

College of Optometry

General Information

The UMSL College of Optometry enrolled its first class in 1980, graduating 32 students in May 1984. The College is located on the South Campus complex of the University of Missouri-St Louis at One University Blvd. A five-story building houses the College's classrooms, laboratories, research facilities, and administrative offices. The Patient Care Center (the Center for Eye Care campus facility), located on the South Campus, is open to the public, as well as to the faculty, staff, and students at the University. The Center serves to provide patients with the highest quality eye and vision care. The second floor of the Patient Care Center also houses laboratories, classrooms, and study spaces.

The College of Optometry is a member of the Association of Schools and Colleges of Optometry (ASCO) and is accredited by the Accreditation Council on Optometric Education (ACOE).

The Doctor of Optometry (O.D.) Degree

A student who satisfactorily completes all four years of the professional curriculum will be eligible to receive the Doctor of Optometry degree. The training and clinical experience optometry students receive at UMSL qualifies graduates to practice optometry in any state in the nation.

Program Curricular Outcomes

With Entry Level Practice Standards

The faculty has approved the following optometric Entry-level Standards:

Doctors of Optometry must have an established knowledge of the basic and clinical sciences in order to provide quality eye and vision care to their patients. The academic foundation must be broad and include the biological, medical, vision and optical sciences, as well as a basic understanding of the health care delivery system. Doctors of Optometry must recognize the dynamic nature of knowledge and possess the commitment and skills needed to responsibly assess and apply new information and treatment strategies throughout their career.

Upon completion of the program, graduates will be able to:

I. Identify, record, and analyze pertinent history and problems presented by the patient (PATIENT HISTORY).

1. the basic elements of a comprehensive patient history
2. the ability to obtain an efficient patient history necessary for a problem oriented examination
3. the proper standard of recording patient history in EHR
4. the ability to relate patient history to examination findings

II. Use evidence-based practices to examine and evaluate the patient, arrive at an appropriate diagnosis, and formulate a rational treatment and management plan (OPTOMETRIC KNOWLEDGE).

5. basic body systems, with special emphasis on the ocular and visual system and their interrelationships to the body as a whole;
6. the impact of genes and their interaction with behavior, diet and the environment on human health;
7. the various processes and causes that lead to dysfunction and disease and the effect that these processes can have on the body and its major organ systems, with special emphasis on the ocular and visual systems;

8. the mechanisms of actions of the various classes of pharmaceutical agents, including injectable agents, and their interactions;
9. the structures and processes contributing to the development of refractive error and other optical or perceptual abnormalities of the visual system;
10. the optics of the eye and ophthalmic lens systems - including spectacles, contact lenses, and low vision devices;
11. principles of the effects of radiant energy on the eye, including environmental lighting and ophthalmic lasers

III. Provide patient care which includes detection, diagnosis, treatment and management for each unique patient encounter (PATIENT CARE).

12. ophthalmic lens systems used to correct refractive, oculomotor and other vision disorders;
13. visual development and vision function with respect to deviation and enhancement of conditions such as, but not limited to, strabismus, amblyopia, ocular motility, accommodation, vergence and visual perception;
14. vision therapy and other rehabilitative methods used for the management of common visual disorders;
15. the detection, diagnosis, treatment and management of ocular disease and ocular manifestations of systemic disease;
16. the safe and effective use of pharmaceutical agents for the treatment of disease and conditions affecting the eye and visual system, and recognize adverse reactions;
17. the strategies, interventions, and support system to best meet the unique needs of each patient regardless of age, taking into account co-existing medical conditions, medications, dietary needs, family issues, and social concerns
18. the utilization of injectable agents for the management of ocular and systemic diseases
19. the concepts of refractive surgery and its management;
20. basic life support skills for prevention and response to life-threatening emergencies;
21. the use of ophthalmic lasers in the management of refractive error and other anomalies of the eye;
22. the use of evidence from well designed and conducted research in healthcare decision-making

IV. Perform necessary examination techniques competently and efficiently and have capacity to adapt the administration of clinical tests to meet the needs of the patient. with an obligation to maintain clinical skills through practice and repetition (CLINICAL SKILLS).

23. the importance of performing necessary examination techniques competently and efficiently
24. the capacity to adapt the administration of clinical tests to meet the needs of the patient
25. the obligation to maintain clinical skills through practice and repetition

V. Demonstrate proper documentation in the electronic health record, including proper use of abbreviations and appropriate notation of clinical observations (RECORD KEEPING).

26. the significance of proper documentation in the electronic health record
27. the proper use of abbreviations
28. the appropriate notation of clinical observations

VI. Provide relevant patient education and counseling, including culturally sensitive communications, both oral and written,

with other professionals and patients (INTERPERSONAL AND COMMUNICATION SKILLS).

- 29. the critical elements of verbal and written communications with patients and other health care professionals;
- 30. the psychosocial dynamics of the doctor/patient relationship;
- 31. the need for clear, accurate and appropriate documentation of patient encounters;
- 32. the manner in which people of diverse cultures and belief systems perceive human health and illness and respond to various symptoms, diseases and treatments;

VII. Apply knowledge of interprofessional collaborative care, ethics, medico-legal aspects, and culturally sensitive communication in the delivery of optometric care (INTRA/INTER PROFESSIONAL CONSULTATION/PRACTICE).

- 33. when there is a requirement for intra/inter professional consultation
- 34. the process of coordination among professionals involved in a patient's care

VIII. Articulate the need for a commitment to uphold the ethical obligations of the Optometric Oath including provisions to guarantee patient privacy, medical record security, and inter-professional values (PROFESSIONALISM).

- 35. the need for a commitment to uphold the ethical obligations of the Optometric Oath;
- 36. the specific duties and responsibilities toward the individuals they serve and toward society as a whole;
- 37. the provisions to guarantee patient privacy and medical record security as expressed by HIPAA regulations;
- 38. inter-professional values, related ethics and relationships among the professions;

IX. Describe the practice management, broad-based, multidisciplinary nature of the health care delivery system and the role of the optometrist as a primary health care provider (SYSTEMS-BASED PRACTICE).

- 39. the practice management structure and strategies as they pertain to different practice settings;
- 40. the broad-based, multidisciplinary nature of the health care delivery system;
- 41. the role of the optometrist as a primary health care provider;

X. Describe current best practices in patient care decision making, a commitment to lifelong learning and knowledge of information management system and technology used in the delivery of eye and health care (PRACTICE-BASED LEARNING).

- 42. the conscientious use of current best practices in patient care decision making;
- 43. the necessity for a commitment to lifelong learning;
- 44. the information management systems and technology used in the delivery of eye and health care.

2001 College of Optometry; Revised 2001, 2010, 2011, 2012, 2015, 2016 and 2024

Admission Requirements and Application Procedures

Admission requirements, application procedures, and all related information is located on the College of Optometry website located under "Optometry Admissions." If you are interested in the program, please visit the website to review the requirements and procedures.

Academic Program

The curriculum leading to the Doctor of Optometry degree is a four-year, full-time program of study. The first year of the professional program emphasizes optical principles, the biomedical sciences and an introduction to the optics of the visual system. The second year pertains to vision science and instruction in clinical examination techniques. The third year emphasizes patient care and introduces the student to specialty areas within optometry, such as ocular disease treatment and management, contact lenses, pediatrics and geriatric vision care, binocular vision and vision therapy, and low vision rehabilitation. The second and third years also include course work and clinical instruction in ocular disease and pharmacology. The fourth year requires the completion of rotations in the following areas: institutional, ocular disease, community service, University Eye Center, specialty, and elective. Successful completion of professional years one through four with a degree audit will allow professional students to be granted a Doctor of Optometry degree.

To view the Four-Year Professional Degree (O.D.) Curriculum, select the "Program A-Z" index tab located on the left side of the screen. From the list, choose "Optometry OD." The curriculum includes an outline of the entire four-year academic program required to receive the O.D. degree.

For Course Descriptions, select the Courses tab at the top of this page.

Licensure and Certification

As of June 1, 2025, it has been determined that the following programs meet educational requirements for Optometrist licensure in all U.S. states, Washington D.C. and U.S. territories.

- Doctor of Optometry

Students who live outside the state of Missouri and are considering enrolling in any program that leads to a professional licensure, are strongly encouraged to inquire with the applicable licensing board to determine the most up-to-date information regarding state licensure requirements prior to enrolling in any academic program. UMSL updates state licensure requirements annually; however, state laws, regulations, and policies may change at any time, which can impact the program's ability to meet educational requirements for licensure or certification. For the most up to date information about Licensure and Certification requirements, please visit the State Approvals website.

Under federal regulations, we may not enroll into licensure or certification program students located in a state or territory in which our program does not meet the educational requirements to be eligible for licensure or which the University has not made a determination. However, if you plan to seek licensure and employment in any of the following states or territories listed below, you may enroll in the program after signing an attestation indicating your plans to become licensed and employed in a state that meets requirements.

If you plan to seek licensure in one of the states listed above, please contact the College of Optometry at 314-516-5506 for more information.

Courses

OPTOM 8010 Anatomy, Physiology and Disease Processes I: 5 semester hours

This course is the first in a two-semester course sequence that will detail the general anatomy of the human body along with the histology (microanatomy), physiology and disease processes of major organ systems. The course content will be presented in a modular format. Areas of discussion will include cardiovascular, respiratory, endocrine, digestive, reproductive, integumentary and peripheral and autonomic nervous systems. The laboratories will emphasize and augment important concepts introduced in the classroom environment.

OPTOM 8020 Basic and Clinical Optics I: 4 semester hours

Prerequisites: Consent of instructor. The principles of geometrical optics as applied to refracting and reflecting surfaces, thin lenses, thick lenses, and lens systems. The optics of various ophthalmic instruments and techniques will be examined.

OPTOM 8030 Introduction to Optometry: 1 semester hour

An introduction to the profession of optometry, including a consideration of the characteristics of a profession, the behaviors and attitudes of a professional, the history of optometry, the profession's legal basis, the major optometric organizations and sources and types of information available to optometrists. One hour of lecture per week.

OPTOM 8040 Neuroanatomy: 4 semester hours

Prerequisites: Consent of instructor. Detailed gross and microscopic anatomy of human central nervous system with a special emphasis on the cranial nerves, nuclei, and the visual system.

OPTOM 8050 Basic and Applied Immunology: 2 semester hours

This course will address the basic concepts of immunology including innate and adaptive immune responses. Mechanisms of hypersensitivity reactions and applications of immunology to ocular and systemic disease, transplantation, and treatment or prevention of cancer are included. Students must be concurrently enrolled in OPTOM 8010.

OPTOM 8060 Biochemistry: 2 semester hours

Basic concepts of general and cellular biochemistry. Study of nomenclature, structure, and reactions of organic molecules. Some emphasis on visual system - tears, intraocular fluids, lens, and photochemistry.

OPTOM 8080 Clinical Optometry I: 2 semester hours

Introduction to ocular assessment including case history and entrance examination procedures and theory.

OPTOM 8090 Case Based Discovery for the Developing Clinician: 1 semester hour

Students acquire curricular competencies appropriate for the professional year in which they are enrolled via in depth individual and group discovery via case based presentations. The experience will provide students the opportunity to assimilate and recognize the relationships among diverse topics emphasized within the optometric curriculum. Participants work in groups of no more than 10.

OPTOM 8110 Anatomy, Physiology and Disease Processes II: 4 semester hours

Prerequisites: OPTOM 8010, OPTOM 8060. Continuation of OPTOM 8010 Anatomy, Physiology and Disease Processes I.

OPTOM 8120 Basic and Clinical Optics II: 5 semester hours

Prerequisite: OPTOM 8020. Radiometry and photometry, polarization, scattering, emmetropia, myopia, hyperopia, astigmatism, models of experimental myopia, accommodation, diffraction, retinal image size, entoptic phenomena, aberrations, lasers and the eye, apertures, and optical instruments.

OPTOM 8160 Anatomy and Physiology of the Eye: 5 semester hours

Prerequisites: OPTOM 8040, OPTOM 8010 or consent of instructor. Vegetative anatomy and physiology of the eye, optic nerve, orbit, and adnexa will be discussed. This includes discussion of embryology and the dynamics of ocular fluids. Four lecture hours and a two-hour laboratory per week.

OPTOM 8180 Clinical Optometry II: 5 semester hours

Prerequisites: OPTOM 8080. Continuation of Clinical Optometry I. Patient care instruction including entrance examination procedures, refraction, ophthalmoscopy and biomicroscopy.

OPTOM 8190 Introduction to Clinical Diagnostic Reasoning: 1 semester hour

Prerequisite: OPTOM 8090. Introduction to clinical diagnostic reasoning by individual and group case-based learning. Scenarios give students an understanding of the relationship between basic and clinical sciences and provide an introduction to established best practices.

OPTOM 8220 Ophthalmic Optics: 4 semester hours

Prerequisites: OPTOM 8120. Ophthalmic materials, physical characteristics of lenses and frames, paraxial optics of ophthalmic lenses, ophthalmic prisms, lens specifications, special lenses, multifocal lenses, unique designs, aniseikonic lenses, aberration theory and its application to lens design, lenses for low vision, protective eyewear.

OPTOM 8230 Interpersonal Communications: 1 semester hour

Prerequisites: OPTOM 8030. This course covers the principles of human interpersonal relationships. The enhancement of listening and verbal skills will be provided. Emphasis will be on preparing the student to understand and manage the many human interpersonal relationships necessary in the practice of optometry.

OPTOM 8240 Ocular Motility: 2 semester hours

Prerequisites: OPTOM 8040 or consent of instructor. The anatomy, physiology, neurology, measurement, characteristic, and control of the intra- and extraocular system.

OPTOM 8250 Monocular Sensory Processes: 4 semester hours

Prerequisite: OPTOM 8160 or consent of instructor. Monocular sensory processes of vision: phototransduction, visual neurophysiology, spatial and temporal vision, acuity, light adaptation and discrimination, color, motion, objects and attention. Sensory processes are considered from both the psychophysical aspects and neurophysiological bases, including the changes during development, adulthood and aging. Four hours of lecture and two hours of laboratory per week.

OPTOM 8260 General and Ocular Pharmacology: 4 semester hours

Prerequisites: OPTOM 8110, OPTOM 8160, OPTOM 8080, OPTOM 8180. This course establishes an understanding of both systemic and ocular pharmacology focusing on mechanisms of action, drug interactions within the body, and drug interactions with other medications. Attention is given to clinical cases relevant to optometric practice and a broad overview of general and ocular pharmacology as a whole.

OPTOM 8280 Clinical Optometry III: 4 semester hours

Prerequisites: OPTOM 8080 and OPTOM 8180. Continuation of clinical optometry. Patient care in the areas of refraction, binocular integration, perimetry, and biomicroscopy.

OPTOM 8320 Ophthalmic Dispensing: 1 semester hour

Prerequisites: OPTOM 8220. Clinical experience in verification and dispensing of ophthalmic materials.

OPTOM 8340 Binocular Vision and Space Perception: 4 semester hours

Prerequisites: OPTOM 8240, OPTOM 8280 and OPTOM 8250 or consent of instructor. Binocular vision and space perception. Visual direction, theory of correspondence, fusion, rivalry, ocular dominance, and stereopsis. Developmental aspects and neurophysiological mechanisms.

OPTOM 8370 Foundations of Ocular and Systemic Disease and Management I: 5 semester hours

Prerequisite: OPTOM 8260. The first in the series of courses that address diseases of the eye, clinical diagnoses, and optometric and medical management of ocular and systemic disease. The laboratories emphasize diagnostic techniques and treatment skills, preparation for the initial clinic privileging examination and augment important concepts introduced in the classroom environment.

OPTOM 8380 Clinical Optometry IV: 2 semester hours

Prerequisites: OPTOM 8280. Continuation of Clinical Optometry III. Diagnosis, prognosis and management of visual problems. Emphasis on conducting comprehensive eye exams in preparation for the initial clinical privileging examination.

OPTOM 8390 Specialty Clinic Laboratory: 1 semester hour

Prerequisite: OPTOM 8280. Students acquire and practice skills for pediatric, binocular vision, low vision, and contact lens examinations. The course format is one 2-hour laboratory per week.

OPTOM 8391 Clinical Topics in Contact Lenses: 1 semester hour

Prerequisite: OPTOM 8280. This is the first in a series of 3 courses addressing contact lenses. The focus is on contact lens care and evaluation. The course format is one 50-minute lecture per week.

OPTOM 8392 Clinical Topics in Binocular Vision and Pediatric Optometry: 1 semester hour

Prerequisite: OPTOM 8240 and OPTOM 8280. This course presents clinical diagnostic and management skills for both pediatric patients and those with binocular vision anomalies. The course format is lecture.

OPTOM 8393 Clinical Topics in Low Vision: 1 semester hour

Prerequisite: OPTOM 8280. This course presents clinical diagnostic and management skills for patients with low vision. The course format is one 50-minute lecture per week.

OPTOM 8400 Directed Readings: 1-3 semester hours

Prerequisite: Consent of Instructor. Credit is given for independent literature review of a specific topic in any area of basic or clinical vision science guided by a full time faculty member with appropriate interests. Credit is awarded upon approval of a written paper regarding the selected topic. This elective may be repeated up to a total of 3 credit hours.

OPTOM 8410 Directed Research: 1-3 semester hours

Prerequisite: Consent of Instructor. Credit is given for independent research. Projects may be laboratory, library, or clinically based research in any area of vision science. Projects will be supervised by one or more full time faculty members. This elective may be repeated up to a total of 6 credit hours.

OPTOM 8450 Introduction to Primary Care Clinic: 4 semester hours

Prerequisites: OPTOM 8230, OPTOM 8320, OPTOM 8340, OPTOM 8370, OPTOM 8380, OPTOM 8390, OPTOM 8391, OPTOM 8392, OPTOM 8393, OPTOM 8560, and successful completion of the Clinical Proficiency Examination. The first in a series of adult primary care courses. Students perform comprehensive examinations, make diagnoses, and develop management plans with patient education under supervision of a faculty attending. Students participate in accompanying clinic seminar discussion groups.

OPTOM 8460 Foundations of Ocular and Systemic Disease and Management III: 3 semester hours

Prerequisites: OPTOM 8370. The third course in the foundation series that addresses ocular and systemic diseases and their management. The laboratories will emphasize and augment important concepts introduced in the classroom environment.

OPTOM 8480 Pharmaceutical Management in Patient Care: 2 semester hours

Prerequisites: OPTOM 8260; OPTOM 8370; OPTOM 8460. This course will discuss the clinician's responsibility in the treatment and management of ocular conditions and systemic complications of pharmaceutical use. Principles of ocular pharmacology in regards to specific management and treatment of ocular disease, trauma, and surgery by systemic, local, and topical therapy. In addition, simulated case studies are used to illustrate the basic and subtle clinical aspects of treating patients using pharmaceutical agents.

OPTOM 8500 Primary Care Clinic I: 6 semester hours

Prerequisites: OPTOM 8450. Continuation of Introduction to Primary Care Clinic. Weekly clinic seminar will supplement clinical experience with discussion of medical billing and coding, pharmacology, and patient case discussion and review.

OPTOM 8520 Contact Lenses I: 3 semester hours

Prerequisites: OPTOM 8380 and OPTOM 8391. Historical development of the contact lens and its use. Basic lens terminology, specifications, physiochemical characteristics, optics, fabrication, and verification. Preliminary patient evaluation, indications and contraindications for contact lenses. Basic fitting philosophies for all lens types. Lens care and patient education. Patient and practice management considerations.

OPTOM 8540 Diagnosis and Management of Binocular Vision Anomalies: 4 semester hours

Prerequisites: OPTOM 8340, OPTOM 8380 and OPTOM 8392 or consent of instructor. The etiology, epidemiology, symptoms, signs, and course sequelae of the obstacles to binocular vision-sensory, integrative, and motor. The detection, diagnosis, prognosis, and orthoptic treatment of such anomalies. Clinical care of aniseikonias.

OPTOM 8550 Low Vision: 2 semester hours

Prerequisite: OPTOM 8380 and OPTOM 8393. The etiology, epidemiology, symptoms, signs, course, and sequelae of low vision problems. Methods of testing, prognosis, selection of therapy, design of environmental and optical aids, problems of rehabilitation. Agencies, laws, public and social assistance for the partially sighted and blind. The course format is lecture and 1 two-hour laboratory per week.

OPTOM 8560 Epidemiology and Public Health: 3 semester hours

The essentials of epidemiological study procedures and a discussion of the epidemiology of vision disorders are discussed. The course reviews descriptive statistics, probability sampling, correlation, and prediction. The public health component includes a review of local, state, and federal organizations involved in health care, comprehensive health planning, new trends in health care delivery, and the assessment of the quality of health care delivery.

OPTOM 8570 Advanced Topics in Ocular and Systemic Disease and Management: 5 semester hours

Prerequisites: OPTOM 8370. The third semester of a comprehensive, systems based course sequence. Advanced topics in diagnoses as well as optometric and medical management of ocular and systemic disease will be discussed.

OPTOM 8600 Primary Care Clinic II: 6 semester hours

Prerequisites: OPTOM 8500, OPTOM 8520, OPTOM 8540, OPTOM 8550, OPTOM 8570, and OPTOM 8650. The final course in the adult primary care sequence. Students examine and care for patients under supervision of a faculty attending. Students are expected to function nearly independently in final preparation for the Externship Program.

OPTOM 8615 Combined Clinical Applications: 1 semester hour

The course focuses on a review of important basic science concepts presented during the first two and one half years of the program curriculum. Technology will be used to gauge student knowledge and adjust topics of curricular review. This course is given during the first half of the semester for two hours each week.

OPTOM 8620 Contact Lenses II: 2 semester hours

Prerequisites: OPTOM 8520. Advanced contact lens fitting, theories, and clinical methods for astigmatic, presbyopic, keratoconic, and aphakic designs. Special considerations include the use of corneal topography, orthokeratology, disposable lenses, lenses for extended wear, and lenses for color deficiencies. The course format is one lecture per week.

OPTOM 8630 Practice Management I: 3 semester hours

Prerequisites: OPTOM 8030 and OPTOM 8230. The development and management of an optometric practice from a patient and community service point of view - office design, office routine, patient care administration, personnel management, recall systems and the establishment, development and management of an optometric practice from a business point of view - legal developments, governmental regulations, legislation and the legislative process, malpractice, professional ethics, taxes, fee structures, insurance and accounting methods.

OPTOM 8640 Pediatric Optometry and Visual Perception: 2 semester hours

Prerequisites: OPTOM 8380 and OPTOM 8540. Special examination and management considerations of the pediatric patient. Psychological, physiological, social, and demographic aspects of early visual development. Discussion of the optometric considerations of children with learning and reading disabilities. The course format is two lecture/discussions per week.

OPTOM 8645 Neurologic Disorders of the Eye and Visual System: 2 semester hours

Prerequisites: OPTOM 8570. Diagnosis, management and treatment of selected neurologic disorders of the eye and visual system. Emphasis is on diagnostic imaging of the visual system, diagnosis of central and peripheral disorders of eye movements, space occupying lesions, acquired brain injury, and optic nerve disease.

OPTOM 8650 Geriatric Optometry: 2 semester hours

Prerequisite: OPTOM 8380. Special examination and management considerations of the geriatric patient will be discussed. Psychological, physiological, social, and demographic aspects of aging, as well as ocular changes associated with the aging process will be taught.

OPTOM 8660 Contact Lens Specialty Clinic: 1 semester hour

Prerequisites: OPTOM 8391. The clinical examination and care of patients in the optometric specialty area of contact lenses.

OPTOM 8670 Comprehensive Case Review and analysis: 1 semester hour

Prerequisites: Enrollment in OPTOM 8500 or OPTOM 8600. Discussion of the diagnosis and management of common clinic patient encounters via Socratic teaching techniques. Interns are encouraged to present actual cases which have been particularly challenging for them. The course format is a weekly seminar.

OPTOM 8680 Ophthalmic Lasers and Advanced Procedures: 2 semester hours

Prerequisites: OPTOM 8570. This course will review the principles and applications of lasers for the anterior segment. Topics will include the principles, physics, laser tissue interactions and safety concerns for ophthalmic lasers. The indications, contraindications and potential complications of lasers used for open angle glaucoma, closed angle glaucoma and posterior capsulotomy will be reviewed. In addition, the course will review epiluminescence microscopy, minor surgical procedures, suture techniques, office emergencies including anaphylaxis, chalazion management and radiofrequency surgery. An overview of the anatomy of eyelids, post-operative wound care, complications of surgical procedures, surgical instruments, asepsis and OSHA will be provided. The medicolegal aspects of anterior segment procedures will be discussed. Co-Management of patients who have corneal refractive surgery will also be covered.

OPTOM 8690 Pediatric/Binocular Vision Specialty Clinic: 1 semester hour

Prerequisites: OPTOM 8392. The clinical examination and care of patients in the optometric specialty areas of binocular vision and pediatric vision.

OPTOM 8700 UM-St. Louis Pediatric/Binocular Vision Patient Care: 3 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of patients in pediatric/binocular vision clinic at the University of Missouri-St. Louis Center for Eyecare. This course fulfills one of the clinic courses required for graduation. This course must be taken in conjunction with OPTOM 8710 and OPTOM 8720.

OPTOM 8710 UM-St. Louis Contact Lens Patient Care: 3 semester hours

Prerequisites: Successful completion of all first, second and third year coursework required Comprehensive clinical care in the contact lens clinic at the University of Missouri-St. Louis Center for Eyecare. This course fulfills one of the clinic courses required for graduation. This course must be taken in conjunction with OPTOM 8700 and OPTOM 8720.

OPTOM 8720 UMSL Eye Health Management Patient Care: 1 semester hour

Prerequisites: Successful completion of all first, second, and third year course work. Comprehensive clinical care in the eye health management clinic with ophthalmologists at the University of Missouri-St. Louis University Eye Center. This course fulfills one of the clinic courses required for graduation. This course must be taken in conjunction with OPTOM 8700 and OPTOM 8710.

OPTOM 8770 External Rotation in Clinical Care III: 7 semester hours

Prerequisites: Successful completion of all first, second, and third year coursework. One of three external rotations that includes comprehensive clinical care of patients. The clinical care can occur at St. Louis area community health centers, affiliated University clinics, private optometry practices, or MD/OD practices. Patient encounters will be reflective of the clinical location and will include primary care optometry for all patient ages and demographics. This course fulfills one of the clinic courses required for graduation.

OPTOM 8780 External Rotation at VA or Hospital Based: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of primary care patients at external sites approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8790 External Rotation in Ocular Disease Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of patients with ocular disease at external sites approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8810 External Rotation in Contact Lens Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of contact lens patients at an external site approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8812 External Rotation in Geriatric Patient Care: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care of Geriatric Patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8813 External Rotation in Ophthalmic Sports Vision: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care of Sports Vision Patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8814 External Rotation in Clinical Care I: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. One of three external rotations that includes comprehensive clinical care of patients. The clinical care can occur at St. Louis area community health centers, affiliated University clinics, private optometry practices, or MD/OD practices. Patient encounters will be reflective of the clinical location and will include primary care optometry for all patient ages and demographics. This course fulfills one of the clinic courses required for graduation.

OPTOM 8817 External Rotation in Rehabilitative Patient Care: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care in Rehabilitative Patient Care at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8830 External Rotation in Clinical Care II: 7 semester hours

Prerequisites: Successful completion of all first, second, and third year coursework. One of three external rotations that includes comprehensive clinical care of patients. The clinical care can occur at St. Louis area community health centers, affiliated University clinics, private optometry practices, or MD/OD practices. Patient encounters will be reflective of the clinical location and will include primary care optometry for all patient ages and demographics. This course fulfills one of the clinic courses required for graduation.

OPTOM 8870 Practice Management II: 2 semester hours

Prerequisites: Successful completion of all first-, second- and third-year coursework. Further in-depth discussion in practice management.

OPTOM 8880 Practice Management III: 1 semester hour

Prerequisites: Successful completion of all first-, second- and third-year coursework. Presentation and discussion of interesting clinical patients. Additional clinical testing techniques and concepts. Further discussion of patient data analysis-the process of determining diagnosis, prognosis, and therapy. Further discussions in the optometric specialties.