business and Professional Management II 2 Units

Terms offered: Spring 2017, Spring 2016, Spring 2015
Entrepreneurship, financing alternatives, business loans, human resources, marketing, personal finance, business law as it affects optometry.
Eyecare Business and Professional Management II: Read More [+]
Rules & Requirements

Prerequisites: 270A

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Eyecare Business and Professional Management II: Read Less [-]

OPTOM 271A Exploring principles of practice management and modes of optometric practice 0.5 Units

Terms offered: Fall 2024, Fall 2023
Discussion of the numerous opportunities and modes of practice in optometry.
Discussion of business and management principles related to optometry, as well as basic financial literacy. Topics will include personal financial management, budgeting, and investing in order to develop financial stability upon graduation and maintain it in the future. Additional discussion will include the importance of managing personnel and patients, practicing cultural humility, understanding issues related to diversity and equity, as well as the importance of providing sustainable health solutions and promoting a more equitable healthcare environment.
Exploring principles of practice management and modes of optometric practice: Read More [+]
Objectives & Outcomes

Course Objectives: To establish the foundations of financial literacy and financial stability.
To understand the importance and significance of diversity, equity, and inclusion, as well as social determinants in healthcare.
To understand the importance of human resource management in healthcare and how it is critical to success and patient care.
To understand the various modes of practice in optometry and explore the numerous pathways of an optometric career in the healthcare system.

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0.25 hours of lecture and 0.25 hours of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructor: Wang

Exploring principles of practice management and modes of optometric practice: Read Less [-]

OPTOM 271B Exploring principles of practice management and modes of optometric practice 0.5 Units

Terms offered: Spring 2024
This course is the second in a two-part series designed to evaluate the numerous opportunities and modes of practice in optometry. Principles of business and management will be introduced, as well as basic financial literacy. Topics covered will include management of personal finances, budgeting, and investing. Students will be introduced to the various opportunities available to optometrists and different modes of practice, as well as the importance of navigating business relationships and patient-provider interactions with an appreciation for cultural differences. Emphasis will be placed on raising the awareness of diversity and equity issues that are key to providing sustainable health solutions and an equitable healthcare environment.
Exploring principles of practice management and modes of optometric practice: Read More [+]

Objectives & Outcomes

Course Objectives: To establish the foundations of financial literacy and financial stability.
To understand the importance and significance of diversity, and inclusion, and social determinants in healthcare.
To understand the importance of human resource management in healthcare and how it is critical to success and patient care.
To understand the various modes of practice in optometry and explore the numerous pathways of an optometric career in the healthcare system.

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0.25 hours of lecture and 0.25 hours of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructor: Wang

Exploring principles of practice management and modes of optometric practice: Read Less [-]

OPTOM 272A Health Economics, Law and Policy for Optometrists 2 Units

Terms offered: Fall 2019
The course will examine the history of US health care, healthcare systems in other countries, key economic issues that drive health care costs, value-based models of care delivery, current laws and policies that impact optometrist and social determinants of health.
Health Economics, Law and Policy for Optometrists: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Health Economics, Law and Policy for Optometrists: Read Less [-]

OPTOM 281A Graduate Clinical Rounds 1 - 3 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Presentation and discussion of the diagnosis, etiology, prognosis, and treatment of selected clinical cases.
Graduate Clinical Rounds: Read More [+]

Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Graduate Clinical Rounds: Read Less [-]

OPTOM 281B Graduate Clinical Rounds 1 - 3 Units

Terms offered: Spring 2024, Spring 2023, Spring 2017
Presentation and discussion of the diagnosis, etiology, prognosis, and treatment of selected clinical cases.
Graduate Clinical Rounds: Read More [+]
Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Graduate Clinical Rounds: Read Less [-]

OPTOM 291A Optometry Research Project 1 Unit

Terms offered: Fall 2015, Fall 2014, Fall 2013
Thesis research for optometry students. Presentation of research results.
Optometry Research Project: Read More [+]
Rules & Requirements

Prerequisites: 290A-290B

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only. This is part one of a year long series course. A provisional grade of IP (in progress) will be applied and later replaced with the final grade after completing part two of the series.

Instructor: Cohn

Formerly known as: 191A-191B

Optometry Research Project: Read Less [-]

OPTOM 291B Optometry Research Project 1 Unit

Terms offered: Spring 2024, Spring 2023, Spring 2017
Thesis research for optometry students. Presentation of research results.
Optometry Research Project: Read More [+]
Rules & Requirements

Prerequisites: 290A-290B

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of discussion per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only. This is part two of a year long series course. Upon completion, the final grade will be applied to both parts of the series.

Formerly known as: 190A-190B

Optometry Research Project: Read Less [-]

OPTOM 292A Graduate Optometry Seminar 1 - 3 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022
Graduate seminars on selected topics in clinical optometry.
Graduate Optometry Seminar: Read More [+]
Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Graduate Optometry Seminar: Read Less [-]

OPTOM 292B Graduate Optometry Seminar 1 - 3 Units

Terms offered: Spring 2024, Spring 2023, Spring 2017
Graduate seminars on selected topics in clinical optometry.
Graduate Optometry Seminar: Read More [+]

Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Graduate Optometry Seminar: Read Less [-]

OPTOM 298A Independent or Group Studies 1 - 6 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022
Directed studies on a selected topic(s) within optometry.
Independent or Group Studies: Read More [+]

Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Independent or Group Studies: Read Less [-]

OPTOM 298B Independent or Group Studies 1 - 6 Units

Terms offered: Spring 2024, Spring 2023, Spring 2021
Directed studies on a selected topic(s) within optometry.
Independent or Group Studies: Read More [+]

Rules & Requirements

Prerequisites: O.D. degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Independent or Group Studies: Read Less [-]

OPTOM 299A Graduate Optometry Research 2 - 4 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Directed research on a selected topic within clinical optometry.
Graduate Optometry Research: Read More [+]

Rules & Requirements

Prerequisites: O.D. Degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Graduate Optometry Research: Read Less [-]

OPTOM 299B Graduate Optometry Research 2 - 4 Units

Terms offered: Spring 2024, Spring 2023, Spring 2021
Directed research on a selected topic within clinical optometry.
Graduate Optometry Research: Read More [+]

Rules & Requirements

Prerequisites: O.D. Degree

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Optometry/Graduate

Grading: Letter grade.

Graduate Optometry Research: Read Less [-]

OPTOM 430A Optometry Clinics 4 Units

Terms offered: Summer 2017 First 6 Week Session, Summer 2017 Second 6 Week Session, Summer 2016 Second 6 Week Session
Clinical practice in examination techniques and interpretation of clinical data. Primary care optometric exams.
Optometry Clinics: Read More [+]

Rules & Requirements

Prerequisites: Opt 200D and Opt 200DL

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Summer: 6 weeks - 24 hours of clinic and 3 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Optometry Clinics: Read Less [-]

OPTOM 430B Optometry Clinics 9 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022
Examination of patients in a primary care setting, prescribing of optometric therapy, management of emergency procedures, and vision screenings of children and adults.
Optometry Clinics: Read More [+]

Rules & Requirements

Prerequisites: 430A

Hours & Format

Summer:
6 weeks - 37 hours of clinic, 1.5 hours of lecture, and 5 hours of seminar per week
8 weeks - 32 hours of clinic, 1 hour of lecture, and 4 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Instructor: Revelli

Optometry Clinics: Read Less [-]

OPTOM 430C Optometry Clinics 9 Units

Terms offered: Spring 2024, Spring 2023, Spring 2021
Examination of patients in a primary care setting, prescribing of optometric therapy, management of emergency procedures, and vision screenings of children and adults.
Optometry Clinics: Read More [+]

Rules & Requirements

Prerequisites: 430A

Hours & Format

Summer:
6 weeks - 37 hours of clinic, 1.5 hours of lecture, and 5 hours of seminar per week
8 weeks - 32 hours of clinic, 1 hour of lecture, and 4 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Instructor: Revelli

Optometry Clinics: Read Less [-]

OPTOM 432 Introduction to Clinical Topics for the New Clinician 2 Units

Terms offered: Summer 2017 10 Week Session
This course emphasizes ocular conditions and diseases that are commonly encountered during patient care. The goal is to improve observational skills for new clinicians by presenting clinical information in a Grand Rounds format and to increase efficiency for comprehensive eye examinations by outlining alternative strategies for examining patients and analyzing clinical data.
Introduction to Clinical Topics for the New Clinician: Read More [+]
Rules & Requirements

Prerequisites: Optom 200D Clinical Examination of the Visual System

Repeat rules: Course may be repeated for credit with advisor consent.

Hours & Format

Summer: 10 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Instructor: Ozawa

Introduction to Clinical Topics for the New Clinician: Read Less [-]

OPTOM 435 Advanced Procedures in Ocular Disease Diagnosis 2 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017
Instrumentation, techniques, and principles for examination, diagnosis, and treatment of ocular disease. Introduction to optometric informatics related to ocular disease.
Advanced Procedures in Ocular Disease Diagnosis: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Advanced Procedures in Ocular Disease Diagnosis: Read Less [-]

OPTOM 440A Advanced Optometry Clinic 2.5 Units

Terms offered: Summer 2017 First 6 Week Session, Summer 2017 Second 6 Week Session, Summer 2016 Second 6 Week Session
Optometric examination of patients in the primary care clinic performed independently by student clinicians under supervision of the clinical staff.
Advanced Optometry Clinic: Read More [+]
Rules & Requirements

Prerequisites: 430C

Repeat rules: Course may be repeated for credit up to a total of 3 times.

Hours & Format

Summer: 6 weeks - 2 hours of seminar and 16 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Advanced Optometry Clinic: Read Less [-]

OPTOM 440B Advanced Optometry Clinic 9 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022
Examination of patients in a primary care setting. Diagnosis, prognosis, treatment, patient management and follow-up.
Advanced Optometry Clinic: Read More [+]
Rules & Requirements

Prerequisites: 440A and 441A

Hours & Format

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Instructor: Revelli

Advanced Optometry Clinic: Read Less [-]

OPTOM 440C Advanced Optometry Clinic 9 Units

Terms offered: Spring 2021, Spring 2020, Spring 2019
Examination of patients in a primary care setting. Diagnosis, prognosis, treatment, patient management and follow-up.
Advanced Optometry Clinic: Read More [+]
Rules & Requirements

Prerequisites: 440A and 441A (offered Summer Session only)

Hours & Format

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Instructor: Revelli

Advanced Optometry Clinic: Read Less [-]

OPTOM 441A Specialty Clinics 2.5 Units

Terms offered: Summer 2017 First 6 Week Session, Summer 2017 Second 6 Week Session, Summer 2016 Second 6 Week Session
Examination, diagnosis, prognosis, treatment, and management of patients in the specialty clinics.
Specialty Clinics: Read More [+]
Rules & Requirements

Prerequisites: 430C

Repeat rules: Course may be repeated for credit up to a total of 3 times.

Hours & Format

Summer: 6 weeks - 2 hours of seminar and 16 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Specialty Clinics: Read Less [-]

OPTOM 441B Specialty Clinics 7 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Examination, diagnosis, prognosis, treatment, and/or management of patients in specialty clinics; ocular disease, contact lenses, binocular vision, ophthalmic optics, and environmental and occupational vision.
Specialty Clinics: Read More [+]
Rules & Requirements

Prerequisites: 440A and 441A (offered Summer Session only)

Hours & Format

Summer:
6 weeks - 2.5 hours of seminar and 18 hours of clinic per week
8 weeks - 2 hours of seminar and 16 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Specialty Clinics: Read Less [-]

OPTOM 441C Specialty Clinics 7 Units

Terms offered: Spring 2021, Spring 2020, Spring 2019
Examination, diagnosis, prognosis, treatment, and/or management of patients in specialty clinics; ocular disease, contact lenses, binocular vision, ophthalmic optics, and environmental and occupational vision.
Specialty Clinics: Read More [+]
Rules & Requirements

Prerequisites: 440A and 441A (offered Summer Session only)

Hours & Format

Summer:
6 weeks - 2.5 hours of seminar and 18 hours of clinic per week
8 weeks - 2 hours of seminar and 16 hours of clinic per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Specialty Clinics: Read Less [-]

OPTOM 450A Grand Rounds and Seminar 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Presentation of clinical cases demonstrating basic and advanced optometric care, including diagnosis, treatment, and patient management.
Grand Rounds and Seminar: Read More [+]

Rules & Requirements

Prerequisites: 440A

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of discussion per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Instructors: Bailey, Sheedy

Formerly known as: 450B-450C

Grand Rounds and Seminar: Read Less [-]

OPTOM 450B Grand Rounds and Seminar 2 Units

Terms offered: Spring 2021, Spring 2020, Spring 2019
Presentation of clinical cases demonstrating basic and advanced optometric care, including diagnosis, treatment, and patient management.
Grand Rounds and Seminar: Read More [+]

Rules & Requirements

Prerequisites: 440A

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of discussion per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Instructor: Revelli

Grand Rounds and Seminar: Read Less [-]

OPTOM 452 Current Concepts in Ocular Disease 1 Unit

Terms offered: Spring 2021, Spring 2020, Spring 2019
Recent advances in the detection, diagnosis, and management of ocular disease.
Current Concepts in Ocular Disease: Read More [+]

Rules & Requirements

Prerequisites: 440B and 441B

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Letter grade.

Current Concepts in Ocular Disease: Read Less [-]

OPTOM 490A Optometric Spanish - Beginner Level I 1 Unit

Terms offered: Prior to 2007
This course provides an introduction to Spanish in its uses in a clinical optometry setting with the Spanish-speaking patient. Basic vocabulary and grammar acquisition and skill building exercises will help the practitioner perform conversations and procedures in simple but accurate and clear communications. The sounds and structures of Spanish, including the present tense and some other verbs will be covered.
All materials will be taught and practiced in relation to their practical application in a clinical setting.
Optometric Spanish - Beginner Level I: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture per week

Summer: 8 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Offered for satisfactory/unsatisfactory grade only.

Optometric Spanish - Beginner Level I: Read Less [-]

OPTOM 490B Optometric Spanish - Intermediate Level II 1 Unit

Terms offered: Summer 2008 10 Week Session
This course provides vocabulary and grammar acquisition and skill building for the intermediate to advanced Spanish student who works with Spanish-speaking patients in the field of optometry. Emphasis is on practical, hands-on application of the materials: patient interviewing, doing various aspects of the eye exam, taking a history, and giving diagnostic, treatment, and follow-through information to the patient, with appropriate cultural sensitivity, taking into consideration the socio-cultural background of the patient. The goal is accurate and sophisticated communication.
Optometric Spanish - Intermediate Level II: Read More [+]
Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture per week

Summer: 8 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Offered for satisfactory/unsatisfactory grade only.

Optometric Spanish - Intermediate Level II: Read Less [-]

OPTOM 499 Supervised Independent Study 1 - 12 Units

Terms offered: Fall 2024, Spring 2024, Fall 2023
Independent study under control of Associate Dean for Student Affairs.
Supervised Independent Study: Read More [+]
Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-12 hours of independent study per week

Summer:
6 weeks - 2.5-18 hours of independent study per week
8 weeks - 1.5-22.5 hours of independent study per week

Additional Details

Subject/Course Level: Optometry/Other professional

Grading: Offered for satisfactory/unsatisfactory grade only.

Supervised Independent Study: Read Less [-]

Vision Science

Expand all course descriptions [+]Collapse all course descriptions [-]

VIS SCI 24 Freshman Seminars 1 Unit

Terms offered: Fall 2021, Spring 2021, Spring 2020
The Freshman Seminar Program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small-seminar setting. Freshman seminars are offered in all campus departments, and topics vary from department to department and semester to semester. Enrollment limited to 15 freshmen.
Freshman Seminars: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Vision Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Freshman Seminars: Read Less [-]

VIS SCI 39 Freshman and Sophomore Seminar 1.5 - 3 Units

Terms offered: Fall 2021, Spring 2021, Fall 2020
Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester. Enrollment limits are set by the faculty but the suggested limit is 25.
Freshman and Sophomore Seminar: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1.5-3 hours of seminar per week

Additional Details

Subject/Course Level: Vision Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final Exam To be decided by the instructor when the class is offered.

Freshman and Sophomore Seminar: Read Less [-]

VIS SCI 84 Sophomore Seminar 1 or 2 Units

Terms offered: Fall 2024, Spring 2024, Fall 2023
Sophomore seminars are small interactive courses offered by faculty members in departments all across the campus. Sophomore seminars offer opportunity for close, regular intellectual contact between faculty members and students in the crucial second year. The topics vary from department to department and semester to semester. Enrollment limited to 15 sophomores.
Sophomore Seminar: Read More [+]
Rules & Requirements

Prerequisites: At discretion of instructor

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring:
5 weeks - 3-6 hours of seminar per week
10 weeks - 1.5-3 hours of seminar per week
15 weeks - 1-2 hours of seminar per week

Summer:
6 weeks - 2.5-5 hours of seminar per week
8 weeks - 1.5-3.5 hours of seminar and 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Vision Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Sophomore Seminar: Read Less [-]

VIS SCI 199 Supervised Independent Study and Research 1 - 4 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022
Supervised independent study and research. Enrollment restrictions apply; see the Introduction to Courses and Curricula section of this catalog.
Supervised Independent Study and Research: Read More [+]
Rules & Requirements

Prerequisites: Upper division status and consent of instructor, the student's major adviser and the departmental chair

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Summer: 8 weeks - 1.5-7.5 hours of independent study per week

Additional Details

Subject/Course Level: Vision Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam required.

Supervised Independent Study and Research: Read Less [-]

VIS SCI 201A Seminar in Vision Science 2 Units

Terms offered: Fall 2024, Fall 2023, Fall 2021
Graduate seminar in vision science.
Seminar in Vision Science: Read More [+]
Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructor: VS faculty

Seminar in Vision Science: Read Less [-]

VIS SCI 201B Seminar in Vision Science 2 Units

Terms offered: Spring 2024, Spring 2023, Spring 2022
Graduate seminar in vision science.
Seminar in Vision Science: Read More [+]
Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructor: Gronert

Seminar in Vision Science: Read Less [-]

VIS SCI 206C Anatomy and Physiology of the Eye and Visual System 2 Units

Terms offered: Spring 2021, Spring 2020, Spring 2019
Problem-based learning approach using clinical case examples. Continuation of 206A-206B.
Anatomy and Physiology of the Eye and Visual System: Read More [+]

Rules & Requirements

Prerequisites: 206A-206B

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 7.5 weeks - 4 hours of seminar per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Formerly known as: 106C

Anatomy and Physiology of the Eye and Visual System: Read Less [-]

VIS SCI 215 Visual System Development 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
Development of the eye and visual system. Normal development of the eye, retina, and central visual pathways. Effects of visual deprivation. Assessment of optical and visual function in human infants. Refraction and refractive error in infants and children. Development of visuomotor function, spatial vision, color vision, binocular vision, and depth perception.
Visual System Development: Read More [+]

Rules & Requirements

Prerequisites: 206B

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Formerly known as: 115

Visual System Development: Read Less [-]

VIS SCI 230 Ethics in Scientific Research 2 Units

Terms offered: Spring 2024, Spring 2023, Spring 2022
This seminar will examine a range of ethical issues that arise in the process of doing science. Beginning with the philosophical and social foundations, we will consider the pathogenesis of fraud, statistics and deception, the ethics of authorship and publication, research with human subjects, the use of animals, the definition(s) of misconduct and the difference between misconduct and questionable research practices, the relationship between industry and science, and finally, the responsibilities and obligations of the scientist in society.
Ethics in Scientific Research: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 30 hours of seminar per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Ethics in Scientific Research: Read Less [-]

VIS SCI 260A Optical and Neural Limits to Vision 3 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022
The course will provide an overview of the early stage limits to human vision, from the eye's optics to sampling and processing in the retina. Students will learn basic optical properties of the eye as well as objective and subjective techniques on how to measure limits of human vision. The class will comprise a combination of lectures and active learning by the students in the form of a project, to be presented at the end of the semester. This is one of the four courses that form the Vision Science core curriculum.
Optical and Neural Limits to Vision: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Austin Roorda

Optical and Neural Limits to Vision: Read Less [-]

VIS SCI 260B Introduction to Ocular Biology 3 Units

Terms offered: Fall 2024, Fall 2023, Fall 2020
The course will provide an overview of eye development, anterior eye ocular anatomy and physiology and ocular disease. The course will be a combination of didactic lectures and problem-based learning. This is one of the four courses that form the Vision Science core curriculum.
Introduction to Ocular Biology: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Suzanne Fleiszig

Introduction to Ocular Biology: Read Less [-]

VIS SCI 260C Introduction to Visual Neuroscience 3 Units

Terms offered: Spring 2024, Spring 2023, Spring 2022
The course will provide an overview of the neuroscience of vision, spanning the entire neural pathway from retinal neurobiology to cortical processing of visual signals. The class will comprise a combination of lectures and active learning by the students in the form of a project, to be presented at the end of the semester. This is one of the four courses that form the Vision Science core curriculum.
Introduction to Visual Neuroscience: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Michael Silver

Introduction to Visual Neuroscience: Read Less [-]

VIS SCI 260D Seeing in Time, Space and Color 3 Units

Terms offered: Spring 2024, Spring 2023, Spring 2022
The course will provide an overview of how we see in time (temporal signal processing, eye motion, motion detection), space (stereo vision, depth perception), and color as well as the anatomical and physiological factors that facilitate these capabilities. The course will be series of didactic lectures. This is one of the four courses that form the Vision Science core curriculum
Seeing in Time, Space and Color: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Martin Banks

Seeing in Time, Space and Color: Read Less [-]

VIS SCI 262 Visual Cognitive Neuroscience 3 Units

Terms offered: Fall 2021, Fall 2018, Spring 2016
The course will provide an overview of visual cognitive neuroscience, drawing from neuroanatomy, neurophysiology in humans and animal models, psychophysics, neuroimaging, neuropharmacology, neuropsychology, and computational models of vision and cognition. Topics will include basic anatomy and physiology of the mammalian visual system, motion perception and processing, depth perception and representation of visual space, brightness and color, object and face recognition, visual attention, developmental and adult plasticity, perceptual learning, multisensory integration, and visual awareness.
Visual Cognitive Neuroscience: Read More [+]
Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Silver

Visual Cognitive Neuroscience: Read Less [-]

VIS SCI 265 Neural Computation 3 Units

Terms offered: Fall 2022, Fall 2020, Fall 2018
This course provides an introduction to the theory of neural computation. The goal is to familiarize students with the major theoretical frameworks and models used in neuroscience and psychology, and to provide hands-on experience in using these models. Topics include neural network models, supervised and unsupervised learning rules, associative memory models, probabilistic/graphical models, and models of neural coding in the brain.
Neural Computation: Read More [+]
Rules & Requirements

Prerequisites: Calculus, differential equations, basic probability and statistics, linear algebra, and familiarity with high level programming languages such as Matlab

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Olshausen

Neural Computation: Read Less [-]

VIS SCI C265 Neural Computation 3 Units

Terms offered: Prior to 2007
This course provides an introduction to the theory of neural computation. The goal is to familiarize students with the major theoretical frameworks and models used in neuroscience and psychology, and to provide hands-on experience in using these models. Topics include neural network models, supervised and unsupervised learning rules, associative memory models, probabilistic/graphical models, and models of neural coding in the brain.
Neural Computation: Read More [+]
Rules & Requirements

Prerequisites: Calculus, differential equations, basic probability and statistics, linear algebra, and familiarity with high level programming languages such as Matlab

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Olshausen

Also listed as: NEUROSC C265

Neural Computation: Read Less [-]

VIS SCI C280 Computer Vision 3 Units

Terms offered: Spring 2024, Spring 2023, Spring 2022
Paradigms for computational vision. Relation to human visual perception. Mathematical techniques for representing and reasoning, with curves, surfaces and volumes. Illumination and reflectance models. Color perception. Image segmentation and aggregation. Methods for bottom-up three dimensional shape recovery: Line drawing analysis, stereo, shading, motion, texture. Use of object models for prediction and recognition.
Computer Vision: Read More [+]
Rules & Requirements

Prerequisites: MATH 1A; MATH 1B; MATH 53; and MATH 54 (Knowledge of linear algebra and calculus)

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructor: Malik

Also listed as: COMPSCI C280

Computer Vision: Read Less [-]

VIS SCI 298 Group Studies, Seminars, or Group Research 1 - 6 Units

Terms offered: Fall 2024, Spring 2024, Fall 2023
Group studies of selected topics. Advanced studies in various subjects through special seminars on topics to be selected each year, informal groups studying special problems, group participation in experimental problems and analysis.
Group Studies, Seminars, or Group Research: Read More [+]
Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2-6 hours of lecture per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Group Studies, Seminars, or Group Research: Read Less [-]

VIS SCI 299 Research in Vision Science 1 - 12 Units

Terms offered: Fall 2024, Summer 2024 First 6 Week Session, Summer 2024 Second 6 Week Session
Research.
Research in Vision Science: Read More [+]
Rules & Requirements

Prerequisites: Consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Summer:
6 weeks - 1-16 hours of independent study per week
8 weeks - 1-12 hours of independent study per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Research in Vision Science: Read Less [-]

VIS SCI 300 Teaching Methods in Vision Science 1 Unit

Terms offered: Spring 2024, Spring 2023, Fall 2022
Instruction in teaching methods and materials, in vision science and optometry; practice teaching in classrooms and laboratory.
Teaching Methods in Vision Science: Read More [+]
Rules & Requirements

Prerequisites: Graduate standing in vision science

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture per week

Additional Details

Subject/Course Level: Vision Science/Professional course for teachers or prospective teachers

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructor: Silver

Teaching Methods in Vision Science: Read Less [-]

VIS SCI 375A Teaching Methods in Vision Science, I 1 Unit

Terms offered: Fall 2024, Fall 2023
Instruction in teaching methods and materials in vision science and optometry; practice teaching in classroom and laboratory. Lectures, discussion and outside work related to learning effective teaching styles, developing optimal teaching environments, accessing teaching resources, and fostering professional development.
Teaching Methods in Vision Science, I: Read More [+]
Rules & Requirements

Prerequisites: This course is restricted to student in the Vision Science graduate program

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Vision Science/Professional course for teachers or prospective teachers

Grading: Offered for satisfactory/unsatisfactory grade only.

Teaching Methods in Vision Science, I: Read Less [-]

VIS SCI 375B Teaching Methods in Vision Science, II 1 Unit

Terms offered: Not yet offered
Instruction in teaching methods and materials in vision science and optometry; practice and reflect on teaching in the classroom and laboratory. Lectures, discussion and outside work related to teaching methods and assessment of student learning, including lecture-based, problem-based, active, and inquiry-based learning. Instruction on student engagement and effective communication.
Teaching Methods in Vision Science, II: Read More [+]
Rules & Requirements

Prerequisites: This course is restricted to students in the Vision Science graduate program

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Vision Science/Professional course for teachers or prospective teachers

Grading: Offered for satisfactory/unsatisfactory grade only.

Teaching Methods in Vision Science, II: Read Less [-]

VIS SCI 601 Individual Study for Master's Students 1 - 6 Units

Terms offered: Spring 2021, Spring 2020, Spring 2019
Individual study for the comprehensive requirements in consultation with the adviser in vision science.
Individual Study for Master's Students: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor

Credit Restrictions: Course does not satisfy unit or residence requirements for master's degree.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Vision Science/Graduate examination preparation

Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Master's Students: Read Less [-]

VIS SCI 602 Individual Study for Doctoral Students 1 - 6 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022
Individual study in consultation with the adviser in vision science, intended to provide an opportunity for qualified students to prepare themselves for the various examinations required for the Ph. D.
Individual Study for Doctoral Students: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor

Credit Restrictions: Course does not satisfy unit or residence requirements.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Vision Science/Graduate examination preparation

Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Doctoral Students: Read Less [-]