School of Optometry

Overview

The School of Optometry provides professional training in the art and science of vision care. The four-year professional program leads to the degree of Doctor of Optometry, which qualifies graduates to take the national and state board examinations required for licensure.

Doctors of Optometry are health care professionals. Optometry is a primary health-care profession that encompasses the prevention and remediation of disorders of the vision system through examination, diagnosis, treatment, and/or management of visual efficiency, eye health, and related systemic manifestations. Optometry graduates are trained to diagnose eye diseases, including the ocular manifestations of systemic diseases. The scope of contemporary optometric practice provides practitioners with independent responsibility for nonsurgical pharmaceutical treatment of eye disorders and diseases.

Doctors of Optometry are educated in the sciences of anatomy, chemistry, physics, mathematics, neurology, bacteriology, microbiology, disease processes and detection, pharmacology, behavioral science, social science, public health, and many other related fields. The school provides four years of comprehensive training in vision care aimed at preparing primary eye care providers. The first and second years emphasize courses in the sciences that are foundational to optometry and pre-clinical training in the fundamentals of the optometric examination. Subjects taught include the anatomy and physiology of the eye and visual system, visual perception and sensitivity, optics, oculomotor functions and neurology, binocular vision and space perception, evidence-based optometry, systemic and ocular pharmacology, systemic disease and its ocular manifestations, infant vision, diagnosis and treatment of sensorimotor anomalies, contact lenses, and clinical examination of the visual system. Active responsibility for patient care begins in the spring of the second year. The third year is devoted to advanced training in management and rehabilitation of sensorimotor anomalies, diagnosis and treatment of anterior and posterior segment ocular disease, low vision, advanced procedures in disease diagnosis, and caring for patients in the school's primary care clinics. The fourth year consists of advanced patient care experience acquired in internal rotations through the school's specialty clinics in areas such as low vision, pathology, contact lenses, infant vision, community and geriatric health care, and external rotations through eye care centers located in leading hospitals, medical centers, and clinics across the country.

Optometry offers a wide variety of interesting, challenging, and rewarding careers in private practice, in hospitals and other health organizations, and in public service. The education and clinical experience gained at the School of Optometry equip its graduates with the knowledge base and skills necessary to provide the highest level of contemporary vision care and to engage in lifelong learning to ensure they remain at the forefront of their profession.

Optometric Residency Program

A one-year Optometric Residency program is available to Doctors of Optometry seeking advanced optometric training. Areas of clinical study include binocular vision, cornea and contact lens, low vision, ocular disease, pediatrics, community health, and primary care. Successful completion of the program leads to the awarding of the Optometric Residency Certificate.

For further information about the Optometric Residency Program, please contact the Director of Residency Programs, Dr. Kuniyoshi Kanai, at kunikanai@berkeley.edu.

Undergraduate Program

There is no undergraduate program offered by the School of Optometry.

Graduate Program

Optometry (http://guide.berkeley.edu/archive/2019-20/graduate/degree-programs/optometry): OD

- Optometry (p. 1)
- Vision Science (p.)

Optometry

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

OPTOM 10 The Eye and Vision in a Changing Environment 2 Units

Terms offered: Spring 2020, Spring 2019, Spring 2018
Course covers introduction to the basis of common sight-reducing visual disorders with major public health implications for society--e.g., myopia, cataracts, diabetic hypertensive eye disorders, developmental disorders (e.g., lazy eye), and environmentally induced disease and disorders (solar eye burns, cataracts). Major approaches to the prevention, diagnosis, and treatment of common disorders will be addressed in terms of the biological and optical sciences underlying the treatment or prevention. Impact of eye care on society and health and care delivery will be reviewed.
The Eye and Vision in a Changing Environment: Read More [+]
Hours & Format

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

Additional Details

Subject/Course Level: Optometry/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Adams

The Eye and Vision in a Changing Environment: Read Less [-]

OPTOM C10 The Eye and Vision in a Changing Environment 2 Units

Terms offered: Spring 2010, Spring 2009, Spring 2008
Course covers introduction to the basis of common sight reducing visual disorders with major public health implications for society--e.g., myopia, cataracts, diabetic hypertensive eye disorders, developmental disorders (e.g., lazy eye), and environmentally induced disease and disorders (solar eye burns, cataracts). Major approaches to the prevention, diagnosis, and treatment of common disorders will be addressed in terms of the biological and optical sciences underlying the treatment or prevention. Impact of eye care on society and health and care delivery will be reviewed.
The Eye and Vision in a Changing Environment: Read More [+]
Hours & Format

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

Additional Details

Subject/Course Level: Optometry/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Adams

Also listed as: UGIS C10

The Eye and Vision in a Changing Environment: Read Less [-]

OPTOM 39B Freshman/Sophomore Seminar 2 - 4 Units

Terms offered: Fall 2010, Fall 2009, Fall 2008
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. No prerequisities. Enrollment limits are set by the faculty, but the suggested limit is 25.
Freshman/Sophomore Seminar: Read More [+]
Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores

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

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Optometry/Undergraduate

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

Freshman/Sophomore Seminar: Read Less [-]

OPTOM 84 Sophomore Seminar 1 or 2 Units

Terms offered: Spring 2011, Spring 2010, Spring 2009
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: Optometry/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 [-]

OPTOM 98 Directed Group Study 1 Unit

Terms offered: Fall 2020, Fall 2019, Spring 2019
Directed group study for undergraduates interested in the field of optometry.
Directed Group Study: Read More [+]
Rules & Requirements

Credit Restrictions: Enrollment is restricted; This course requires consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of directed group study per week

Additional Details

Subject/Course Level: Optometry/Undergraduate

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

Instructor: Van Sluyters

Directed Group Study: Read Less [-]

OPTOM 198 Directed Group Studies 1 - 4 Units

Terms offered: Spring 2011, Spring 2010, Spring 2009
Directed group study for undergraduates interested in the field of Optometry.
Directed Group Studies: Read More [+]
Rules & Requirements

Credit Restrictions: Enrollment is restricted; requires consent of instructor

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

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Additional Details

Subject/Course Level: Optometry/Undergraduate

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

Directed Group Studies: Read Less [-]

OPTOM 200A Clinical Examination of the Visual System 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
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 fundus; perimetry.
Clinical Examination of the Visual System: Read More [+]
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: 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 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: Letter grade.

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
Classification and epidemiology of refractive errors, evaluation of accommodative and binocular status. Tonometry, advanced techniques of examining the posterior pole, evaluation of visual pathway function.
Clinical Examination of the Visual System: Read More [+]
Rules & Requirements

Prerequisites: 200A

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.

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 2020, Spring 2017, Spring 2016
Classification and epidemiology of refractive errors, evaluation of accommodative and binocular status. Tonometry, advanced techniques of examining the posterior pole, evaluation of visual pathway function.
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: Letter grade.

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 2020, Spring 2017, Spring 2016
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 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 222A Optics of Ophthalmic Lenses 4 Units

Terms offered: Spring 2020, Spring 2016, Spring 2015
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 [+]
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: Letter grade.

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 2017, Spring 2016, Spring 2015
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 2017, Spring 2016, Spring 2015
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 2020, Spring 2017, Spring 2016
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 2020, Spring 2019, Spring 2018
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 270B Eyecare Business and Professional Management I 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
A review of the optometric profession and its opportunities. Debt management, goal setting, professional practice operations including accounting and finance, patient communications, fee calculation, scheduling, office systems flow and operations. Professional ethics, malpractice, and microeconomics as it affects the practice of optometry.
Eyecare Business and Professional Management I: Read More [+]
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 I: 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 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 2017, Spring 2016, Spring 2015
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 2017, Spring 2016, Spring 2015
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 2020, Fall 2019, Fall 2018
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 2017, Spring 2016, Spring 2015
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 2020, Fall 2019, Fall 2018
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 2020, Spring 2019, Spring 2018
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 2020, Spring 2017, Spring 2016
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 2020, Fall 2019, Fall 2018
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 2020, Spring 2019, Spring 2018
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 2020, Fall 2019, Fall 2018
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 2020, Spring 2019, Spring 2018
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 2020, Spring 2019, Spring 2018
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 2020, Spring 2019, Spring 2018
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 2020, Spring 2019, Spring 2018
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 2020, Summer 2020, Spring 2020
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: Spring 2020, Spring 2019, Fall 2018
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 2020, Spring 2020, Fall 2019
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 2020, Spring 2020, Fall 2019
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 2020, Spring 2020, Fall 2019
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 2020, Fall 2019, Fall 2015
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 2020, Spring 2019, Spring 2018
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 203A Geometric Optics 4 Units

Terms offered: Fall 2016, Fall 2015, Fall 2014
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 [+]
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: Vision Science/Graduate

Grading: Letter grade.

Formerly known as: 101

Geometric Optics: Read Less [-]

VIS SCI 203B Optical System and Physical Optics 4 Units

Terms offered: Spring 2016, Spring 2015, Spring 2014
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 [+]
Rules & Requirements

Prerequisites: 203A

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: Vision Science/Graduate

Grading: Letter grade.

Formerly known as: 102

Optical System and Physical Optics: Read Less [-]

VIS SCI 205 Visual Perception Sensitivity 4.5 Units

Terms offered: Fall 2016, Fall 2015, Fall 2014
Psychophysical basis for clinical tests in acuity, perimetry, and color vision. The visual stimulus and photometry. Visual receptors. Psychophysical method and visual threshold. Light sensitivity. Contrast sensitivity. Light and dark adaptation. Temporal and spatial properties of visual function. Color vision and abnormalities. Changes with age and disease. Visual illusion. Basis for advanced diagnostic procedures.
Visual Perception Sensitivity: Read More [+]
Hours & Format

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

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Formerly known as: 104

Visual Perception Sensitivity: Read Less [-]

VIS SCI 206A Anatomy and Physiology of the Eye 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
This course focuses on the anatomy and physiology of the eyeball. Overview of the gross anatomy of the eye followed by eye-relevant cellular and molecular biology. Cellular and molecular details of structure and function of each of the various non-neural components.
Anatomy and Physiology of the Eye: Read More [+]
Hours & Format

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

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructors: Gong, Fleiszig

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

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

Terms offered: Spring 2020, Spring 2019, Spring 2018
Structure and function of the tissues of the eye, ocular appendages, and the central visual pathways. Basic concepts of physiological, neurological, embryological, and immunological processes as they relate to the eye and vision. Foster an appreciation of the pathophysiology of various disease processes. Convey the importance of anatomy and physiology in the medical approach to ocular disease processes.
Anatomy and Physiology of the Eye and Visual System: Read More [+]
Rules & Requirements

Prerequisites: ViS Sci 206A

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

Hours & Format

Fall and/or spring: 15 weeks - 2.5 hours of lecture and 0.5 hours of laboratory per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

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

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

Terms offered: Spring 2020, Spring 2019, Spring 2018
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 206D Neuroanatomy and Neurophysiology of the Eye and Visual System 2 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013
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)

Hours & Format

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

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Instructors: Flannery, Freeman

Formerly known as: half of 206A

Neuroanatomy and Neurophysiology 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 217 Oculomotor Functions and Neurology 2 Units

Terms offered: Spring 2016, Spring 2015, Spring 2014
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, opthalmoplegia, 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: 203B or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture and 10 hours of laboratory per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Formerly known as: 117

Oculomotor Functions and Neurology: Read Less [-]

VIS SCI 219 Binocular Vision and Space Perception 2 Units

Terms offered: Spring 2016, Spring 2015, Spring 2014
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: 203A-203B

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture and 10 hours of laboratory per week

Additional Details

Subject/Course Level: Vision Science/Graduate

Grading: Letter grade.

Formerly known as: 118

Binocular Vision and Space Perception: Read Less [-]

VIS SCI 230 Ethics in Scientific Research 2 Units

Terms offered: Spring 2020, Spring 2018, Spring 2016
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 2020, Fall 2019, Fall 2018
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 2020, Fall 2019, Fall 2018
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 2020, Spring 2019, Spring 2018
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 2020, Spring 2019, Spring 2018
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 2018, Spring 2016, Spring 2015
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 2020, Fall 2018, Fall 2016
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 2020, Spring 2019, Spring 2018
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: Knowledge of linear algebra and calculus. Mathematics 1A-1B, 53, 54 or equivalent

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 2020, Spring 2020, Fall 2019
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 2020, Summer 2020 Second 6 Week Session, Spring 2020
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: Fall 2020, Spring 2020, Fall 2019
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 601 Individual Study for Master's Students 1 - 6 Units

Terms offered: Spring 2020, Spring 2019, Spring 2018
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 2020, Spring 2020, Fall 2019
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 [-]

Dean

John G. Flanagan, *Dean.*

Associate Dean for Academic Affairs

Gunilla Haegerstrom-Portnoy, *Associate Dean for Academic Affairs*.

Associate Dean for Clinical Affairs

Christina S. Wilmer, *Associate Dean for Clinical Affairs*.

Associate Dean for Student Affairs

Richard C. Van Sluyters, *Associate Dean for Student Affairs*.

Assistant Dean for Student Affairs

Sharon T. Joyce, *Assistant Dean for Student Affairs*.

Assistant Dean, Administration and Finance

Eric Leal, *Assistant Dean, Administration and Finance*.

Assistant Dean, Development and Alumni Relations

Kristen C. Williams, *Assistant Dean, Development and Alumni Relations*.

Director of Affiliated Residency Programs

Christina S. Wilmer, *Director of Affiliated Residency Programs*.

Director of Residencies: On-Campus Programs

Kuniyoshi Kanai, *Director of Residencies: On-Campus Programs*.

Director of Communications and Marketing

Eric Craypo, *Director of Communications and Marketing*.

Chair Graduate Group Vision Science

Karsten Gronert, *Chair Graduate Group Vision Science*.

Professors

Martin S. Banks, *Professor*.

Lu Chen, *Professor*.

Susana T.L. Chung, *Professor*.

John G. Flannery, *Professor*.

Suzanne M. J. Fleiszig, *Professor*.

Xiaohua Gong, *Professor*.

Karsten Gronert, *Professor*.

Gunilla Haegerstrom-Portnoy, *Professor.*

Stanley A. Klein, *Professor*.

Dennis M. Levi, *Professor*.

Bruno A. Olshausen, *Professor*.

Austin J. Roorda, *Professor*.

Richard C. Van Sluyters, *Professor*.

Christine F. Wildsoet, *Professor*.

Associate Professors

Michael A. Silver, *Associate Professor*.

Professors of Clinical Optometry

Deborah A. Orel-Bixler, *Professor of Clinical Optometry*.

Wayne A. Verdon, *Professor of Clinical Optometry*.

Associate Professors of Clinical Optometry

Meng C. Lin, *Associate Professor of Clinical Optometry*.

Nancy A. McNamara, *Associate Professor of Clinical Optometry*.

Assistant Professor of Clinical Optometry

Yue Liu, *Assistant Professor of Clinical Optometry*.

Affiliated Professors

Brian Barsky, *Affiliated Professor*.

Eugene Switkes, *Affiliated Professor*.

Clinical Professors

Shirin Barez, *Clinical Professor*.

Dennis S. Burger, *Clinical Professor*.

Thomas M. Callan, *Clinical Professor*.

Stephen R. Chun, *Clinical Professor*.

John C. Corzine, *Clinical Professor.*

Robert E. Dister, *Clinical Professor*.

Bernard J. Dolan, *Clinical Professor*.

Patsy L. Harvey, *Clinical Professor*.

Craig K. Hisaka, *Clinical Professor*.

Pia Hoenig, *Clinical Professor*.

Carl H. Jacobsen, *Clinical Professor*.

Donald R. Korb, *Clinical Professor.*

Anne Mika Moy, *Clinical Professor.*

Edward J. Revelli, *Clinical Professor*.

A. Lee Scaief, *Clinical Professor*.

Christina S. Wilmer, *Clinical Professor*.

David N. Yang, *Clinical Professor.*

Associate Clinical Professors

Charles Bailey, *Associate Clinical Professor*.

Frank G. Balestrery, *Associate Clinical Professor*.

Darlene T. Fong, *Associate Clinical Professor*.

Jeffrey Ko, *Associate Clinical Professor*.

George K. Lee, *Associate Clinical Professor.*

Andrew B. Mick, *Associate Clinical Professor*.

Glen Ozawa, *Associate Clinical Professor*.

Meredith Whiteside, *Associate Clinical Professor*.

Diane H. Williams, *Associate Clinical Professor*.

Barry C. Winston, *Associate Clinical Professor*.

Vikki Yu, *Associate Clinical Professor*.

Assistant Clinical Professors

Yin Yin Aung, *Assistant Clinical Professor.*

Karen Chester, *Assistant Clinical Professor*.

Marlena A. Chu, *Assistant Clinical Professor*.

Jorge Anthony Cuadros , *Assistant Clinical Professor*.

Sarah N G Fisher, *Assistant Clinical Professor*.

Dennis W. Fong, *Assistant Clinical Professor*.

Sara L. Frane, *Assistant Clinical Professor*.

Cheslyn M. Gan, *Assistant Clinical Professor*.

Kenneth S. Gee, *Assistant Clinical Professor*.

Harry Green, *Assistant Clinical Professor*.

Daniel Harvitt, *Assistant Clinical Professor*.

Michelle J. Hoff, *Assistant Clinical Professor*.

Cheyenne Chinea Huber, *Assistant Clinical Professor.*

Kuniyoshi Kanai, *Assistant Clinical Professor*.

Isabel Kazemi, *Assistant Clinical Professor.*

Nicholas G. Kerry, *Assistant Clinical Professor*.

Cindy Yumi Sakai Kim, *Assistant Clinical Professor*.

Jennine Kirby, *Assistant Clinical Professor.*

Linh Le, *Assistant Clinical Professor.*

Debora Lee, *Assistant Clinical Professor*.

Taras Litvin, *Assistant Clinical Professor*.

Kenneth N. Lowe, *Assistant Clinical Professor.*

Melanie Louise Mason, *Assistant Clinical Professor.*

Allison McClellan, *Assistant Clinical Professor*.

Anousheh Mortazavi, *Assistant Clinical Professor*.

Matthew Alan Rhodes, *Assistant Clinical Professor*.

Vicki Rich, *Assistant Clinical Professor.*

Thomas R. Rowley, *Assistant Clinical Professor*.

Claudia Cynthia Ruegg, *Assistant Clinical Professor.*

George Russell, *Assistant Clinical Professor.*

Jon M. Sakuda, *Assistant Clinical Professor.*

Nadia Sarah Samii, *Assistant Clinical Professor*.

Pam Satjawatcharaphong, *Assistant Clinical Professor*.

Jeffrey Joseph Schultz, *Assistant Clinical Professor*.

Jennifer Y. Seino, *Assistant Clinical Professor*.

Todd D. Severin, *Assistant Clinical Professor*.

Mary Ann C. Shui, *Assistant Clinical Professor*.

Jeremy Ross Shumaker, *Assistant Clinical Professor*.

Kelvin Tang, *Assistant Clinical Professor*.

Kathy Tran, *Assistant Clinical Professor*.

Christina Trifiletti, *Assistant Clinical Professor*.

Tan Truong, *Assistant Clinical Professor*.

Lee Q. Vien, *Assistant Clinical Professor.*

Caitlin E. Walsh, *Assistant Clinical Professor.*

Lillian Ing-Ling Wang, *Assistant Clinical Professor*.

Tonya Watson, *Assistant Clinical Professor*.

Brian Wolff, *Assistant Clinical Professor*.

Walter Andrew Wong, *Assistant Clinical Professor*.

Yu-Tai Wu, *Assistant Clinical Professor*.

Kerri Kimi Yoshiyama, *Assistant Clinical Professor*.

Clinical Instructors

Kristin E. Brennan, *Clinical Instructor.*

Amara V. Callahan, *Clinical Instructor*.

Alvaro Castillo, *Clinical Instructor*.

Patrick J. Clark, *Clinical Instructor.*

Ashley Craven, *Clinical Instructor*.

Neda Ghanbari, *Clinical Instructor*.

Geeta Girdher, *Clinical Instructor.*

David Hicks, *Clinical Instructor*.

Jeffrey Hiett, *Clinical Instructor.*

Heather Jones, *Clinical Instructor*.

Stephanie Joo, *Clinical Instructor*.

Chang Kim, *Clinical Instructor*.

Deana E. Lum, *Clinical Instructor.*

Patty Lynch, *Clinical Instructor.*

Shreya Mali, *Clinical Instructor*.

Mario Moreno, *Clinical Instructor.*

Mary Ann Murphy, *Clinical Instructor.*

Charlie Ngo, *Clinical Instructor*.

Marisa A. Perez, *Clinical Instructor*.

Marla F. Plecha, *Clinical Instructor.*

Aaron Severson, *Clinical Instructor*.

Mark Sherstinsky, *Clinical Instructor*.

Leslie Small, *Clinical Instructor.*

Susanna M. Tamkins, *Clinical Instructor.*

Anne Yun Keu Tasaki, *Clinical Instructor*.

Jacqueline Marie Theis, *Clinical Instructor*.

Jonathan C. Thomas, *Clinical Instructor.*

Kevin Tomita, *Clinical Instructor.*

Melissa A. Valdellon, *Clinical Instructor*.

Yen-Linh Thi Vu, *Clinical Instructor*.

Jeremy Walz, *Clinical Instructor*.

Rob Widerspan, *Clinical Instructor.*

Professors Emeriti

Anthony J. Adams, *Professor Emeritus*.

Ian L. Bailey, *Professor Emeritus*.

Jay M. Enoch, *Professor Emeritus*.

Ralph D. Freeman, *Professor Emeritus*.

Robert B. Mandell, *Professor Emeritus*.

Kenneth A. Polse, *Professor Emeritus*.

Clifton M. Schor, *Professor Emeritus*.

Clinical Professors Emeriti

Michael G. Harris, *Clinical Professor Emeritus*.

Karen L. Walker-Brandreth, *Clinical Professor Emeritus*.

Gerald Westheimer, *Clinical Professor Emeritus*.