The University of Missouri-St. Louis College of Optometry Bulletin is created and printed within the University of Missouri System. All statements in this publication are subject to change without notice; they are not to be regarded as offers of contract.

The policies of the University of Missouri-St. Louis College of Optometry comply with the provisions under those laws which forbid discrimination on the basis of race, color, sex, national origin, religion, age, handicap, or status as a Vietnam era veteran. Inquiries regarding compliance with these regulations may be directed to the University of Missouri-St. Louis Office of Affirmative Action, St. Louis, Missouri, 63121-4400, (314) 516-5695.

University of Missouri-St. Louis
College of Optometry
Office of the Dean
One University Boulevard
St. Louis, MO 63121-4400

UM-St. Louis home page: http://www.umsl.edu
College of Optometry home page: http://optometry.umsl.edu
Student Services Admissions: http://optometry.umsl.edu/students/prospstudpag.html
Center for Eye Care home page: http://optometry.umsl.edu/clinics/cecpage.html
Admissions (314) 516-6263 http://optometry.umsl.edu/programs/2005%20Admissions/applying.html
1-888-EYE-UMSL
Assistant Dean for Clinical Programs (314) 516-6509
Career Placement (314) 516-6030
Cashier's Office (314) 516-5151
Continuing Education (314) 516-5615
Dean (314) 516-5606
Externship Program (314) 516-5603
Financial Aid (314) 516-6394/6395
Graduate Programs (314) 516-6263
Minority Affairs (314) 516-5803
Optometry Work Study (314) 516-6030
Pre-Optometry Academic Advisory (314) 516-6030
Residency Programs (314) 516-6532
Scholarships, Grants, Awards (314) 516-6030
Student Services (314) 516-6263
University Eye Center (314) 516-5131
Veteran Affairs (314) 516-5679
Our Vision

Advancing the Science and Practice of Optometry

Our Mission

The mission of the College of Optometry is to promote and provide improved eye and health care for people throughout the country by preparing the next generation of optometrists and vision researchers. To accomplish our mission the faculty, staff and students will pursue excellence within our professional, graduate, residency and patient care programs.

Our Values

Optometrists, as essential primary eye care providers within an effective health care delivery system, frequently serve as leaders within the community. It is our commitment to demonstrate and instill an appreciation for the following values as we prepare our graduates to fulfill that role with distinction.

Growth—We are committed to creating evidence-based quality educational experiences and engendering a passion for lifelong learning within our students, staff, faculty, and alumni. Individual and collective discipline and perseverance are required for growth. Growth is an essential component of our commitment to make a positive impact upon the community that we serve.

Responsibility—We are committed to the pursuit of excellence, charity and compassion toward others, and to improved quality of life for those who live and work within our community. The fulfillment of that obligation is enabled by dedication to personal and academic integrity.

Discover—We are committed to the development and utilization of innovative approaches to maximize learning and improve patient care through research, scholarship and teaching. The pursuit and dissemination of new knowledge fulfills our responsibility to enhance the delivery of eye care and the quality of life for our fellow citizens.

Community—We are committed to supportive and productive relationships within our college, campus, professional and surrounding communities. We have an appreciation for the dignity of others and respect for the diversity that exists within our community. Teamwork and collaboration are essential as we strive to enrich the lives of our fellow citizens.
# Table of Contents

## Vision, Mission and Values Statement
- Page 3

## Optometric Oath
- Page 7

## Optometry: The Profession
- Page 8

## Introduction to UM-St. Louis
- Page 9
  - UM-St. Louis Mission Statement... 9
  - The University: Academic Structure..... 9
  - The University: Student Life.......... 11
  - The University: It's Graduates......... 11
  - The University: Accreditation........ 11

## College of Optometry
- Page 12
  - History.................................. 12
  - Educational Philosophy................. 12
  - Goals.................................... 13
  - Facilities................................ 13
  - University Eye Center................ 13
  - Libraries................................ 13
  - Accreditation......................... 13
  - Our Graduates......................... 14

## Patient Care
- Page 15
  - Center for Eye Care.................... 15
  - Third Year Patient Care Service...... 15
  - Pediatric/Binocular Vision Service... 15
  - Pupil Project........................... 15
  - Contact Lens Service.................. 15
  - Low Vision Service..................... 15
  - Eye Health Management Service...... 16
  - Dispensary Service..................... 16
  - Fourth Year Externship Program...... 16
  - Research................................ 16

## Faculty
- Page 17

## Curricular Outcomes
- Page 22

## Curriculum
- Page 23
  - Academic Program....................... 23
  - Four-Year Professional Degree (O.D.) Curriculum...................... 23
  - Elective Courses in the College of Optometry......................... 24
  - Graduate Vision Science Courses Approved for Elective Credit..... 24
  - Course Descriptions................... 25

## Admission, Application, Selection, Acceptance
- Page 30
  - Admission Requirements................ 30
  - Admission Test........................ 30
  - Application Procedures................ 30
  - Application Deadlines.................. 31
  - International Students............... 31
  - Selection Procedures................... 31
  - Admission Process...................... 32
  - Immunization........................... 32
  - Residency................................ 32

## Fees & Estimated Cost of Education
- Page 34
  - Education Fees........................ 34
  - Late Registration Fee.................. 34
  - Personal Checks........................ 34
  - Delinquent Indebtedness................. 34
  - State Reciprocal Agreement........... 34
  - Nebraska Contract Agreement.......... 35
  - Estimated Cost of Education.......... 35

## Financial Aid
- Page 36
  - Eligibility for Financial Aid........ 36
  - Application Process.................... 36
  - Federal Work-Study (WFS).............. 36
  - Veterans Benefits..................... 37
  - Financial Aid Appeal................... 37

## Loans
- Page 37
  - Perkins Loan.......................... 37
  - Health Professions Student Loan (HPSL)........................... 37
  - Direct PLUS Loans for Graduate and Professional Degree Students....... 37
  - William D. Ford Federal Direct Student Loan Program.............. 37
  - Subsidized................................ 37
  - Unsubsidized............................ 37
  - Arkansas Optometric Association Student Loan Fund.............. 37
  - Iowa Loans............................ 37
  - Ohio Loans for Ohio Students......... 37
  - Hattie M. Strong Foundation Student Loan........................ 37
  - College of Optometry Emergency Student Loan...................... 37

## Scholarships, Fellowships, and Grants
- Page 38
  - Scholarship for Disadvantaged Students (SDS)..................... 38
  - Indian Health Scholarship (IHS)................................ 38
  - Air Force Scholarship........................ 38
  - Alberta Scholarship........................ 38
  - Alumni Scholarship........................ 38
  - (A.H.) Basman, O.D. Bursary.................. 38
  - Army Scholarship........................ 38
  - Barnes St. Peters Hospital Scholarship.......................... 38
  - Bellingrath Scholarship in Optometry............................ 38
  - Beta Sigma Kappa Research Grant...................... 38
  - Brazelton Memorial Award.................. 38
  - Essilor of America Student Grant Award........................... 38
  - (Dr. Monty) Friedlow Memorial Scholarship........................ 38
  - (Helen L.) Gadell Scholarship in Optometry..................... 38
  - (Dr. Seymour) Galina Grant................ 39
  - (Mary M.) Gilbert Scholarship in Optometry................. 39
(Tole) Greenstein Memorial Papers Award.................................. 39
(Gary) Gross Scholarship........................................... 39
Hawaii Scholarship.................................................. 39
International Order of the King’s Daughters and Sons Health Careers Scholarships................................. 39
The William R. Jackson, Jr., O.D. Memorial Scholarship........ 39
The William R. Jackson, Jr., O.D. Memorial Scholarship........ 39
Kansas Optometric Foundation and the Kansas Foundation for Vision Awareness Scholarships.................. 39
Will G. Kelley Memorial Scholarship............................. 39
Dr. Robert A. Koetting Scholarship............................... 39
Merit Scholarship.................................................... 39
Merit Minority Scholarship........................................ 39
Michigan Scholarship.............................................. 39
Minnesota Scholarship............................................. 39
(Dr. Leslie) Mintz Scholarship.................................... 40
Missouri Affiliate Scholarship................................. 40
National Eye Institute Predoctoral Research Fellowship (Summer Research Program)......................... 40
Navy Scholarship................................................. 40
Nebraska Scholarship.............................................. 40
(Julius F.) Neumueller Award in Optics.......................... 40
New Jersey Scholarship......................................... 40
Optometric Extension Program Senior Student/ Recent Graduate Research Grant............................ 40
Optometric Student Scholarship................................. 40
Petry-Lomb Scholarship/Research Grant.......................... 40
(Hilda L.) Rand Scholarship..................................... 40
Rhode Island Scholarship ....................................... 40
Salierno Scholarship.............................................. 40
Saskatchewan Scholarship........................................ 40
Secretary’s Award for Innovation in Health Promotion and Disease Prevention.................................. 40
Silhouette Scholarship.......................................... 41
Skeffington/Alexander Award................................... 41
(Dr. A.M.) Skeffington Memorial Scholarship.................. 41
Student Leadership Award.................................... 41
Student Travel Fellowship.................................... 41
Travel Award...................................................... 41
Vision Service Plan Scholarship.............................. 41
Wal-Mart Scholarship......................................... 41
Washington Affiliate Scholarship............................. 41
Wisconsin Scholarship......................................... 41
Women in Optometry (WinO) Scholarship......................... 41
Wyoming Scholarship.......................................... 41

Graduation Awards.............................................. 42
Alcon Fourth Year Case Study Award............................ 42
A.M. Skeffington Memorial Scholarship Award.................... 42
Clinical Binocular Vision/Vision Therapy Award.................. 42
Clinical Excellence Award.................................... 42
Clinical Excellence Award.................................... 42
Contact Lens Clinical Award.................................. 42
Dean’s and the Dr. M. Earl McClellan Memorial Awards........ 42
Essilor Award for Excellence.................................. 42
Ophthalmic Optics............................................. 42
(William) Feinbloom Low Vision Award......................... 42
(Dr. William R.) Jackson, Jr. Memorial Award................ 42
(Charles C.) Matlock Memorial Award........................... 42
Ocular Instruments Award of Excellence........................ 42
Silver Medal Award............................................. 42
Vistakon Award of Excellence in Contact Lens Patient Care... 42

Office of Student Services...................................... 43

Student Services............................................... 44
Millennium Student Center...................................... 44
Emergency Motorist Assist...................................... 44
Emergency Phones............................................. 44
Parking.................................................................... 44
MetroLink Pass Program......................................... 44
Campus Shuttles.................................................... 44
Bookstore........................................................... 44
Information Technology Services.............................. 44
Student Computing Services..................................... 45
Child Development Center....................................... 45
Health and Fitness Facilities.................................... 45
University Health Services...................................... 45
Drug and Alcohol Prevention Program.......................... 45
Standards of Conduct................................. 46
Legal Sanctions.................................................. 46
University Discipline........................................... 46
Health Risks...................................................... 46
Resources.......................................................... 46
Smoke-Free Campus Policy...................................... 46
Housing.............................................................. 46
Placement.......................................................... 46
Upperclass Student Advisory Program............................. 47
New Student Orientation Program............................... 47
Tutorial Service.................................................... 47
Counseling.......................................................... 47
Service to Students with Disabilities.............................. 47
International Student Services................................. 47
Veteran Affairs.................................................... 47
Minority Affairs................................................... 47

Student Activities/Organizations................................ 48
Campuswide Student Government................................ 48

Student Organizations........................................... 48
American Academy of Optometry (AAO) American Optometric Association (AOA) and the Missouri Optometric Association (MOA)........ 48
American Optometric Student Association (AOSA).................. 48
American Optometric Student Association-St. Louis (AOSA-St. Louis)........................................ 48
Beta Sigma Kappa-St. Louis (BSK-St. Louis)........................ 48
Optometric Oath

With full deliberation I freely and solemnly pledge that:

I will practice the art and science of optometry faithfully and conscientiously and to the fullest scope of my competence.

I will uphold and honorably promote by example and action the highest standards, ethics and ideals of my chosen profession and the honor of the degree, Doctor of Optometry, which has been granted me.

I will provide professional care for those who seek my services, with concern, with compassion, and with due regard for their human rights and dignity.

I will place the treatment of those who seek my care above personal gain and strive to see that none shall lack for proper care.

I will hold as privileged and inviolable all information entrusted to me in confidence by my patients.

I will advise my patients fully and honestly of all which may serve to restore, maintain or enhance their vision and general health.

I will strive continuously to broaden my knowledge and skills so that my patients may benefit from all new and efficacious means to enhance the care of human vision.

I will share information cordially and unselfishly with my fellow optometrists and other professionals for the benefit of patients and the advancement of human knowledge and welfare.

I will do my utmost to serve my community, my country and humankind as a citizen as well as an optometrist.

I hereby commit myself to be steadfast in the performance of this, my solemn oath and obligation.

Adopted by the American Optometric Association and the Association of Schools and Colleges of Optometry.
Optometry: The Profession

"Optometrists are independent primary health care providers who examine, diagnose, treat and manage diseases and disorders of the visual system, the eye and associated structures as well as diagnose related systemic conditions. Optometrists prescribe and/or provide eyeglasses, contact lenses, low vision aids and vision therapy. They prescribe medications to treat eye diseases and perform certain therapeutic procedures. Optometrists also do testing to determine the patient's ability to focus and coordinate the eyes, judge depth perception, and see colors accurately." Adapted from American Optometric Association (AOA), 2002.

Optometry is the nation's third largest independent healthcare profession. With favorable working conditions, it offers many career options and great freedom in choosing a location to live and practice. Optometrists provide the majority of primary vision care administered. Over half the people in the United States wear glasses or contact lenses. Even people who may not require corrective eyewear need regular care to prevent and detect eye and vision problems, and manage eye disease.

The aging of the U.S. population has had two effects on the practice of optometry. First, nearly one quarter of practicing optometrists are approaching retirement age. As the baby-boomer generation enters retirement, many aging optometrists are looking for younger doctors who can take over their practices or offer new specialties to their practices.

Second, as the population ages, optometry services will be in increasing demand. Ninety percent of Americans 45 years of age and over will require vision correction. The growing number of senior citizens with age-related eye diseases such as cataracts, glaucoma, diabetic retinopathy, hypertensive retinopathy, and macular degeneration will increase the demand for services from optometrists.

As our society becomes more highly mechanized, vision requirements become more exacting. The number of people needing professional help for near-point visual tasks, including both older patients and college children, is steadily growing. Increased demands for vision care result not only from population changes but also from an increased understanding of how good vision relates to driving, workplace requirements, student achievement, leisure activities, adjustments to aging and other areas crucial to a modern computer and technology-driven society.

Demand for optometry services is also expected to increase as state laws, which regulate optometric practice (similar to all medical professions), are expanded. All states in North America recognize that optometrists are appropriately trained to prescribe medications for the treatment of diseases of the eye and surrounding structures.

Most new opportunities for graduates are created by the retirement of optometrists, the establishment of new offices, the inclusion of optometrists in interdisciplinary practices, and the growth of group practices, as well as from the expanding scope of care provided by optometrists. An increase in the number of corporate optometry locations has also created an increased demand for optometrists.

The number of new practicing optometrists is limited since there are just twenty schools and colleges of optometry in the United States, with two additional colleges in Canada. Class sizes are restricted and therefore the number of new graduates remains fairly constant. Federal data indicate that opportunities for optometrists are expected to grow about as fast as the average for all occupations through 2008 in response to the vision care needs of a growing and aging population. (U.S. Department of Labor, Bureau of Labor Statistics, the Occupational Outlook Handbook, 2000-2001).

Doctors of Optometry experience good satisfaction in their profession. U.S. News and World Report ranked optometry one of the best careers in 2007 (http://www.usnews.com/usnews/biztech/articles/061218/18career_intro.htm). The fact that many optometrists choose to practice on a part-time basis well into their retirement speaks highly of the rewards of the profession. Adding to optometrists' satisfaction is the fact that increases in their income have outpaced inflation for the past 10 years. Building on years of professional service as a primary entry point into the vision health care system, optometrists work with consumers and other health care providers, expanding delivery mechanisms to ensure improved general health.

Although optometry has met today's challenges with some measure of success, tomorrow's tests will be even greater. Tomorrow's challenges will require cooperation among health care providers, legislative bodies, public policy makers, and consumers with a firm commitment to modify the health care delivery system to the changing needs of the patient.

Future need for optometric services means that, upon graduation, tomorrow's optometric graduates will be able to choose from a wide range of options in terms of the nature and location of their practices.

However, the greatest importance to those considering a future in optometry is the fact that nationwide, the need for optometrists is growing rapidly. Hundreds of shortage areas for optometrists already exist and those shortages will inevitably increase as approximately one quarter of the optometrists practicing today are nearing the age of retirement.
Introduction to UM-St. Louis

The University of Missouri-St. Louis is one of four campuses that comprise the University of Missouri system, the ninth largest university in the United States. Established in Columbia, Missouri in 1839 on the ideals of Thomas Jefferson, the University of Missouri became a land-grant institution upon passage of the Morrill Act by Congress in 1862.

The university remained a single-campus institution until 1870, when the Rolla campus was opened. In the 1960s a movement began across the country toward creation of public universities located within metropolitan centers. That movement marked the most significant change in higher education in the twentieth century, and the University of Missouri-St. Louis is a product of that educational development. Two campuses were added in 1968. The private University of Kansas City became the university's Kansas City campus, and an entirely new campus was started in St. Louis.

The notion of a major public institution serving the St. Louis area evolved from a dream to a solid reality, which today exceeds the expectations of those who created it. Since the doors of the old Administration Building opened nearly 50 years ago, UM-St. Louis has become the largest university serving St. Louisans and the third largest university in the state. The university faculty has grown from 30 in 1963 to more than 900 members, committed to the future of the St. Louis area through teaching, research, and service.

One of the keys to this university's development as an outstanding institution has been the careful selection of faculty over the years. UM-St. Louis has attracted some of the top authorities in many fields. More than 90 percent of the full-time faculty hold doctoral degrees, a figure that far exceeds the national average. These professionals develop new theories and new procedures, and in so doing attract millions of dollars each year in research funding.

Student enrollment has grown from 600 in 1963 to more than 16,000. The numbers have changed, but not the spirit. Faculty and students are still most concerned with the education of new talent, which is the basis for the future social, intellectual, and economic health of Missouri's largest metropolitan area.

From its beginning on what was once the site of a country club with a single building, UM-St. Louis has grown to a large modern campus of some 73 buildings on 250 acres, offering a comprehensive university experience.

The curriculum has grown to include 42 undergraduate programs, 26 master's programs, seven preprofessional programs, ten doctoral programs, and one first professional degree program. There are programs which answer the particular needs of older students returning to college; of students pursuing pre-architecture, pre-law, pre-medicine, pre-optometry, pre-pharmacy, pre-engineering, or pre-journalism courses, and of students interested in urban careers. There are also many opportunities for students to combine their academic course work with internships that often lead to job offers.

UM-St. Louis Mission Statement

The University of Missouri-St. Louis is the land-grant research institution committed to meeting the diverse needs in the state's largest metropolitan community. It educates traditional and nontraditional students in undergraduate, graduate, and professional programs so that they may provide leadership in health professions, liberal and fine arts, science and technology, and metropolitan affairs such as business, education, and public policy. University research advances knowledge in all areas, and through outreach and public service, assists in solving, in particular, problems of the St. Louis region.

Academic programs are enriched through advanced technologies and partnerships that link UM-St. Louis to institutions and businesses locally, regionally, nationally, and internationally. Its special commitment to partnership provides UM-St. Louis with a leadership responsibility among public educational and cultural institutions in improving the region's quality of life, while its relations with two- and four-year colleges and universities in the St. Louis region promote seamless educational opportunities.

Academic Structure

UM-St. Louis consists of the College of Arts and Sciences, College of Business Administration, College of Education, College of Fine Arts and Communication, Graduate School, College of Nursing, College of Optometry, UM-St. Louis/Washington University Joint Engineering Program, and Continuing Education-Extension.

College of Arts and Sciences

The College of Arts and Sciences, largest of the divisions, includes the recently formed School of Social Work and 18 academic departments. These departments combine general educational offerings that provide students with opportunities to acquire a breadth of knowledge and a foundation in the basic skills of intellectual inquiry with basic preparation for the student's professional life through learning experiences leading to a career in a specific field.

College of Business Administration

Through its bachelor's and master's degree programs, the College of Business Administration expands student capability in communication, analysis, and judgment, enabling its graduates to deal effectively with today's complex economic environment. The college maintains a balance between the specialization of professional courses and the diversity of liberal arts.
College of Education
Consistently one of the top three institutions in the state in production of educators, the College of Education provides undergraduate and graduate programs to prepare and sustain educational leaders. Its programs emphasize state-of-the-art technological applications to enhance teaching and learning as well as collaboration among university, college, agency, and corporate partners.

College of Fine Arts and Communication
The College of Fine Arts and Communication includes the Departments of Art and Art History, Communication, Music and Theater Dance and Media Studies. Our faculty and alumni have distinguished themselves as scholars, visual artists, teacher and performers.

Graduate School
Programs offered in the Graduate School fall into two categories: professional programs designed to develop a special competence in a particular field and academic programs designed to develop the student’s command of a range of related subjects within a field. These graduate programs are structured to meet the needs of the metropolitan area and to give students the skills and professional competence to succeed.

College of Optometry
The College of Optometry is one of 20 colleges in the United States. It provides professional optometric education and clinical experience. Facilities are furnished with equipment for teaching and research. The college operates the University Eye Center on campus, the Optometric Center of St. Louis in the city’s Central West End, the East St. Louis Eye Center, jointly owned and operated by the UM-St. Louis College of Optometry and Southern Illinois University at Edwardsville, and the Harvester Eye Center, a private practice setting in St. Charles, Missouri.

Pierre Laclede Honors College
The Pierre Laclede Honors College brings together intellectually curious and gifted students who are pursuing various career goals and earning degrees in disciplines offered by the university’s other undergraduate schools and colleges. Honors Scholars follow a special curriculum that combines Honors College classes with course work done for honors credit in their major areas. In addition to offering scholarships and stipends, the college’s Community Mentorship Program links scholars with model urban citizens who share their interests.

College of Nursing
The College of Nursing offers programs at the bachelor’s, master’s, and doctoral levels. The Bachelor of Science in Nursing is available for a student wishing to pursue a program of study leading to eligibility to complete state licensure examinations to become a registered nurse (R.N.). In addition, an upper-level option designed for the associate degree or diploma-educated registered nurse avoids repeating basic nursing course work. The Master of Science in Nursing, a cooperative program with UM-Kansas City College of Nursing, offers studies in adult, children’s, and women’s health. Practitioner options are also available (adult, family, neonatal, pediatric, and women) as part of the MSN program. The Ph.D. in Nursing offers studies focused on health promotion and protection, health restoration and support, and health care systems.

UM-St. Louis/Washington University Joint Undergraduate Engineering Program
The University of Missouri-St. Louis and Washington University have joined forces to offer Bachelor of Science degrees in mechanical, electrical, and civil engineering. Students who enter the program take about half of their course work—mathematics, physics, chemistry, humanities and social sciences, and some elementary engineering subjects—on the campus of UM-St. Louis. The remaining half consists of upper-level engineering courses and laboratories taken on the campus of Washington University and taught by Washington University engineering faculty members. Students register for all courses at UM-St. Louis, pay tuition at UM-St. Louis rates (plus a small surcharge on engineering courses), and receive their degrees from the University of Missouri.

Continuing Education and Outreach
Continuing Education and Outreach extends the university’s expertise to the community by offering a variety of credit and noncredit courses, both on- and off-campus. It also sponsors programs in the community, such as the annual St. Louis Storytelling Festival.

Office of International Student Services of the Center for International Studies
The Office of International Student Services assists international students and scholars with undergraduate and graduate admission, credential and transfer credit evaluations, visa and immigration advising, pre-arrival and cultural adaptation assistance, new international student and scholar orientation, prospective student information requests, and personal advising. The office also coordinates activities for integration of students and scholars into the community by facilitating cultural events and activities, coordinating the annual International Student Speaker’s Bureau, and working closely with other campus and community organizations.
Student Life

Although UM-St. Louis provides opportunities for all students through a demanding curriculum, the life of the university is not all work. There are a great many leisure-time activities, either free or at reduced cost to students. Numerous student organizations, from the Accounting Club to Zeta Tau Alpha sorority, seek members and leaders. Interesting speakers, concerts, film series, plays, exhibits, recitals, and a host of informal gatherings crowd each week’s schedule. The St. Louis area offers still more recreational, sports, and cultural events.

The university offers a wide range of varsity and intramural sports for students, whether as players or spectators. On the varsity level, Rivermen and Riverwomen compete in most major sports. UM-St. Louis men’s soccer teams have participated in numerous NCAA Division II tournaments; the team won the national title in 1973. The men’s basketball, baseball, swimming, and golf teams frequently play in national tournaments. The expanding women’s program includes varsity competition in basketball, soccer, softball, volleyball, swimming, and tennis. The women’s soccer team ranks annually in the top 20 teams nationwide.

The Mark Twain athletic facility offers a state-of-the-art fitness center, weight room, swimming pool, and basketball, volleyball, handball, and racquetball courts. Outdoor facilities include tennis and handball courts, a fitness trail, and baseball, soccer, and softball fields. Students will find fitness activities, both organized and individual, to suit their interests and needs. Intramural sports are available to all students, with schedules designed for maximum participation.

Graduates

The graduates of UM-St. Louis reflect the diversity found in a metropolitan community. The university has more than 70,000 graduates living in all 50 states and several foreign countries. Of these alumni, more than 80 percent continue to live and work in the St. Louis metropolitan area.

The university is a major force in providing the region with a highly educated and diverse work force. Alumni can be found in companies and organizations throughout the region and nation.

Accreditation

The University of Missouri-St. Louis is fully accredited by the Higher Learning Commission (HLC) located at 30 North LaSalle Street, Suite 2400, Chicago, Illinois, 60602-2504. HLC is part of the North Central Association of Colleges and Schools, one of six regional institutional accreditors in the United States. Through its Commissions it accredits, and thereby grants membership to educational institutions in the North Central region: Arkansas, Arizona, Colorado, Iowa, Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, North Dakota, Nebraska, Ohio, Oklahoma, New Mexico, South Dakota, Wisconsin, West Virginia, and Wyoming. HLC is recognized by the US Department of Education and the Council on Higher Education Accreditation (CHEA).
College of Optometry

History

In 1968 the Missouri Optometric Association first recommended that an optometry college be established in the state. A committee was appointed for the purpose of pursuing this goal. The committee contacted the Missouri Commission on Higher Education, and that body undertook a study of the “optometric manpower needs” in Missouri. A formal report was released in June of 1970 that documented the need for an increase in the number of optometrists in the state.

In 1974 the state legislature approved $50,000 to be used for “the planning phase for the opening of a College of Optometry.” As a consequence, the University of Missouri-St. Louis submitted a plan leading to the establishment of an optometry college. An additional optometric workforce study was completed in 1976 and updated in 1977 as part of the Health Manpower Planning Project. This study also documented the need for additional optometrists in Missouri and recommended the establishment of a regional College of Optometry serving Missouri, Kansas, Iowa, and Nebraska.

In 1977 a House Bill was passed providing for the establishment of an optometry college. A state appropriation of $200,000 was approved in 1979 and $1.3 million for capitation and start-up funding was obtained from the federal government for the start of the college. On May 12, 1980 the governor signed the bill authorizing the establishment of the college, and it officially came into existence on June 1, 1980.

Educational Philosophy

Educating a health-care professional is a formidable undertaking. Due to the multifold consequences of decisions made on behalf of the patient's well-being and the autonomy health professionals enjoy, the educational process must be well-planned and thorough.

As primary eye care providers, optometrists must be competent to provide traditional optometric services, such as the remediation of optical defects of the eye through appropriate diagnosis and prescription of glasses, contact lenses, and specialized visual aids for the partially sighted; optimization of the visual performance of the individual; and evaluation and treatment of eye movement and binocular vision anomalies. They also must be able to evaluate the health status of the eye and visual system, recognize and appreciate the ocular signs and symptoms of systemic diseases, and be able to provide treatment for most eye diseases. All these abilities must be reflected in the educational program. The rapid expansion of the scope of optometric practice has necessitated shifts of the curriculum of the schools and colleges of optometry.

The optometric educational program must encompass not only the specialized knowledge and technical capabilities necessary for the practice of optometry, but also must offer curricular elements and experiences that will enable graduates to be effective in the delivery of full-scope optometric eye care. The appropriate professional relationship to a patient is one in which the patient is willing to be fully revealing of his or her medical history and symptoms that might be related to eye health. The patient must trust the practitioner to be confidential, to have the wisdom and clinical experience to make effective diagnostic and therapeutic judgments, to be objective and place the patient's best interests foremost in the total doctor/patient interaction. The optometrist must be able to explain existing conditions, treatment options, and outcomes to the patient in a straightforward manner that is clear and understandable to the patient and with the appropriate degree of candor and compassion. Optimizing each of these abilities is the purpose of courses addressing the understanding and appreciation of human behavior, interpersonal communications, public health, and community and societal needs. The "art" of practicing a health profession is in part comprised of these skills, which cannot be taught by classroom work alone.

Moreover, the development of these complex attitudes and communication skills depends on having the appropriate role models and learning through closely-guided experience with patients.

In addition to providing students with the fundamental and specialized knowledge base required for the contemporary practice of optometry, a health-professional's educational program must be concerned with the development of the ability to continue the educational process beyond graduation. The knowledge and technological explosion that has occurred in the last 25 years makes this even more imperative. Consequently, the four-year educational program must prepare the student for life-long learning. The faculty, through their educational interactions with students, must be able to transfer a thirst for continued learning and the ability to acquire new knowledge and skills through educational experiences that will be largely self-initiated. This learning process requires the students to obtain an appreciation for the scientific process and how to analyze and evaluate scientific and clinical research as demonstrated by faculty in the laboratory and clinical setting, but ultimately the students must learn to carry out these activities on their own.

Professional college is not just an education system but also a social system. This aspect of the program can be most influential in shaping the budding professional's attitudes and values regarding professionalism and professional practice. Role-model learning, curricular arrangement, student selection, the nature and type of patient experiences, peers, faculty, and institutional influence, and the overall learning climate of the college are all significant factors in this socialization process. The development of professional standards and ethics is
important, especially in light of the prerogatives and self-
policing of the professions.

The professional education program is complex and must
be carefully structured. Each of the considerations above
must be reflected in the curriculum and in the overall
educational experience of each student.

**Goals**

The major goals of the University of Missouri-St. Louis
College of Optometry are:

- Attract and educate superior entering students with
  appropriate academic capabilities, education and
  motivation, who will become exemplary practitioners through a quality learning experience.

- Encourage faculty to achieve their highest potential,
  thereby fostering career satisfaction and creating outstanding role models for students.

- Develop and maintain an active vision research program to ensure high quality instruction in both the professional and graduate programs and to advance vision science.

- Provide effective graduate education in vision science so as to produce educators and researchers for optometry and vision science.

- Conduct high quality, accredited post-graduate residency programs that enhance and extend optometric skills beyond entry-level optometry.

- Provide high quality continuing education opportunities for optometrists in Missouri and surrounding states.

- Plan for improvements to the physical facility and equipment, as to make the environment conducive to the highest level of learning, patient care, research, and service.

- Contribute to the social welfare of the community through clinical and related service programs.

**Facilities**

Situated in Missouri’s largest metropolitan area, the College of Optometry enjoys the city’s strong community and professional support. The urban setting offers many opportunities for outreach programs, expanding the scope of optometric education and making possible a highly diverse program of clinical training. Another asset of the College is its proximity to the national headquarters of the American Optometric Association, located just a few miles from campus.

The College of Optometry is located on the South Campus of the University of Missouri-St. Louis and shares in the use of many university resources. A modern five-story building houses the College’s classrooms, laboratories, research facilities, administrative offices, library, and the University Eye Center. The complex also includes a 350-seat amphitheatre and the E. Desmond Lee Technology and Learning Center.

**University Eye Center**

The University Eye Center, located on the South Campus, is open to the public, as well as to the faculty, staff, and students of the University. The Center serves to provide patients with the highest quality eye and vision care. This purpose is consistent with the overall goal of training highly qualified eye care practitioners.

In addition to the University Eye Center, the College operates the Optometric Center of St. Louis, a full scope optometric eye care facility in the Central West End of the city, the East St. Louis Eye Center, and the Harvester Eye Center in St. Charles, Missouri. All of the patient care facilities serve patients from the St. Louis metropolitan area.

**Libraries**

The University Libraries support the educational objectives of the university and meet the teaching, research, and informational needs of the campus community. Housed in three locations—the Thomas Jefferson Library and the St. Louis Mercantile Library at UM-St. Louis (North Campus) and the Ward E. Barnes Library (South Campus)—the Libraries’ collections consist of more than 950,000 volumes, 2,900 periodical subscriptions, one million U.S. government documents, over one million items in microform, and numerous special and manuscript collections.

Materials from the libraries of all campuses of the University of Missouri and Saint Louis University can be identified in the MERLIN online catalog. At the time of the catalog search, users can request that items at other institutions be transferred to UM-St. Louis. A full range of services, including interlibrary loan, reference assistance, library instruction, and access to a large number of databases are also available through the Libraries.

**Accreditation and Professional Association**

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 official optometric agency recognized by the National Commission on Accrediting. The ACOE is located at 243 North Lindbergh Blvd., St. Louis, Missouri, 63141 (phone 314-991-4100). Optometry students and graduates are eligible to take the annual examinations of the National Board of Examiners in Optometry. Graduates of the college are eligible for licensure in all 50 states and the District of Columbia.
Our Graduates

Just over 1000 optometry alumni may be found around the world including Cameroon, Australia, and Canada, in addition to countries served by our military. Our alumni reside in 42 states. While primarily clustered in the upper and central Midwest and plains states, many of our graduates may be found in California and Texas. We also have alumni in Alaska and Hawaii.
Patient Care

Center for Eye Care

The Center for Eye Care provides a patient care environment for upper level optometry students and post-doctoral residents. The Center for Eye Care includes four locations: the University Eye Center on the UM-St. Louis South Campus, the Optometric Center in the Central West End of the city of St. Louis, the East St. Louis Eye Center on the campus of East St. Louis Community College, and Harvester Eye Center in St. Charles, MO. The main purpose of these and other neighborhood health clinics in the St. Louis area is to provide an instructional setting where student interns are exposed to a wide variety of patients under the direct supervision of College of Optometry faculty. Equally important is that these Centers provide exemplary, comprehensive and state-of-the-art Optometric care to their patients.

The Centers provide a full range of Optometric services including adult primary eye care, contact lens, pediatrics, binocular vision, low vision, and eye health management. Specialized testing of color vision and electrophysiology are also available. These services are described below in greater detail.

Third Year Patient Care Service

Most adult patients are initially scheduled into the Third Year Patient Care Service. This service is staffed by third-year clinicians and is an entry level into most of the other services. In this service, comprehensive eye examinations are performed encompassing testing for refractive status, binocular status and the ocular health of each patient. In addition, this service serves to provide emergency care. When patients have been identified as needing additional care, they are referred to other services according to their specific needs.

Pediatric/Binocular Vision Service

The Pediatric/Binocular Vision Service serves patients who have problems with their eyes working together, such as in amblyopia (lazy eye), strabismus (crossed eyes), or other eye-muscle coordination difficulties. After the problem is thoroughly evaluated, a treatment program for eye exercises or spectacles, if necessary, may be prescribed.

Children 13 years or under are initially scheduled in the Pediatric/Binocular Vision Service for a comprehensive eye examination.

In addition, a special educator is associated with this service in the role of consultant. College screenings, both elementary and precollege levels, are coordinated through the Pediatric/Binocular Vision Service.

Pupil Project

The Pupil Project is an innovative program that brings together the resources and expertise of the UMSL College of Optometry and College of Education faculty to manage learning related vision problems. This program incorporates a multidisciplinary team of Optometrists, School Psychologists, Special Educators and Physical & Occupational Therapists. The Pupil Project provides Optometric, Psychological and Educational clinical evaluation, diagnosis and remediation for children with learning related vision problems.

Contact Lens Service

The Contact Lens Service offers patients an alternative to spectacle correction. Many people can obtain better vision with contact lenses than with eyeglasses. Others wear contact lenses so they can participate more fully in athletics or other recreational activities.

With the wide selection of lens types available, many people who previously could not be fitted with contact lenses can now wear them successfully.

Student clinicians are exposed to gas-permeable and soft contact lens materials and gain expertise in fitting spherical, toric and bifocal contact lenses. Many students have the opportunity to participate in contact lens research studies supported by industry, foundation and federal research grants.

Low Vision Service

The Low Vision and Visual Rehabilitation Service provide comprehensive examinations and rehabilitative follow-up care to patients who are partially sighted. Persons of all ages who suffer from vision losses, that are not correctable by standard optical means, can often benefit greatly from the proper application of optical and non-optical low vision aids. Many of the patients examined in this service are legally blind. Such individuals usually have remaining vision which can be enhanced through the use of appropriate optical devices.
Eye Health Management Service

The doctors in the Eye Health Management Service serve local patients with ocular disease, and consult in the diagnosis of patients with presumed ocular disease. The fourth year interns rotate through this service which utilizes advanced diagnostic technology to aid in the diagnosis and care of patients with conditions such as glaucoma, macular degeneration, diabetic eye disease, dry eye, infectious eye disease and many others. Interns learn the finer points of advanced differential diagnosis and clinical decision making. Interns also observe the co-management of patients that require surgical consultation of the ophthalmic community as the need arises.

Dispensary Service

The Center offers patients full spectacle, frame and lens services. Clinicians are responsible for the frame selection of patients they examine. Second year students rotate through this service to get an opportunity to dispense new frame and lens materials, and instruct patients in their proper use, care and handling. Students also learn to fit, adjust and repair frames.

Fourth Year Externship Program

In addition to the patient care experiences available through the University Eye Center, Optometric Center, the East St. Louis Center, and the Harvester Eye Center, the College of Optometry has a diverse Externship Program. Students must receive approval from the faculty and the Director of Externships for assignments to each Externship site. This program allows fourth-year students to spend a portion of their final year of training in a variety of patient care environments (i.e., military bases, Veterans Administration Hospitals, Indian Health Services Hospitals, various specialty practices and private practices).

These eight (8) week Externships are selected and scheduled with consideration given to the individual student's interest, needs and future practice intentions. Externship rotations are located at a number of domestic and international sites. In this program, students leave the academic environment and begin working with selected eye care professionals while continuing to be monitored by the faculty through bi-weekly reports of patient encounters, therapies, and activities. The Externship rotations are designed to give students exposure in the following areas:

- Pediatric/Binocular Vision Patient Care,
- Contact Lens Patient Care,
- Low Vision Patient Care,
- General (Primary) Patient Care,
- Refractive Management Patient Care,
- Eye Health Management Patient Care,
- Geriatric Patient Care,
- Optometric Rehabilitation Patient Care.

Research

While the University Eye Center is primarily a patient care training facility, various members of the faculty are nationally and internally recognized for conducting patient care related research. Research in the areas of electrodiagnostic testing, contact lens design, materials and care regimens, orthokeratology, binocular visual anomalies, and treatment of ocular diseases is being investigated in association with the patient care activities of the Centers.

The College of Optometry is part of a university with a land-grant, research-oriented mission. The University is the only public academic institution in the state that has a primary research mission. Research compliments teaching because faculty active in the discovery of new knowledge provide students with the insight to understand and use this knowledge, and they also provide firsthand understanding of how discoveries are made.

There are two basic types of research conducted in any health-professions program: basic laboratory research and clinically-oriented investigations. As you read the descriptions of research, note that some studies are purely one or the other, and some are combined.
Faculty

Dr. Gary Bachman's (Associate Professor) research falls into several areas. First, he studies progressive addition spectacle lenses and their applications and acceptance by select groups of presbyopic subjects. To date these have included presbyopic computer users, presbyopic contact lens wearers, high index progressive wearers, and presbyopic law enforcement officers. Second, he is active in the visual assessment area as the vision consultant to the Missouri Highway Patrol. This involves researching visual requirements for the patrol in order to screen and advise on acceptance and retention of troopers. Third he has developed a program of research on the visual effects of laser eye protective devices worn by military aircrew. This research will determine the effects of these absorptive and holographic devices on color vision and color adaptation. Finally, he has begun a study of the effects of deposits and degradation of automobile windshields on driver vision and reaction time.

Dr. Carl Bassi's (Associate Professor) research involves the development of novel approaches to evaluate the visual system in a number of patient populations. The goals are to improve disease diagnosis, assessment of progression, and treatment. There are currently four major areas of interest in the laboratory:

- the development of new devices for the assessment of color vision, visual suppression, and photophobia;
- evaluation of the effects of a macular pigment, zeaxanthin, on visual function;
- evaluation of color vision in applied settings;
- electrophysiological (including electroretinograms [ERGs] and visual evoked potentials [VPDs]) as well as psychophysical techniques (including color vision, contrast sensitivity, and stereopsis) are used to assess structure-function relationships in patients with dementia, glaucoma, macular degeneration and other retinal abnormalities.

This work has been funded through Northrup-Grumman Technologies, Zeavision, Missouri Alzheimer's Association, University of Missouri Research Board, and a Weldon Springs award.

Dr. Edward Bennett (Associate Professor) is actively involved in the clinical investigation of contact lens designs, materials and care regimens. Over the past twenty-five years he and his co-workers have performed more than 100 contact lens research studies, most of which have been supported by the contact lens industry. Specifically, his area of interest has been gas permeable contact lenses. He is especially interested in evaluating different types of rigid contact lens bifocal designs, the effect of different variables of initial comfort of gas permeable lenses, and the use of GP lenses to reduce myopia with overnight wear (i.e., orthokeratology or corneal reshaping). He has authored or edited nine contact lens texts and two national board examination review books.

Dr. Bennett is the Director of Student Services for the College of Optometry.

Dr. Kathleen Boland (Assistant Clinical Professor) serves in the areas of Primary Care and Community Services which provides vision examinations throughout the St. Louis and St. Charles metropolitan areas. Dr. Boland is currently the Interim Director of Harvester Eye Care and also provides eye and vision care at a variety of other institutions throughout the region, many which serve the elderly and those with subnormal vision. Dr. Boland is the coordinator for the courses in Low Vision Rehabilitation and Geriatrics at the College. Dr. Boland has worked on research involving how carotenoid supplements affect light sensitivity. Currently she is working with the University’s Gerontology Department doing research regarding driver’s licensing and vision impairment. Dr. Boland earned a Bachelor of Arts degree from Benedictine College, and a Doctor of Optometry degree from UM-St. Louis College of Optometry.

Dr. John Crane (Assistant Clinical Professor) received his B.A. in molecular biology from William Jewell College in 1987, and his O.D. from the College of Optometry at UM-St. Louis in 1991. Prior to joining the College as a full-time member of the faculty in 2000, he was in solo and group practice in the St. Louis area. Currently, Dr. Crane serves as course coordinator for the ocular disease curriculum, Interim Chief of the college’s Eye Health Management Service, and Coordinator of University Eye Center Grand Rounds. His primary teaching interest is the incorporation of academic concepts into effective clinical diagnosis and management skills, as lecturer and preceptor in UM-St. Louis clinics. Other clinical and teaching interests include glaucoma diagnosis and management, and diabetic eye disease.
**Dr. Larry J. Davis** (Dean/Associate Professor) currently serves as Dean of the College. He joined the University in 1993 as an Assistant Professor after having held a full time faculty appointment in the Department of Ophthalmology at Saint Louis University School of Medicine where he also served as Director of the Contact Lens Service from 1988-1993.

He is a Fellow of the American Academy of Optometry and Diplomat of the Cornea and Contact Lens Section. He serves on the Scientific Program Committee of the academy and is a past President of the Association of Schools and Colleges of Optometry (ASCO) and the Saint Louis Optometric Society (SLOS) representing over 200 members. He completed the inaugural yearlong UM-System Leadership Development Program for Department Chairs and was one of three academic leaders selected by ASCO to participate in a yearlong leadership program for administrators of health professions training programs. In 1999 the students at UM-St. Louis selected him as Outstanding Optometric Educator of The Year. He was awarded Optometrist of the Year in 1994 and Distinguished Optometrist for 2002 by the membership of the St. Louis Optometric Society.

Dr. Davis’s area of academic specialization is cornea, contact lenses and anterior segment ocular disease with special emphasis in refractive management of the diseased and/or injured eye. From 1993 to 2004 he served as the UM-St. Louis participating clinic principal investigator for the Collaborative Longitudinal Evaluation of Keratoconus (CLEK) study, a multi-centered observational study of the common corneal disease.

Dr. Davis’s teaching responsibilities have included service as coordinator of the two-semester course in Ocular Disease and Ocular Assessment, a course that he helped to establish. He also serves as facilitator for the course entitled Scenario Based Discovery; a case based introductory experience for students enrolled in their first professional year. He has also served as preceptor in the primary care, eye health management and contact lens services in the Center for Eye Care.

**Dr. Julie DeKinder** (Assistant Clinical Professor) specializes in contact lenses. Dr. DeKinder’s primary teaching responsibilities include instructing Biochemistry 8060 and co-instructing Ocular Assessment. Her primary clinical responsibilities include managing the refractive management clinic and attending students in several contact lens and primary care clinics. Dr. DeKinder conducts contact lens research and is currently involved in the SMART study.

**Dr. Aaron Franzel’s** (Assistant Clinical Professor) clinical research involves the study of sensory and motor aspects of strabismus. In particular, he is interested in the development and progression of esotropia. Currently, he is studying familial esotropia, determining characteristics shared by these families and suggesting potential risk factors for the incidence of binocular dysfunctions in non-strabismic family members. He is also interested in developing more successful therapy regimens for adults with strabismus.

**Dr. Gerald A. Franzel**, (Associate Dean of Continuing Education /Associate Clinical Professor). His work insures that a full range of CE course offerings are formatted to provide a continuum of optometric education to serve as a basis for professional growth and meet re-licensure requirements. Through continuing education the college has established an outreach relationship with alumni, the ophthalmic community, private and governmental institutions and professional associations.

Dean Franzel, in cooperation with the UMSL College of Education, initiated the Pupil Project in the UMSL Center for Eyecare to provide multi-discipline evaluation and remediation of Learning Related Vision Problems, to do research and to disseminate information to the professions and the public. The initiation of graduate studies that leads to a chancellor’s certificate in Learning Related Vision Problems for educators is but one such outcome. The Pupil Project is a focal point for the development of cooperative and support programs with the metropolitan area’s school districts.

As co-founders of the UMSL College of Optometry, Dr Gerald A Franzel and his colleague Dr. Robert Mobley were awarded the College of Optometry’s Dean’s Award for Meritorious Service.

**Dr. Christine Garhart** (Assistant Teaching Professor) serves as the course coordinator for the basic human biology courses covering anatomy, physiology, immunology, and pathology. Dr. Garhart earned her D.V.M. from the University of Missouri-Columbia in 1978. She has done postdoctoral research at The University of Chicago, Washington University, Massachusetts General Hospital, and Tufts University. She trained in anatomic veterinary pathology at Angell Memorial Animal Hospital and Oklahoma State University prior to receiving her Ph.D. from Case Western Reserve University in 2002. Dr. Garhart’s dissertation research involved the immune response to *Helicobacter pylori*. Her interests include immunopathology and host-pathogen interactions.

**Dr. Ralph Garzia** (Associate Professor) serves as Assistant Dean for Clinical Programs and Webmaster for the College of Optometry. His area of clinical specialization is Pediatric Optometry and Binocular Vision. He has conducted a number of clinical research investigations on these topics. His principal interest is learning related vision problems, especially the role of early visual information processing reading achievement.
**Dr. Alexander Harris**, (Assistant Clinical Professor) is the Director of Externship Programs for fourth year students. This involves the planning and advisement of students while they are in their third year and monitoring their progress during the fourth year.

As the College of Optometry’s advisor for Minority Affairs, he actively participates in student counseling and advisement, community and school health fairs, and Career day Programs. He is the Advisor for the UM-St. Louis Chapter of the National Optometric Student Association.

Dr. Harris is the 1997-98 Past-President of the St. Louis Optometric Society.

**Dr. Vinita Henry** (Clinical Professor) is the Chief of the Contact Lens Service, the Director of Residencies and the Interim Clinic Director. There are 5 residency programs affiliated with the University and two in-house residency programs for a total of 10 residents. She serves as an instructor in the contact lens courses along with Dr. Bennett and Dr. DeKinder.

**Dr. Edward Jarka** (Assistant Clinical Professor) is the Center Coordinator at two affiliated off-campus clinic sites, the Optometric Center in the Central West End of the city of St. Louis, and the East St. Louis Center in East St. Louis, Illinois. He concentrates his clinical practice in the treatment of ocular disease.

Dr. Jarka pursued a wide variety of clinical and research opportunities prior to joining the faculty at UM-St. Louis in 2003. He has been in private practice and a staff member of a large staff model HMO. In 1994 he joined the CIBA Vision Corporation as a Senior Research Optometrist and worked on a number of projects that led to products in use today. The desire to concentrate in primary care led him to the Danville Eye Clinic, a large optometry/ophthalmology practice in East Central Illinois, where he concentrated in pediatric and primary care optometry. He has served as a consultant to the Veterans Administration Hospital in Danville and a member of the staff at the Provena United Samaritan Medical Center of Danville, IL.

He obtained his M.S., with emphasis in microbiology, from Western Illinois University in Macomb, Illinois and his Doctor of Optometry at the Illinois College of Optometry.

**Thomas Landgraf** (Associate Clinical Professor), a graduate of Illinois College of Optometry, completed a Residency in Primary Care Optometry at the Pennsylvania College of Optometry. Prior to joining the faculty at the University of Missouri St. Louis College of Optometry in 2007, Dr. Landgraf served as Chief of the Advanced Care Ocular Disease Service at Southern College of Optometry. While at the Southern College of Optometry, Dr. Landgraf received numerous teaching awards. Dr. Landgraf is a nationally recognized lecturer on Treatment and Management of Ocular Disease and Injections. He is a fellow of the American Academy of Optometry. Dr. Landgraf has served in an administrative capacity on numerous occasions for clinical portion of the National Board of Examiners in Optometry. At the College of Optometry at the University of Missouri St. Louis, Dr. Landgraf teaches in the Ocular Disease clinical and didactic sequences.

**Dr. Guoqiang Li** (Assistant Professor), received his PhD degree from Chinese Academy of Sciences and completed a fellowship at the University of California, San Diego. Then he worked at Carl Zeiss Meditech, Inc. as a Research Scientist. Prior to joining the College in 2008, he was an Associate Research Professor of College of Optical Sciences at university of Arizona.

Dr. Li teaches Physical Optics and Optometry for the OD program and he integrates his research into teaching. Currently he has an active research program funded by National Institutes of Health and Coulter Foundation. Dr. Li is conducting interdisciplinary research in the field of vision optics and biomedical optics. He is interested in innovative technologies for improving vision, new approaches for detecting and preventing eye diseases, and noninvasive high-resolution imaging tools in biology and medicine. The current effort is devoted to developing adaptive optics for vision correction and developing advanced ophthalmoscope for early diagnosis of eye diseases and characterization of some dynamic ocular behaviors. Another focus of research is to investigate biomedical cellular imaging based on confocal, optical coherence tomography, two-photon, acousto-optic, photoacoustic, and dynamic holographic techniques. Development of novel electro-optic devices is needed for these applications.

Dr. Li has a track record in his research. He has authored or co-authored more than eighty refereed journal papers and two book chapters and had delivered over twenty invited presentation throughout the world. He has more than 30 conference presentations. His work has generated significant impact.

Dr. Li is a member of ARVO, OSA, and SPIE. Her serves as a technical program committee member for international conferences and is involved in organizing these conferences. He also serves as a member of IACUC and Research Policy committee of UMSL.
Dr. Linda Marks, (Assistant Clinical Professor) completed her undergraduate and post-graduate education at Ferris State University in Big Rapids, Michigan, earning her Doctor of Optometry degree from the Michigan College of Optometry in 2002. After graduation, she completed the pediatric/binocular vision residency at the University of Missouri-St. Louis College of Optometry and joined the clinical faculty at the College in August 2003.

Dr. Marks’ instructional responsibilities include didactic and clinical education in diagnosis and management of binocular vision anomalies, in addition to primary and secondary care of pediatric patients. Her primary interests include vision therapy and treatment of patients with strabismus, learning-related vision disorders, and special needs, including autism. She serves as the Coordinator of Vision Screenings in addition to examining children on the college’s Mobile Eye Clinic. Primary care experience includes weekly visits to LaClinica, a Latino Community Health Center in south St. Louis City.

Dr. W. Howard McAlister’s (Associate Professor) scholarly activity is primarily related to public health, specifically health policy, environmental vision and epidemiology. His current focus is international health care, involving optometric education, access to patient care and the impact of public policy in lesser developed countries, and diverse patient populations. Dr. McAlister has contributed heavily in these areas in refereed journals and textbooks. His research regarding the role of optometry in the interdisciplinary health care delivery system includes several studies dealing with the evolving primary care model of practice, specifically the coordination of care with primary care medical practitioners, the effect of changes in optometric practice acts on patient services, and scope of practice as it relates to classes of federal service optometry.

Dr. Raymond Myers (Clinical Professor) is an Associate Clinical Professor at the University of Missouri-St. Louis. His research interests include contact lenses, refractive surgery, and the concerns of optometric students. As the first president and co-founder of the American Optometric Student Association, he has studied the financial indebtedness of optometry students as well as grading methods. He is presently concerned with innovative techniques of refractive surgery for the correction of refractive errors and cataract retardation. He has also published various articles on the properties of contact lenses including fitting characteristics, flexure, and lens deposits and buildup. He is a co-founder of the International Society for Contact Lens Research and for the Annual Materials Science Symposia in Contact Lenses, held now in New Orleans, Louisiana.

Dr. Myers received his degrees from the University of Notre Dame and Indiana University, and did a post graduate research fellowship at Moorfields Eye Hospital in London. He has been in private practice, the contact lens industry, and has been on the medical staffs of LSU Eye Center in New Orleans and Washington University in St. Louis as well as the UM-St. Louis College of Optometry.

Dr. Angel Novel (Assistant clinical Professor) is a recent addition to the College of Optometry faculty. She completed undergraduate studies with honors at Xavier University of Louisiana with a Bachelor of Science degree in biology. Dr. Novel obtained her Doctor of Optometry from UM-St. Louis College of Optometry in 2003. During her time at UMSL, Dr. Novel was involved in various student organizations. Upon graduation, Dr. Novel pursued specialized training in Ocular Disease Management/Primary Care through an accredited residency program at the VA Hudson Valley Health Care System in Montrose, NY. During her residency, Dr. Novel was nationally recognized at the American Academy of Optometry and the American Optometric Association where she presented several invited posters. Post residency, she worked in a variety of practice modalities and received additional training in refractive management. Currently, Dr. Novel precepts College of Optometry students at community based clinics in St. Louis and East St. Louis, and is involved in various didactic courses in the curriculum, as well as serving as faculty co-sponsor of the National Optometric Student Association (NOSA).

Dr. Carol Peck’s (Professor) research interests are in visual neuroscience and visual perception, including binocular vision. Her laboratory has conducted numerous studies of neural control of rapid (or saccadic) eye movements. She is interested in how our perception and reactions to visual inputs are controlled in complex, real world environments. This work has clinical implications in the areas of environmental vision, low vision and reading disability. It has been supported by the National Institutes of Health, by the University of Missouri Research Board, and by the United States Air Force.

Dr. Peck is a member of the pediatric/binocular vision teaching track. Her teaching interests include Ocular Motility, Binocular Vision and Space Perception, and Monocular Sensory Processes in the O.D. program and Sensory Neuroscience in the M.S/Ph.D. program. Together with Dr. Carl Bassi, she offers a journal club course (Opt. 6499) for elective credit, and she teaches in the ocular motility service of the pediatric optometry clinic.

Dr. Peck is a fellow of the American Academy of Optometry and a member of the American Optometric Association, of the Missouri Optometric Association and of the Society for Neuroscience. She serves on numerous committees in the College and on the UM-St. Louis campus.

Dr. Timothy Wingert (Professor) is interested in the clinical aspects of optometry and access to optometric services. He is also interested in the visual demands of different occupations and the restrictions put on wearers of visual aids and protective eyewear. He is currently involved in several studies concerning the prevalence of vision anomalies in different populations.
Dr. Wingert is a Fellow of the American Academy of Optometry and a Diplomat in the Academy’s Section on Public Health and Environmental Vision. He is the Past President of the Missouri Optometric Association and the first optometrist to be named a traditional Fulbright Scholar.

Dr. Erwin Wong (Assistant Professor) joined the College in January 2005. He teaches in the professional and graduate programs and is Principal Investigator of the NIH National Eye Institute funded research project entitled, “Extrastriate Visual Cortex Deficits in Amblyopia.”

Dr. Wong is from Honolulu, Hawaii and received his undergraduate education from the University of Hawaii and professional education from the Southern California College of Optometry. Following a decade of clinical practice in ophthalmology and multidisciplinary medical clinics in Oregon, California and Hawaii, Dr. Wong served as an instructor at the University of Auckland Department of Optometry, New Zealand. He then received his graduate education from the University of Houston, earning a Ph.D. in physiological optics in May 2003. His postdoctoral study occurred at the University of California, Berkeley, and Washington University in St. Louis. Dr. Wong’s research involves using visual psychophysics and functional magnetic resonance imaging to investigate the neural mechanisms of first-order and second-order spatial vision, and visual cognition in normal and amblyopic humans. His research contributes to basic and clinical vision science. Dr. Wong’s teaching interests include didactic, research and clinical instruction in the areas of visual development and amblyopia, visual psychophysics, cognitive neuroscience, and optometry.
Curricular Outcomes

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. A Doctor 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.

The UMSL College of Optometry shall ensure that before graduation each student will effectively utilize and demonstrate a working knowledge in patient care with each of the following areas:

1. basic body systems, with special emphasis on the ocular and visual system and their interrelationship to the body as a whole;
2. the impact of genes and their interaction with behavior, diet and the environment on human health;
3. the various processes and causes that lead to the 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;
4. the mechanisms of actions of the various classes of pharmaceutical agents, including injectable agents, their interactions, along with their safe and effective use for the treatment of disease and conditions affecting the eye and visual system;
5. the structures and processes contributing to the development of refractive error and other optical or perceptual abnormalities of the visual system;
6. the optics of the eye and ophthalmic lens system (including spectacles, contact lenses, and low vision devices) used to correct refractive, oculomotor and other vision disorders;
7. visual development and vision function with respect to deviation and enhancement of conditions such as, but not limited to, strabismus, amblyopia, oculomotor, accommodation, and visual perception;
8. vision therapy and other rehabilitative methods used for the management of common visual disorders;
9. the psychosocial dynamics of the doctor/patient relationship;
10. the manner in which people of diverse cultures and belief systems perceive human health and illness and respond to various symptoms, diseases, and treatments;
11. the practice management structure and strategies as they pertain to various practice settings;
12. the critical elements of verbal and written communications and understanding of the need for clear and appropriate documentation of patient encounters;
13. the concepts of refractive surgery and its management;
14. the conscientious use of current best practices in patient care decision making;
15. a broad-based multidisciplinary understanding of patient care;
16. an appreciation for and a commitment to lifelong learning;
17. information management and technology in the delivery of eye and health care;
18. and an understand of and commitment to uphold the ethical obligations in The Optometric Oath.
Curriculum

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 covers 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 includes six (6) rotations through the Externship program, giving the student added experience in the management of eye diseases, as well as valuable experience in other optometric specialties.

In addition to the core course requirements, students must complete a minimum of three credit hours of approved elective courses during the first three years of their professional curriculum.

Four-Year Professional Degree (O.D.)†

Curriculum

<table>
<thead>
<tr>
<th>First Year Fall Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8010 Anatomy, Physiology and Disease Processes I</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8020 Geometric Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8030 Introduction to Optometry</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8040 Neuroanatomy</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8060 Biochemistry</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8090 Case Based Discovery for the Developing Clinician</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8350 Epidemiology</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Spring Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8090 Case Based Discovery for the Developing Clinician</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8110 Anatomy, Physiology and Disease Processes II</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8120 Ocular Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8140 Physical Optics and Photometry</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8160 Anatomy and Physiology of the Eye</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8180 Clinical Optometry I</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year Fall Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8220 Ophthalmic Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8230 Interpersonal Communications</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8240 Ocular Motility</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8250 Monocular Sensory Processes</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8260 Foundations of Ocular and Systemic Disease and Management I</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8280 Clinical Optometry II</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year Spring Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8320 Ophthalmic Dispensing</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8340 Binocular Vision and Space Perception</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8370 Foundations of Ocular and Systemic Disease and Management II</td>
<td>7</td>
<td>6</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8380 Clinical Optometry III</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8390 Specialty Clinic Laboratory</td>
<td>2</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8391 Clinical Topics in Contact Lens</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8392 Clinical Topics in Binocular Vision and Pediatric Optics</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8393 Clinical Topics in Low Vision</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8560 Public Health</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year Fall Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8500 General Clinic I</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>8520 Contact Lenses I</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8540 Binocular Vision Anomalies</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8550 Low Vision</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8570 Advanced Topics In Ocular and Systemic Disease Management</td>
<td>6</td>
<td>5</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8650 Geriatric Optometry</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year Spring Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8600 General Clinic II</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>8610 Environmental Vision</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8620 Contact Lenses II</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8630 Practice Management III</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8640 Pediatric Optometry</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8660 Contact Lens Specialty Clinic</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>8670 Ocular Assessment</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8680 Ophthalmic Lasers</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8690 Pediatric /Binocular Vision Specialty Clinic I</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
</tbody>
</table>

‡ Due to advances in the optometric profession, sequencing of courses may change. The courses listed above are subject to change through normal academic procedures. Refer to the addendum at the end of this bulletin for curriculum changes that may affect your program sequencing.

† Every two (2) lab hours and every two (2) clinic hours is equivalent to one (1) credit hour.
<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 1 UM-St. Louis</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8700</td>
<td>UM-St. Louis Pediatric/Patient Care</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>8710</td>
<td>UM-St. Louis Contact Lens Patient Care</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>8720</td>
<td>UM-St. Louis Eye Health Management Patient Care</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: Must enroll in 8700, 8710, and 8720 concurrently.

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 2 Institutional</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8780</td>
<td>External Rotation in Institutional Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 3 Ocular Disease</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8790</td>
<td>External Rotation in Ocular Disease Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 4 Intern</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8730</td>
<td>Optometric Center Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8750</td>
<td>East St. Louis Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8760</td>
<td>Harvester Eye Center Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8770</td>
<td>Community Service in Rotation in Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 5 Specialty</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8800</td>
<td>External Rotation in Pediatric/Binocular Vision Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8810</td>
<td>External Rotation in Contact Lens Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8811</td>
<td>External Rotation in Ophthalmic Surgical Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8812</td>
<td>External Rotation in Geriatric Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8813</td>
<td>External Rotation in Ophthalmic Sports Vision</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8814</td>
<td>External Rotation in Primary Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8815</td>
<td>External Rotation in Pathology and Treatment</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8816</td>
<td>External Rotation in Ophthalmic Laser Treatment</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8817</td>
<td>External Rotation in Rehabilitative Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8820</td>
<td>External Rotation in Low Vision Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 6 Elective</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8830</td>
<td>External Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8840</td>
<td>External Supplementary Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8850</td>
<td>Supplementary Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Required Courses</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8870</td>
<td>Practice Management IV</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8880</td>
<td>Clinic Seminar</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Elective Courses in the College of Optometry

- 8400 Directed Readings
- 8410 Directed Research
- 8420 Ocular Photography
- 8440 Clinical Applications of Current Topics in Visual Science
- 8470 Case Studies in Ocular Disease

Graduate Vision Science Courses Approved for Elective Credit*

- 6400 Sensory Processes and Perception
- 6401 Visual Optics
- 6402 Ocular Anatomy and Physiology
- 6403 Psychophysical Methods and Experimental Design
- 6404 Sensory Neuroscience
- 6405 Neuroanatomy
- 6406 Geometric Optics
- 6455 Visual Information Processing
- 6458 Noninvasive Assessment of the Visual System
- 6459 Introduction to Computer Programming for Vision Research
- 6470 Individual Studies in Vision Science
- 6490 Graduate Research in Vision Science
- 6497 Interdisciplinary Geriatric Care
- 6499 Current Topics in Optometry and Vision Science
The following 8000 level courses are taken in the Doctor of Optometry (O.D.) program. The numbers in parenthesis reference the previous course numbering system.

8010 Anatomy, Physiology and Disease Processes I (5)
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. 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.

8020 Geometric Optics (4)
Prerequisite: Consent of instructor. The principles of geometric 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.

8030 Introduction to Optometry (1)
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.

8040 Neuroanatomy (4)
Prerequisite: Consent of instructor. Detailed gross and microscopic anatomy of the human central nervous system with a special emphasis on the cranial nerves, nuclei, and the visual system.

8060 Biochemistry (3)
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.

8090 Case Based Discovery for the Developing Clinician (1)
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. Course may be repeated for credit.

8110 Anatomy, Physiology and Disease Processes II (5)
Prerequisite: Opt 8010. Continuation of Human Anatomy and Physiology and Disease Processes I.

8120 Ocular Optics (4)
Prerequisite: Opt 8020. The eye as an image forming mechanism, the schematic eyes, the optical role of the pupil, the retinal image and its evaluation. Nature, classification, and etiology of ametropia. Experimental models of refractive errors. Entoptic phenomena. Mechanism and optical aspects of accommodation.

8140 Physical Optics and Photometry (3)
Prerequisite: Optometry 8020 or consent of instructor. Basic photometric concepts, measurements of light levels, applications in ergonomics, visual and photographic optics. Physical optics including diffraction, interference, polarization, birefringence, and lasers.

8160 Anatomy and Physiology of the Eye (5)
Prerequisite: Opt 8010 and Opt 8060 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.

8180 Clinical Optometry I (5)
Selected tests for ocular assessment including case history, visual acuity, ophthalmoscopy, refraction, and binocular integration. The course format is two 75-minute lectures and two 2-hour laboratories.

8220 Ophthalmic Optics (4)
Prerequisite: Opt 8140, 8120, and 8150. 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, selecting and dispensing eyewear, management of a dispensary.

8230 Interpersonal Communications (2)
Prerequisite: Opt 8030. Principles of human interpersonal relationships. The enhancement of listening and verbal skills will be provided. Emphasis will be preparing the student to understand and manage the many human interpersonal relationships necessary in the practice of optometry.

8240 Ocular Motility (4)
Prerequisite: Opt 8040 or consent of instructor. The anatomy, physiology, neurology, measurement, characteristics, and control of the intra and extraocular system.
8250 Monocular Sensory Processes (5)
Prerequisite: Opt 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.

8260 Foundations of Ocular and Systemic Disease and Management I (3)
Prerequisite: Opt 8110. The first of a comprehensive, three semester course sequence. Topics will be discussed in a modular, system based approach. The course introduces students to disease and the organ systems they affect, clinical diagnoses, pharmacology on specified organ systems and optometric and medical management of ocular and systemic disease.

8280 Clinical Optometry II (5)
Prerequisite: Opt 8180. Continuation of clinical optometry. Patient care in the areas of refraction, binocular integration, perimetry, and bimicroscopy.

8320 Ophthalmic Dispensing (1)
Prerequisite: Opt 8220 Clinical experience in verification and dispensing of ophthalmic materials.

8340 Binocular Vision and Space Perception (4)
Prerequisite: Opt 8240, 8250 and 8280 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.

8350 Epidemiology (2)
A review of descriptive statistics, probability sampling, correlation, and prediction. The essentials of epidemiological study procedures and a discussion of the epidemiology of vision disorders.

8370 Foundations of Ocular and Systemic Disease and Management II (7)
Prerequisite: Opt 8260. A continuation of a comprehensive, systems based course sequence that introduces students to disease processes and the organ systems they affect, clinical diagnoses, pharmacology on specified organ systems and optometric and medical management of ocular and systemic disease. The laboratories will emphasize and augment important concepts introduced in the classroom environment.

8380 Clinical Optometry III (2)
Prerequisite: Opt 8280 Correlation and analysis of optometric data. Emphasis on diagnosis, prognosis, and therapy of visual problems.

8390 Specialty Clinic Laboratory (1)
Prerequisite: Opt 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.

8391 Clinical Topics in Contact Lenses (1)
Prerequisite: Opt 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.

8392 Clinical Topics in Binocular Vision and Pediatric Optometry (1)
Prerequisite: Opt 8280. This course presents clinical diagnostic and management skills for both pediatric patients and those with binocular vision anomalies. The course format is one 50-minute lecture per week.

8392 Clinical Topics in Low Vision (1)
Prerequisite: Opt 8280. This course presents clinical diagnostic and management skills for patients with low vision. The course format is one 50-minute lecture per week.

8400 Directed Readings (1)
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.

8410 Directed Research (3)
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.

8420 Ocular Photography (2)
Prerequisite: Consent of instructor. Optical principles and clinical techniques in photographing the internal and external eye and its adnexa. Includes laboratory exercises on use of the most common types of clinical cameras.

8440 Clinical Applications of Current Topics in Visual Science (2)
(Elective) Prerequisite: Consent of instructor. A seminar on the use of new discoveries in visual science in clinical optometry. Students will participate in selecting the topics, which will change from year to year, with the guidance of the instructor. The course will also include laboratory demonstrations of seminar topics.
8470 Case Studies in Ocular Disease (1)
Prerequisite: Opt 8370 and 8570. This course features discussion of current clinical eye care topics, with attention to ocular disease diagnosis and management. Advanced diagnostic techniques, pathophysiological mechanisms of disease, and current clinic patients will also be emphasized.

8500 General Clinic I (6)
Prerequisite: Opt 8380 and successful completion of all first and second year course work. The clinical examination and care of general clinic patients, along with the fitting and dispensing of lenses and frames.

8520 Contact Lenses I (3)

8540 Binocular Vision Anomalies (4)
Prerequisite: Opt 8310 and 8340 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.

8550 Low Vision (3)
The etiology, epidemiology, symptoms, signs, and course 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.

8560 Public Health (2)
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. The relationship of vision care to these topics is emphasized.

8570 Advanced Topics in Ocular and systemic disease and Management (6)
Prerequisite: Opt 8260 and 8370. The third semester of a comprehensive, systems based course sequence. Advanced topics in diagnosis as well as optometric and medical management of ocular and systemic disease will be discussed. The laboratories will emphasize and augment important concepts introduced in the classroom environment.

8600 General Clinic II (6)
Prerequisite: Opt 8500 and successful completion of all Fall semester third year course work. Same as General Clinic I.

8610 Environmental Vision (2)
This course considers the relationship of the eye and vision to all aspects of one's environment including home, work, recreation, and transportation. Emphasis will be placed on protecting the eye from injury and maximizing vision performance.

8620 Contact Lenses II (3)
Prerequisite: Opt 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.

8630 Practice Management III (3)
Prerequisite: Opt 8030 (506) and Opt 8230 (541). 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, and recall systems. The establishment, development, and management of an optometric practice from a business point of view. Legal developments, governmental relationships, legislation and the legislative process, malpractice, professional ethics, taxes, fee structures, insurance, and accounting methods.

8640 Pediatric Optometry (3)
Prerequisite: Opt 8380. 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.

8650 Geriatric Optometry (2)
(Same as Gerontology 6458.) 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.

8660 Contact Lens Specialty Clinic (1)
Prerequisite: Opt 8520 and successful completion of all Fall semester third year course work. The clinical examination and care of patients in the optometric specialty area of contact lenses.

8670 Ocular Assessment (1)
Prerequisite: Enrollment in General Clinic I or II. 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.
8680 Ophthalmic Lasers (1)
Principles and applications of lasers for ophthalmic use. Emphasis will be placed on demonstration where possible. Topics will include the principles, physics and safety concerns of ophthalmic lasers. Lasers used in retinal imaging, and in the care of glaucoma, cataract, refractive conditions, and cosmetic conditions will be discussed and demonstrated. Comanagement of patients requiring ophthalmic laser treatment will also be covered.

8690 Pediatric/Binocular Vision Specialty Clinic (1)
Prerequisite: Opt 8540 and successful completion of all Fall semester third year course work. The clinical examination and care of patients in the optometric specialty areas of binocular vision and pediatric vision.

8700 UM-St. Louis Pediatric/Binocular Vision Patient Care (3)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of patients in pediatric/binocular vision clinic 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 Opt 8710 and Opt 8720.

8710 UM-St. Louis Contact Lens Patient Care (3)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care in the contact lens clinic at the University of Missouri-St. Louis University of Eye Center. This course fulfills one of the clinic courses required for graduation. This course must be taken in conjunction with Opt 8700 and Opt 8720.

8720 UMSL Eye Health Management Patient Care (1)
Prerequisite: 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 Opt 8700 and Opt 8710.

8730 Optometric Center Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of patients at the University of Missouri-St. Louis Optometric Center. This course fulfills one of the clinic courses required for graduation.

8750 East St. Louis Center Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of patients at the East St. Louis Eye Center. This course fulfills one of the clinic courses required for graduation.

8760 Harvester Eye Center Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of patients at the Harvester Eye Center. This course fulfills one of the clinic courses required for graduation.

8770 Community Service Rotation in Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of patients at St. Louis area community health centers. This course fulfills one of the clinic courses required for graduation.

8780 External Rotation in Institutional Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of primary care patients at external sites approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

8790 External Rotation in Ocular Disease Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of patients with ocular disease at external sites approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

8800 External Rotation in Pediatric/Binocular Vision Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of pediatric/binocular 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.

8810 External Rotation in Contact Lens Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of contact lens 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.

8811 External Rotation in Ophthalmic Surgical Patient Care (7)
Prerequisite: Successful completion of all second & third year coursework. Comprehensive clinical care of Ophthalmic Surgical 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.

8812 External Rotation in Geriatric Patient Care (7)
Prerequisite: 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.
8813 External Rotation in Ophthalmic Sports Vision (7)
Prerequisite: 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.

8814 External Rotation in Primary Care (7)
Prerequisite: Successful completion of all second and third year coursework. Comprehensive clinical care of Primary Care 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.

8815 External Rotation in Pathology and Treatment (7)
Prerequisite: Successful completion of all second and third year coursework. Comprehensive clinical care in pathology and treatment of 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.

8816 External Rotation in Ophthalmic Laser Treatment (7)
Prerequisite: Successful completion of all second and third year coursework. Comprehensive clinical care in ophthalmic laser treatment of 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.

8817 External Rotation in Rehabilitative Patient Care (7)
Prerequisite: 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.

8820 External Rotation in Low Vision Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of low 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.

8830 External Rotation in General Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of a general population of optometric patients at external sites approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

8840 External Supplementary Rotation in General Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of general population of optometric patients at an external site approved by the College of Optometry’s Externship Council.

8850 Supplementary Rotation in General Patient Care (7)
Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of general population of optometric patients at the UM-St. Louis University Eye Center, UM-St. Louis Optometric Center, or the UM-St. Louis East St. Louis Eye Center.

8870 Practice Management IV (2)
Prerequisite: Successful completion of all first, second, and third year course work. Further in-depth discussion in practice management.

8880 Clinic Seminar (1)
Prerequisite: Successful completion of all first, second, and third year course work. 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.

8910 Topics in Geriatric Optometry (3)
Prerequisite: Opt 8910. This course will address concerns and options in providing optometric care to a geriatric population. New techniques, research, and public policy changes will be discussed to assist students in assembling a global perspective on delivering health care to a specific population.

8970 (591) Geriatric Patient Care Delivery (3-6)
Prerequisite: Consent of Geriatric Residency Instructors. Direct optometric patient care to a population that is largely geriatric. Emphasis will be on integrating specialty care available for these patients to provide comprehensive vision care. Two hours of direct patient care per week are required per hour of credit. In addition, the student will attend weekly supervisory meetings. May be repeated with consent of instructor for a total of 18 credits. Patient care will become more independent of direct supervision and the type of patients seen will be more varied with each repeat.

*If a student desires to waive a prerequisite for a given course, this request must be approved by both the instructor of this course and the Student Committee.
Admission, Application, Selection, Acceptance

Admission Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester</th>
<th>Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>English*</td>
<td>2 or 3</td>
<td></td>
</tr>
<tr>
<td>Biology (including laboratory)*</td>
<td>3 or 4</td>
<td></td>
</tr>
<tr>
<td>Physics (including laboratory)</td>
<td>2 or 3</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>2 or 3</td>
<td></td>
</tr>
<tr>
<td>Organic (including laboratory)</td>
<td>1 or 2</td>
<td></td>
</tr>
<tr>
<td>Mathematics**</td>
<td>1 or 1</td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Statistics</td>
<td>1 or 1</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>2 or 2</td>
<td></td>
</tr>
<tr>
<td>Liberal Arts*</td>
<td>2 or 2</td>
<td></td>
</tr>
</tbody>
</table>

*One semester (or one quarter) of Microbiology with laboratory is a requirement.
One semester of Anatomy or Physiology is recommended.

Courses may be taken and accepted for prerequisite course work AP (Advanced Placement) without a grade if the student receives a 320 or higher on the Reading Comprehension section of the OAT examination (see below, Admission Test) and a GPA of 3.0.

The College of Optometry uses a rolling admissions process. All courses used to satisfy the admission requirements must have been taken at an institution fully accredited by one of the Department of Education regional accreditation bodies. Specific prerequisite courses must be taken for a letter grade; they cannot be taken as an Audit or on a Pass/Fail or Satisfactory/Unsatisfactory basis. Applicants must have completed 90 semester or 135 quarter hours (the equivalent of three years of college education) prior to the start of classes. In order to process financial aid awards, it is strongly recommended that students complete all prerequisite courses the spring prior to admission. The applicant cannot apply more than 60 semester-hours or 90 quarter-hours, that were earned at a two-year institution, toward the credit-hour requirement.

Applicants holding a bachelor's degree will be given preference over applicants with similar academic credentials who do not have a degree. There is no requirement that a student major in a specific area. Applicants to the college come from a variety of undergraduate backgrounds, such as biological sciences, chemistry, psychology, education, and business.

Admission Test

All applicants are required to take the Optometry Admission Test (OAT). The OAT is now offered through computer sites. As the computerized version may be scheduled at any time, please plan to take the OAT by June of the year you plan to apply in order to be considered for early admission. Official test scores are acceptable for up to three years from the testing date.

Applicants are encouraged to take the examination by June of the year of application to the College of Optometry. If applicants wish to enhance their scores, the examination may be repeated. For an OAT application packet and additional information, contact:

Optometry Admission Testing Program
211 East Chicago Avenue
Suite 1846
Chicago, IL 60611
(312) 440-2693
http://www.opted.org

Application Procedures

The Admissions Committee begins to process applications on July 15 for the class entering the following year. An applicant's file will be considered complete and ready for consideration by the Admissions Committee when the following material has been received (Asterisked (*) items are processed by Centralized Application Service):

*1. Application and appropriate fee through Centralized Application Service;
2. supplemental application through UMSL with a $50.00 (U.S. dollars) non-refundable application fee submitted online (accepts credit card or check);
3. official High School and College transcripts followed by updated transcripts as they become available (Exception: graduates of international programs see deadline requirements for all transcripts);
4. official Optometry Admission Test (OAT) results must be released to UMSL;
5. three letters of recommendation which includes one letter of recommendation from an optometrist who is not related to you or a composite evaluation prepared by the pre-professional advisory committee at the educational institution the applicant is attending. A composite letter may be used in place of all but the required OD letter. Letters are sent electronically through the OptomCAS portal and may be e-mailed or electronically entered. Up to four letters may be sent to OptomCAS.

The Centralized Application Service may be entered through www.optomcas.org.

Official transcripts must be mailed from every college attended, regardless of whether or not credit was earned, once an applicant has been offered admission and that applicant has accepted our offer of admission.
(International students: transcripts must be submitted by the early application deadline of January 5.)

Letters of recommendation must be mailed directly to the Centralized Application Service center by the originator.
It is the applicant's responsibility to ensure all application materials are received by the Centralized Application Service center by February 15 (International students: transcripts must be submitted by the early application deadline of January 5.) to be considered for admission to the class entering in August of the same year. Facsimile (faxed) application material will not be accepted or acknowledged. Application material received after February 15 will not be evaluated for the class entering in August of the same year. To be considered for merit scholarships, there is an early enrollment deadline. All materials must be received by January 5, in order to be considered for the early application deadline. Applications received after that time will still be considered for admission but not additional awards e.g. merit scholarships, state seat contracts.

### Application Deadlines

**Early**  
(Scholarship considerations and state contract seats)  
Deadline: January 5. All materials must be received by 5:00 PM on this date to be considered.

**Final**  
Deadline: February 15. All materials must be received by this date to be considered.

### International Students

International students whose native language is not English and who have spent less than two of the last three years in an English-speaking country are required to submit scores from an internationally accepted standardized examination before a decision is made on admission.

To complete their credential file, applicants are required to furnish original and official transcripts by the early application deadline of January 5, from each school and college attended both in this country and abroad. The Educational Credentials Evaluators, Inc. or the World Education Services must evaluate all international school and college transcripts and their evaluation submitted as part of the application requirement. For information contact:

- **Educational Credentials Evaluators, Inc.**  
  Post Office Box 514070  
  Milwaukee, WI 53203-3470  
  (414) 289-3400  
  Fax: (414) 289-3411  
  E-mail: eval@ece.org  
  Web site: [http://www.ece.org](http://www.ece.org)

- **World Education Services**  
  Bowling Green Station  
  P.O. Box 5087  
  New York, N.Y. 10274-5087  
  (212) 966-6311  
  Fax: (212) 739-6100  
  E-mail: info@wes.org  
  Web site: [http://www.wes.org](http://www.wes.org)

The University of Missouri-St. Louis maintains an Office of International Student Services to assist applicants who have been offered admission. All new international students are required to attend a formal orientation program before matriculation. For more information, contact:

- **University of Missouri-St. Louis**  
  Office of International Student Services  
  One University Boulevard  
  St. Louis, MO 63121-4499  
  (314) 516-5229

### Selection Procedures

Applications are reviewed beginning in August with interviews scheduled and initiated starting in September. The College uses a "rolling admissions" process which allows qualified applicants to be admitted on an ongoing basis until the class is filled. Therefore, applicants are encouraged to apply as early as possible to ensure full consideration for admission.

The Admissions Committee has the responsibility to review and evaluate all applicants and select the best-qualified candidates. The committee considers: an applicant's overall grade point average, the grade point achieved in the sciences, any grade trend over the years in college, and the scores on the Optometry Admission Test. Concurrently, candidates are evaluated on less quantitative measures such as: extracurricular activities and interests, related or unrelated work experience, written narrative, and letters of recommendation.

Those applicants whom the committee feels to be most competitive will be invited for an on-campus interview. The on-campus interview facilitates an assessment of the applicant's communication skills, interests, motivation, and personal characteristics. In addition, the on-campus interview allows the applicant to tour the facilities, meet with currently enrolled students, present questions regarding financial aid and housing, and learn more about the University of Missouri-St. Louis and the College of Optometry. From this group of interviewed applicants, the entering class of approximately 44 students will be selected.

The policies of the University of Missouri-St. Louis and the College of Optometry comply with the provisions under those laws that forbid discrimination on the basis of race, color, religion, sex, sexual orientation, national origin, age, disability, or status as a Vietnam era veteran.
Admission Process

Notices of acceptance may be received as late as July of the year in which the students enter the program. If acceptance to the class is conditional, the terms of the condition must be completed prior to matriculation. Applicants who have indicated that degree requirements will be completed prior to matriculation, and who have been selected for admission, may receive a conditional offer of acceptance contingent upon completion of the degree.

Students offered admission have 15 days from the date on the offer of admission letter to make a required $200 acceptance deposit. The $200 deposit will be credited toward tuition when the student matriculates. The deposit is considered a non-refundable administration fee should the student not matriculate.

A certain number of applicants are placed on an alternate list. If an applicant who has been offered admission declines the offer, their position will be allocated to the next individual on the alternate list.

Notification of denial is sent by e-mail. If an applicant is interested in reapplying, they will need to reapply through the Centralized Application Service.

Immunization

The University requires that students born after 1956 to provide documented proof of immunity for measles and rubella, through current immunization records or disease documentation by a physician. Beginning with the Fall 2002 entering class, optometry students are required to show evidence of having the Hepatitis B immunization prior to matriculation.

Residency

Optometry students who do not meet the residency requirements must pay the nonresident educational fee according to the schedule outlined in the "Fees and Estimated Cost of Education" section of this Bulletin. A definition of "residency" is outlined in Tuition and Residency Rules, available in the cashier’s office (314-516-5151) or on the web at http://www.dhe.mo.gov/studentresidencyrequirements.shtml. Students are responsible for registering under the proper residency and paying the proper educational fees.

Questions related to residency requirements should be directed to:

Mr. Jerry Hoffman
University of Missouri-St. Louis
Residency Office
One University Boulevard
St. Louis, MO 63121
(314) 516-4973

Admission Guidelines for Entering First Professional Year Students

The College of Optometry supports the following guidelines recommended by the Association of Schools and Colleges of Optometry (ASCO):

1. Applicants may be offered an acceptance for admission at any time and required to place a deposit at any time.

2. An institution should not ask accepted applicants to relinquish their alternate status at other institutions prior to the applicant's enrollment.

3. All offers of admission made prior to May 15 of the year of matriculation should allow the applicant at least two weeks in which to respond. After May 15, offers of acceptance may require a response time of less than two weeks. A statement of intent should permit the applicant to withdraw if later accepted by a college that he or she prefers.

4. The acceptance deposit, less an administration fee as determined by the individual institution, should be refunded until at least May 15. The deposit should be credited toward tuition when the student matriculates.

5. The schools and colleges should encourage applicants accepted after May 15 to immediately notify and withdraw from colleges or colleges where a seat is being held.

Approved by the Board of the Association of Schools and Colleges of Optometry

June 1997

Pre-Optometry Programs

The University of Missouri-St. Louis offers a four-year program of study leading to the doctor of optometry degree; this professional degree is administered by the College of Optometry. It is one of only 20 currently accredited schools of optometry in the United States and the only one in the state of Missouri. This program, as a result, makes UM-St. Louis an ideal institution for pre-optometry education. Various programs are available for pre-optometry as noted below.

Students may pursue a traditional 4+4 program, which is a bachelor’s degree followed by the four-year graduate optometry program. In this case, students may pursue any bachelor’s degree, as long as the pre-optometry requirements are met in biology, chemistry, mathematics, physics, psychology and English.

Alternatively, the Department of Biology, the Department of Physics and Astronomy, and the Department of
Chemistry sponsors 3+4 Programs for the UM-St. Louis College of Optometry, for which a student may be admitted to the College of Optometry after completing three years (90 semester hours) of study in their respective majors and successful completion of the Optometry Admission Test (OAT). (See your specific department for undergraduate degree requirements.)

The Pierre Laclede Honors College and the College of Optometry also offer the Scholars Program, which allows a student to complete both the undergraduate and doctor of optometry degrees in seven years. To qualify for this program, a student must be a senior in high school; score a minimum composite of 27 on the ACT; and be accepted to the UM-St. Louis Pierre Laclede Honors College program. For more information about the Scholars Program, contact the Pierre Laclede Honors College, (314) 516-7769.

For the programs described above (Scholars or 3+4), the undergraduate degree is granted when the student satisfactorily completes the first year of the professional program and has met all of the conditions for the specific undergraduate degree for which the student has applied. 1) All general education requirements and all requirements for the biology or physics major, or other major, except electives, must be completed. 2) Any deficiency in required courses must be remedied with courses taken at UM-St. Louis within three years after entering the College of Optometry. 3) Up to 6 hours from the College of Optometry may be substituted for an undergraduate degree in Biology with approval of the Department of Biology. 4) Up to six hours is used to satisfy degree requirements in biology, and 14 hours in physics to complete the B.S. in Physics degree. For more information, contact the Department of Biology, (314) 516-6200 or the Department of Physics and Astronomy at (314) 516-5931. The Department of Chemistry offers a similar program, and may require summer research in order to complete the degree requirements for a B.A. or B.S. in Chemistry. For more information, please contact the Department of Chemistry and Biochemistry at (314) 516-5311.

In some cases, students are admitted to the optometry program without a degree.

Note: Math 1800, Analytical Geometry and Calculus I must be taken in the first semester for most 3+4 or Scholars Programs.
Fees & Estimated Cost of Education

Education Fees
All students enrolled in the University must pay educational fees based on either the schedule for Missouri residents or the schedule for non-residents. All optometry students will be required to pay the non-resident educational fee if they do not meet the University of Missouri residency requirements at the time of enrollment.

For current fees and costs*, please check http://www.umsl.edu/services/cashiers/fee_sch.htm and be certain to select appropriately optometry resident/nonresident.

*A Summer Session is required between the third and fourth professional year.

Other Required Fees
All students are required to pay the following fees each semester:

Information Technology Fee $12.20 per credit hour (no maximum); Student Facility, Activity, and Health Fee $34.89 per credit hour (up to the prescribed maximums of 6 credit hours for Summer and 12 credit hours for the Fall and Spring); Performing Arts Fee of $10 for the Fall and Winter/Spring and $5 for the Summer; and USA Today Fee of $2 for the Fall and Spring.

Parking Fee
All vehicles parked on campus require a parking permit. It is the responsibility of the student to be aware of the parking policies and procedures while using the lots at the University of Missouri St. Louis. The College of Optometry cannot be responsible for violations from students who do not purchase parking permits or adhere to the campus policies and procedures.

The parking fee is $18.00 per credit hour for all semesters ($288.00 for 16 or more credit hours). All fourth year students who are away on Externship rotation must pay a minimum of $18.00 per semester for parking.

Student Health Insurance (optional)
An Accident and Sickness Insurance plan is available to students and their dependents. Information concerning premiums and coverage is available upon request from University Health Services. Visit their web site at www.umsl.edu/services/health or call (314) 516-5671. For students registered at UM-St. Louis College of Optometry, health insurance is also available through the American Optometric Student Association. Visit the web site at http://www.studentinsurance.net/Public/ClientBrochures/2004_1849_1.pdf.

Late Registration Fee
Students registering after the close of the regular registration period must pay a $50.00 late registration fee.

The University reserves the right to modify by increase or decrease the fees charged for attendance and other services at the University, including but not limited to educational fees, at any time when in the discretion of the governing board the same is in the best interest of the University, provided that no increases can or will be effective unless approved by the governing board not less than thirty (30) days prior to the beginning of the academic term (semester, etc.) to which the fees are applicable and such increase does not exceed ten (10) percent over the fee level existing immediately prior to the increase, with all modification of fees to be effective irrespective as to whether fees have or have not been paid by or on behalf of a student prior to the effective date of the modification.

Personal Checks
Personal checks in payment of fees or other obligations to the University will be accepted only when the amount of the check does not exceed the amount due from the student. Any checks payable to the University which are returned unpaid will be assessed a $20 return check charge.

Delinquent Indebtedness
All delinquent indebtedness to the University must be cleared before transcripts or diplomas will be released or before the next registration period, if enrolled.

State Reciprocal Agreement
The College of Optometry currently has a State Reciprocal Agreement for residents of Kansas. This agreement permits the College of Optometry to admit up to three eligible Kansas residents in each entering class to receive the award (12 total in the College). The recipients of this award are charged the equivalent of Missouri educational fees. If more than the allowable number (typically two or three) Kansas residents are admitted to the entering class, the College of Optometry will select the recipients for this award based on a combination of grade point average, admission test scores, and the interview evaluations. The recipient(s) of the award will not be determined until all Kansas applicants have been reviewed. (Applications must be completed, however, by the early application deadline of January 5 to be considered.)

To apply for this award, applicants must be certified as a bona fide Kansas resident and meet financial need (FAFSA). Seats will not be offered until after FAFSA data is available. For Kansas residency certification, contact:
Additionally, Kansas residents accepting a seat are required to return to Kansas to practice following graduation or completion of a residency program.

**Nebraska Contract Agreement**

The College of Optometry currently has a State Contract Agreement for residents of Nebraska. This contract permits the College of Optometry to admit one eligible Nebraska resident in each entering class to receive the award. For detailed information about the contract and to be certified as a bona fide Nebraska resident, contact:

Dr. Richard J. Hoffmann  
University of Nebraska  
3835 Holdrege  
Lincoln, NE 68583  
(404) 472-0075

**Estimated Cost of Education**

There are numerous factors that must be considered when determining how much it will cost for a four-year optometric education. These include required fees, textbooks, equipment, and cost of living. Additionally, financial aid in the form of scholarships and assistantships should be considered.

Beginning in 1996, in an effort to provide financial assistance to students, Departmental Awards have been provided to all students. Although historical trends cannot predict future ones, the amount of departmental awards have increased substantially each year for the past five years.

Through the 2000-2001 academic year, departmental Awards equal to $1,600 per year for all residents and $3,400 per year for all non-residents were provided. While these awards have been provided in some form since the 2000-2001 academic year, they are reviewed annually.

For students who matriculated prior to 2006, the departmental awards are equal to $2,000/year for residents and KS Seat or Scholarship awardees, and $6,000/year for nonresidents. Additionally, for the 2006 summer semester, residents will receive $500 and nonresidents will receive $2,000.

For students who matriculate after August, 2006, departmental awards were combined with merit scholarships and these range from $250-$2,250 for residents and $500-$16,000 for nonresidents. If the student missed the January 5th deadline, it is possible that no monies were awarded. The average award was $1,916 for a resident and $9,992 for a nonresident.

The average debt for the Class of 2008 is $110,650 (with debt ranging $34,000-$180,000).

**Textbooks and Equipment**

<table>
<thead>
<tr>
<th>Required Textbooks</th>
<th>Required Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year Student</td>
<td>$1,200.00</td>
</tr>
<tr>
<td>2nd Year Student</td>
<td>1,200.00</td>
</tr>
<tr>
<td>3rd Year Student</td>
<td>1,000.00</td>
</tr>
<tr>
<td>4th Year Student</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Example of Fall Semester 2008 Fees for an average Nonresident First Year Student based on 20 credit hours without parking fee:

| Educational/Nonresident Fees | $16,681.60 |
| Information Technologies Fee | 244.00      |
| Student Facility, Activity and Health Fees | 418.68 |
| Performing Arts Fee | 10.00       |
| USA Today Fee | 2.00        |
| Total of Fees | $17,356.28 |

Less (Average**) Merit Scholarship | $5,825.00

Net amount to be covered by federal financial aid $11,532.28

*Text book and equipment figures are approximated.

**Average for all nonresident students entering Fall 08, whether receiving a merit scholarship or state seat, is $11,650 per year (n=25).
Financial Aid

The University of Missouri-St. Louis maintains an Office of Student Financial Aid to assist students with the cost of their education.

Financial assistance is available in the form of grants, loans, scholarships, and work-study. Funds for these programs are available from federal, private, state, and institutional resources. To apply for financial aid, students must complete a Free Application for Federal Student Aid (FAFSA). Preference will be given to those students who have completed the FAFSA by April 1. Preference means that the Student Financial Aid Office will begin awarding FWS (Federal College Work-Study), Federal SEOG (Federal Supplemental Educational Opportunity Grant) and Federal Perkins Loan funds. A completed financial aid application means that the Financial Aid Office has received an official Student Aid Report from the Federal Processing Center. Information about Federal loan programs and FAFSA are available at www.fafsa.ed.gov.

The Student Financial Aid Office maintains a Web site at www.umsl.edu/services/finaid, where students will find useful information along with the ability to contact the office electronically via e-mail. Also included is a scholarship directory that is updated annually.

To be considered for all university scholarships offered through the Financial Aid Office, a student must be accepted for admission.

Many state optometric associations and their auxiliaries offer scholarships and grants. Application is generally made directly to the state association or auxiliary and selection is generally made on the basis of state residence and other criteria. Information may be obtained by writing to the various state optometric associations and/or auxiliaries.

The College of Optometry will provide additional information about scholarships and the college’s Handbook of Loans, Scholarships, Grants, and Awards to applicants after being admitted. Many of the College’s scholarships are listed on the College Web site at http://optometry.umsl.edu/about/scholar.html.

Eligibility for Federal Aid

All recipients must meet the following general eligibility requirements:

- be enrolled at least half-time or accepted for enrollment;
- be working toward a degree or certificate;
- be a U.S. citizen or eligible non-citizen;
- be making satisfactory academic progress;
- not owe a refund on a Pell Grant or be in default on a Federal Education Loan;
- be registered for Selective Service (if required);
- have financial need (except for William D. Ford Direct Loan, formerly called Unsubsidized Stafford Loan).

Note: Eligible Non-citizen is a U.S. permanent resident who has an I-151 or I-1551 (Alien Registration Receipt Card). Students on an F1 or F2 student visa only, or on a J1 or J2 exchange visitor visa only, cannot receive federal student aid.

Application Process

To apply for federal aid, complete the Free Application for Federal Student Aid (FAFSA) and mail it to the federal processor in January or as soon as possible thereafter. For those applicants with Internet access, the FAFSA may be completed on the Web at www.fafsa.ed.gov. (Caution: Do not submit more than one application.) The University of Missouri-St. Louis code is 002519. Applications become available in most college and university Student Financial Aid offices after January 2.

In order to be considered for campus need-based programs (e.g., Perkins, Federal Work-Study), the FAFSA must be processed by the federal processor by the "priority" deadline of April 1. Applications filed thereafter will be considered on a "funds available basis." Late filers, in order to apply, must complete a Request form; this form is available in the University's Office of Student Financial Aid.

Note: Independent optometry students, who wish to be considered for the full range of financial aid, must provide parent information. Specifically, the Health Professional Student Loan (HPSL), and Scholarship for Disadvantaged Students (SDS) require parent information from independent students.

At the present time, the following financial assistance programs are available:

Federal Work-Study (FWS)

The FWS program provides jobs for those students who are enrolled at least half-time and have demonstrated need for financial assistance in meeting their education expenses. The maximum amount is $2,500 per academic year.

The FWS program provides jobs on campus at a wage per hour at least equal to the current minimum wage. Eligible students may be employed for 40 hours per week during the summer and no more than 20 hours per week during the academic year.
Veterans Benefits

Veterans eligible to receive monthly benefits or widows and children of deceased veterans who are interested in applying for benefits should contact the University’s Veterans Office, 269 Millennium Student Center, for information.

Veterans enrolled at the University must achieve special academic standing. All veterans should read the current Handbook of Educational Benefits, published by the Office of Veteran Affairs. This booklet explains the regulations and procedures that apply to them. Veterans are responsible for abiding by these special regulations.

Financial Aid Appeal

The University of Missouri-St. Louis has an established financial aid appeals procedure. An aid applicant can raise questions or appeal the offer, or lack of an offer, of financial aid if not satisfied. Refer to Financial Aid Appeals in the Appendix.

Loans

Perkins Loan
The Perkins Loan program is for students who are enrolled at least half-time and have demonstrated extraordinary need for financial assistance in meeting educational expenses. Graduate or professional degree-seeking students may borrow up to $40,000. The $40,000 includes Perkins Loan Funds a student may have borrowed for undergraduate study.

A Perkins Loan bears a 5% interest on the unpaid balance, beginning nine months from the date the borrower ceases to be at least a half-time student. The repayment period can be extended up to ten years.

Health Professions Student Loan (HPSL)
The HPSL program is for students to pursue a course of study in specified health professions by providing long-term low interest loans (5 percent). The maximum loan amount cannot exceed the cost of attendance. HPSL award levels are subject to availability of funds.

Direct PLUS Loans for Graduate and Professional Degree Students
Graduate and professional degree students can borrow a Direct PLUS Loan to help cover education expenses.

The terms and conditions applicable to PLUS Loans for parents also apply to PLUS Loans for graduate and professional students. These terms and conditions include: 1) determination that you (the applicant) do not have an adverse credit history; and 2) a fixed interest rate of 7.9% (2010-11) for Direct PLUS Loans.

William D. Ford Federal Direct Student Loan Program
The aggregate amount allowed between the Subsidized and Unsubsidized is $189,125.00; this includes loans borrowed for undergraduate study. The interest rate is variable and may change each July 1. There is a period of 10-30 years to repay.

Subsidized
Award amounts are based on need; the maximum award per year is $8,500. The government pays the interest during in-college, grace, and deferment periods.

Unsubsidized
Award is not need based; the maximum award per year is $16,000. The borrower is responsible for the interest during in-college, grace, and deferment periods.

Arkansas Optometric Association Student Loan Fund
Arkansas resident students who have completed two years of optometry college may apply for a low interest rate loan through the Arkansas Optometric Association.

Iowa Loans
The Iowa Optometric Foundation offers three (3) types of loans to students who are residents of Iowa: 1) Long-term loans with a maximum of $4,000 per year; 2) Emergency loans with a maximum of $300; and, 3) Loans for beginning optometrists in the state of Iowa with a limit of $5,000.

Ohio Loans for Ohio Students
Students who are residents of Ohio may apply for a loan that has a maximum 15-year repayment. The maximum amount is the cost of attendance less financial aid received.

Hattie M. Strong Foundation Student Loan
The Hattie M. Strong Foundation offers a loan to students entering their final year of study. This loan has a maximum amount of $2,500 and is interest free.

College of Optometry Emergency Student Loan
The College has a short-term loan program through which a currently enrolled student may borrow up to $1,500 per semester to meet emergency expenses; the loan must be repaid by the end of the current semester. To request a loan, a student must complete and submit a form to the College of Optometry Office of Student Services; this form is available in the Office of Student Services. Caution: this loan carries a 12% interest rate charged by the University.
**Scholarships, Fellowships, and Grants**

Many scholarships and awards are available from many sources. The College of Optometry cannot assume responsibility for listing a scholarship or award which is no longer available. As of the publication of this document, these were known to exist. Not all scholarships and awards are administered by the College of Optometry or the University of Missouri-St. Louis. Students must contact the outside entity for those scholarships and awards administered outside the university or college.

**Scholarship for Disadvantaged Students (SDS)**
The SDS program is for students to pursue a course of study in specific health professions by providing funds to students with exceptional financial need who are from disadvantaged backgrounds. SDS award levels are subject to availability of funds.

**Indian Health Scholarship (IHS)**
Through the Department of Health and Human Services Public Health Service Act, the National Health Service Corps (NHSC) offers a competitive scholarship to any U.S. citizen or national who is enrolled or accepted for full-time enrollment in a nationally accredited college or training program of a participating discipline (including optometry), eligible for Federal employment either under the Civil Service or in the Commissioned Corps of the U.S. Public Health Services, and free of other service obligations which might conflict with the service obligations of the NHSC. Special preference is given to eligible American Indian and Alaskan Native applicants who are certified by the Indian Health Service for such status. The scholarship recipient receives full tuition, required fees and a monthly stipend.

**Air Force Scholarship**
Sponsored by U.S. Armed Forces (Air Force)
Award: 100% tuition, fees, expenses, and monthly stipend.
Eligibility: Be a U.S. citizen and physically qualified for an Air Force commission; be currently enrolled in or accepted for the next enrolled class of a College of Optometry; and have completed the Optometry Admission Test (OAT).

**Alberta Scholarship**
Sponsored by Alberta Association of Optometrists
Award: Up to three (3) $500
Eligibility: Resident of Alberta

**Alumni Scholarship**
Sponsored by the College of Optometry Alumni
Award: Variable, as available.
Eligibility: Any enrolled student.

**(A.H.) Basman, O.D. Bursary**
Sponsored by the Manitoba Optometric Society
Award: $500
Eligibility: Manitoba resident.

**Army Scholarship**
Sponsored by U.S. Armed Forces (Army)
Award: 100% tuition, fees, expenses, and monthly stipend.
Eligibility: Be a citizen of the U.S.; be enrolled in or have a letter of acceptance from an accredited college or college of optometry located in the U.S. or Puerto Rico; and meet the prescribed eligibility criteria for appointment as a commissioned officer.

**Barnes St. Peters Hospital Scholarship**
Sponsored by Barnes St. Peters Hospital Auxiliary
Award: $500
Eligibility: 3.0 GPA and reside in St. Charles County, Missouri

**Bellingrath Scholarship in Optometry**
Sponsored by Dr. and Mrs. Edward Bellingrath Scholarship Fund administered through UMSL College of Optometry
Award: Variable
Eligibility: Demonstrated student leadership and civic responsibility; must be nominated by a faculty member, a staff member or an alumnus/a.

**Beta Sigma Kappa Research Grant**
Sponsored by Beta Sigma Kappa
Award: Not to exceed $1,000.
Eligibility: Currently enrolled student (preferably above the 1st year); student does not have to be a member of Beta Sigma Kappa. A faculty advisor is required to oversee the project and to assure that a final report is submitted to BSK by the student.

**Brazelton Memorial Award**
Sponsored by the American Academy of Optometry, Low Vision Section
Award: $500 and a commemorative plaque
Eligibility: Any enrolled student.

**Essilor of America Student Grant Award**
Sponsored by Essilor of America, Inc. competitive entry through UMSL College of Optometry
Award: $500 per college plus entry into national judging
Eligibility: Third or fourth year student.

**(Dr. Monty) Friedow Memorial Scholarship**
Sponsored by the South Dakota Affiliate to the American Foundation for Vision Awareness
Award: $1,000
Eligibility: Resident of South Dakota.

**(Helen L.) Gadell Scholarship in Optometry**
Sponsored by the Helen L. Gadell Scholarship Fund administered through UMSL College of Optometry
Award: Variable
Eligibility: Full-time optometry student beginning the third or fourth year of the program; must have a minimum cumulative grade-point average of 3.0; demonstrate financial need as determined by the Free Application for Federal Student Aid (FAFSA).
(Dr. Seymour) Galina Grant
Sponsored by American Optometric Association
administered through UMSL College of Optometry
Award: $2,500
Eligibility: Beginning fourth year student; member in good standing of the American Optometric Student Association (AOSA).

(Mary M.) Gilbert Scholarship in Optometry
Sponsored by the Mrs. Mary M. Gilbert Scholarship Fund
administered through UMSL College of Optometry
Award: Variable
Eligibility: Minimum grade point average of 3.0 and a member of the American Academy of Optometry and/or the American Optometric Association.

(Tole) Greenstein Memorial Papers Award
Sponsored by Optometric Extension Program Foundation, Inc.
Award: $500
Eligibility: Optometry student.

(Gary) Gross Scholarship
Sponsored by American Optometric Foundation in memory of Dr. Gary Gross
Award: (2) $2,500
Eligibility: Any fourth year student attending an accredited college or college of optometry who is a resident of Illinois, Iowa, Michigan, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Wisconsin.

Hawaii Scholarship
Sponsored by Hawaii Optometric Association
Award: $500
Eligibility: Resident of Hawaii.

International Order of the King's Daughters and Sons Health Careers Scholarships
Sponsored by International Order of the King's Daughters and Sons
Award: Variable
Eligibility: Applicants may be from any health care field.

The William R. Jackson Jr., O.D. Memorial Scholarship
Sponsored by Dr. William R. Jackson Jr. Estate
Administered through the College of Optometry
Award: Variable
Eligibility: Currently enrolled; resident of Missouri at time of matriculation.

The William R. Jackson Jr., O.D. Memorial Scholarship
Sponsored by Dr. William R. Jackson Jr. Estate
Administered through the Missouri Optometric Foundation in cooperation with the UMSL College of Optometry
Award: Variable
Eligibility: Currently enrolled fourth year student; resident of Missouri; based on external rotation site selected by the Missouri Optometric Foundation.

Kansas Optometric Foundation and the Kansas Foundation for Vision Awareness Scholarships
Sponsored by the Kansas Optometric Foundation and the Kansas Foundation for Vision Awareness
Award: Two (2) $1,000 awards
Eligibility: Accepted or enrolled students and resident of Kansas

Will G. Kelley Memorial Scholarship
Sponsored by the National Optometric Association
Award: $1,000
Eligibility: Scholastic achievement, honors and awards for scholastic and community activity, communication skills, extracurricular activities, and financial need.

Dr. Robert A. Koetting Scholarship
Sponsored by Dr. Robert A. Koetting and friends of Dr. Robert A. Koetting Scholarship Fund administered through UMSL College of Optometry
Award: Variable
Eligibility: Beginning fourth- year optometry student; minimum grade-point average of 3.5; member of the American Academy of Optometry and/or the American Optometric Student Association.

Merit Scholarship
Sponsored by the College of Optometry
Award: Variable
Eligibility: Entering first year students are offered a merit scholarship based on his or her OAT section scores and undergraduate cumulative GPA. In order to keep this scholarship, the student must maintain a GPA above 2.5 in the optometry program.

Merit Minority Scholarship
Sponsored by the College of Optometry
Award: Variable
Eligibility: Entering first year students are offered a merit scholarship based on his or her OAT section scores and undergraduate cumulative GPA. In order to keep this scholarship, the student must maintain a GPA above 2.5 in the optometry program.

Michigan Scholarship
Sponsored by American Foundation for Vision Awareness Michigan Affiliate
Award: (3) $700
Eligibility: Resident of Michigan; completion of application in 3rd year; 'B' average or better; must demonstrate need of financial assistance; must sign letter of intent to practice ethical optometry according to the AOA rules of practice.

Minnesota Scholarship
Sponsored by American Foundation for Vision Awareness-Minnesota Affiliate, Inc.
Award: $1,000
Eligibility: Resident of Minnesota; entering first year student.
(Dr. Leslie) Mintz Scholarship
Sponsored by the Dr. Leslie Mintz Scholarship Foundation
Award: $500 to $1,000
Eligibility: Resident of New Jersey; enrolled full-time at an accredited college of optometry.

Missouri Affiliate Scholarship
Sponsored by American Foundation for Vision Awareness-Missouri Affiliate, Inc.
Award: $1,500
Eligibility: Must have completed two years of optometry college; must have been a resident of Missouri for the past eight (8) years; cannot be a previous scholarship winner.

National Eye Institute Predoctoral Research Fellowship (Summer Research Program)
Sponsored by National Eye Institute of the National Institutes of Health
Award: Variable
Eligibility: Currently enrolled optometry students attending University of Houston, University of Missouri-St. Louis, Northeastern State University, Pennsylvania College of Optometry, or Southern California College of Optometry.

Navy Scholarship
Sponsored by U.S. Armed Forces (Navy)
Award: 100% tuition, fees, expenses, and monthly stipend.
Eligibility: Student must be fully accepted for the next entering class; be a citizen of the United States; be of good moral character; and must meet the physical requirements for a Navy commission.

Nebraska Scholarship
Sponsored by American Foundation for Vision Awareness-Nebraska Affiliate
Award: $1,000
Eligibility: Any 1st, 2nd or 3rd year optometry student who is a Nebraska resident and is not employed by an optometrist, an optometric organization or an optical firm, or related to any person in the above categories.

(Julius F.) Neumueller Award in Optics
Sponsored by the American Academy of Optometry
Award: $500 and reimbursement for air (coach) travel to the annual meeting of the American Academy of Optometry.
Eligibility: Any student pursuing a Doctor of Optometry degree in a college or college of optometry.

New Jersey Scholarship
Sponsored by the New Jersey Chapter of the American Academy of Optometry
Award: $2,500
Eligibility: Resident of New Jersey or an individual with strong ties to New Jersey.

Optometric Extension Program Senior Student/Recent Graduate Research Grant
Sponsored by Optometric Extension Program
Award: $500
Eligibility: Senior or recent graduate conducting research concerning behavioral aspects of vision and clinical applications.

Optometric Student Scholarship
Sponsored by Optometric Society of Greater Kansas City, Inc.
Award: $500
Eligibility: Resident of greater Kansas City area; 2nd, 3rd or 4th year student not on academic or disciplinary probation.

Petry-Lomb Scholarship/Research Grant
Sponsored by Rochester New York Optometric Society
Award: $1,000
Eligibility: Optometry or graduate student in an accredited college or college of optometry who has financial need as determined by application and interview; in good academic standing; and a sincere desire to practice optometry in upstate New York after graduation.

(Hilda L.) Rand Scholarship
Sponsored by the Auxiliary to the Maine Optometric Association
Award: $500
Eligibility: Resident of Maine.

Rhode Island Scholarship
Sponsored by Auxiliary to the Rhode Island Optometric Association
Award: To be announced.
Eligibility: Resident of Rhode Island; first year student.

Salierno Scholarship
Sponsored by American Optometric Foundation
Award: $1,000 annually.
Eligibility: First year student pursuing an O.D. degree; second, third or fourth year student pursuing O.D. degree but must have 3.0 (“B”) cumulative GPA in optometry program.

Saskatchewan Scholarship
Sponsored by the Saskatchewan Optometric Foundation and the Saskatchewan Association of Optometrists
Award: $500 per year.
Eligibility: Resident of Saskatchewan.

Secretary's Award for Innovation in Health Promotion and Disease Prevention
Sponsored by U.S. Department of Health and Human Services
Award: $250 to $3,000
Eligibility: Student must be enrolled full or part-time in a higher degree health profession educational program in a college that is affiliated, through a participating association, with the Federation of Associations of Colleges of the Health Professions.
**Silhouette Scholarship**  
Sponsored by Silhouette Optical, Ltd.  
Award: $1,000  
Eligibility: Third professional year student.

**Skeffington/Alexander Award**  
Sponsored by Optometric Extension Program Foundation, Inc.  
Award: $1,000  
Eligibility: Any student.

**(Dr. A.M.) Skeffington Memorial Scholarship**  
Sponsored by friends of Dr. A.M. Skeffington and Dr. Robert L. Mobley Scholarship Fund administered through UMSL College of Optometry  
Award: Variable  
Eligibility: Fourth year optometry student with demonstrated interest in pursuing the specialty of binocular vision, vision perception, and vision therapy.

**Student Leadership Award**  
Sponsored by the American Optometric Association entry through UMSL College of Optometry  
Award: $1,000  
Eligibility: Third year student in good standing in the American Optometric Student Association and the American Optometric Association and in good academic standing at a college/college of optometry.

**Student Travel Fellowship**  
Sponsored by American Academy of Optometry  
Award: $500 Travel Grants.  
Eligibility: Student enrolled in O.D. or residency program or enrolled in vision science graduate program.

**Travel Award**  
Sponsored by Alcon Laboratories  
Administered through the Heart of America Chapter of the American Academy of Optometry  
Award: Variable  
Eligibility: Third year student and member of the American Academy of Optometry.

**Vision Service Plan Scholarship**  
Sponsored by Vision Service Plan administered through UMSL College of Optometry  
Award: (2) $2,000 and plaque  
Eligibility: Awarded to fourth year students who have demonstrated excellence in primary eye care, are in the top half of their class and have a commitment to enter the independent practice of optometry.

**Wal-Mart Scholarship**  
Sponsored by Wal-Mart administered through UMSL College of Optometry  
Award: Three (3) $1,000 awards  
Eligibility: Second, third, or fourth year student, minimum grade-point average of 3.0, employed as an associate of Wal-Mart Vision Center or an affiliated optometrist.

**Washington Affiliate Scholarship**  
Sponsored by American Foundation for Vision Awareness-Washington Affiliate  
Award: $500  
Eligibility: Resident of Washington.

**Wisconsin Scholarship**  
Sponsored by Wisconsin Optometric Association and the Auxiliary to the Wisconsin Optometric Association  
Award: $250 scholarship and $500.  
Eligibility: Resident of Wisconsin for at least three years; must have completed one year of optometry college.

**Women in Optometry (WinO) Scholarship**  
Sponsored by the WinO Scholarship Fund administered through UMSL College of Optometry  
Award: approximately $500 annually  
Eligibility: Preference is given to a female, but it is awarded to the entering student demonstrating the most financial need. It is awarded in the second semester of the student's first year.

**Wyoming Scholarship**  
Sponsored by Auxiliary to the Wyoming Optometric Association  
Award: $500  
Eligibility: Resident of Wyoming; completed first professional year.
Graduation Awards

Graduating students receive a number of awards at the Honors Banquet that honor their academic and clinical achievements. Among these are:

**Alcon Fourth Year Case Study Award**
Sponsored by Alcon Laboratories, Inc.
Award: $1,000
Eligibility: Awarded to the graduate who has written the best case study determined to be the most qualified entry that used an Alcon product.

**A. M. Skeffington Memorial Scholarship Award**
Sponsored by the A. M. Skeffington and friends of Dr. Robert Mobley Scholarship Fund
Award: Plaque
Eligibility: Awarded to a graduate for excellence in binocular vision anomalies, pediatric optometry, binocular vision and space perception, as well as an interest in the principals of Dr. Skeffington and the Optometric Extension Program.

**Clinical Binocular Vision/Vision Therapy Award**
Sponsored by the College of Optometry
Award: Certificate
Eligibility: Awarded to a graduate in recognition of clinical performance in the area of binocular vision/vision therapy.

**Clinical Excellence Award**
Sponsored by the RGP Lens Institute
Award: Plaque and RGP Diagnostic Lens Set
Eligibility: Awarded to a graduate in recognition of clinical performance in the area of binocular vision/vision therapy.

**ESSILOR Award for Excellence in Ophthalmic Optics**
Sponsored by Essilor of America, Inc.
Award: Corneal Reflection Pupilometer
Eligibility: Awarded to the graduate who has demonstrated academic and technical excellence in the field of ophthalmic optics and ophthalmic dispensing.

**Silver Medal Award**
Sponsored by Beta Sigma Kappa International Optometric Honor Fraternity
Award: Silver Medal
Eligibility: Awarded to a graduate for outstanding scholarship.

**Vistakon Award of Excellence in Contact Lens Patient Care**
Sponsored by Vistakon
Award: $1,000 and plaque.
Eligibility: Awarded to the graduate who provided outstanding clinical contact lens patient care as indicated by his or her knowledge of the subject matter and demonstrated clinical skills in managing contact lens patients.
Office of Student Services

The primary function of the College of Optometry Office of Student Services is to administer all student services and address student needs. More specifically, the office staff:

- administers the College's student recruitment and admissions programs;
- prepares and distributes the Schedule of Courses;
- coordinates registration;
- provides academic counseling;
- maintains all student records and the College's academic records;
- provides students with housing information;
- coordinates placement activities;
- processes applications to state boards;
- administers the Tutorial Service;
- provides debt management activities;
- assists with activities such as the Honors Banquet and Commencement;
- advises student organizations;
- acts as an information source for the student body;
- provides other services as specific needs arise.

The Office of Student Services publishes the College of Optometry Bulletin, the Optometry Student Handbook, the Handbook of Loans, Scholarships, Grants, and Awards, the Optometry Housing Reference Guide, and the Surv-Eye-Val Guide, that is distributed to students.

In addition, the Office of Student Services will assist undergraduate advisors in the selection of appropriate pre-optometry courses at their institution and coordinates "Optometric Workshops" during the year for prospective students.
Student Services

The University and the College offer numerous services to assure the students’ physical and emotional well-being while pursuing the professional program. All services are included in the UM-St. Louis Student Academic Planner and/or the (optometry) Student Handbook. These publications are given to entering students during the orientation program. Some of the services offered by the University and the College are:

Millennium Student Center

The Millennium Student Center is the location of the Women’s Center, University Bookstore, Food Service, Student Activities offices, Student Government offices, The Current student newspaper, and various meeting rooms and study lounges. The Center is also the location of Financial Aid, Health Services, and the Cashier. Banking and copying services are also available.

Emergency Motorist Assist

As a service to motorists on campus, an emergency vehicle operates 7am-11pm, Monday through Thursday and 9am-5pm on Friday to assist in unlocking car doors when keys have been locked inside, jump-starting cars with dead batteries and securing outside towing service in the event major repair is needed. 516-5155.

Emergency Phones

Emergency phones on campus provide a direct line to the campus police. They may be utilized to report such problems as injury and car trouble, and are located at various sites on campus and near most major parking areas.

Parking

All vehicles parked on campus require a parking permit. The parking fee is $18.00 per credit hour for all semesters ($288.00 for 16 or more credit hours). All fourth year students who are away on externship rotation must pay a minimum of $18.00 per semester for parking.

Failure to comply with traffic regulations may subject students to disciplinary action, payment of an additional fee, and the denial of the privilege to operate a motor vehicle on campus. Copies of Traffic Regulations for the University of Missouri-St. Louis are available at UM-St. Louis Institutional Safety and the Cashier’s Office. The College of Optometry cannot take responsibility for the payment of penalties in the event that students violate these policies.

MetroLink Pass Program

The University of Missouri-St. Louis has purchased for its students a prepaid pass program with Bi-State Development Agency. Beginning Fall semester 2010, students enrolled in a course that is assessed the Student Facility, Activity and Health Fee will be eligible to receive one (1) Metro pass regardless of credit hours taken. As the cost for the passes will be included in student fees, no additional charge will be assessed to the student when picking up the pass from the Cashier’s Office. The pass can be used on all MetroLink and Bi-State buses in metropolitan St. Louis (St. Louis County, the City of St. Louis, and the Illinois counties of Madison and St. Clair) when classes are in session.

To participate in the program, students must have an official University of Missouri-St. Louis student photo ID with a current semester decal and a valid MetroLink pass. Decals are available at the Cashier’s Office, 284B Millennium Student Center, upon payment of tuition and fees. Replacement for lost or stolen Metro passes is limited to one per term at a cost of $25.00.

Campus Shuttles

UM-St. Louis operates a campus shuttle for students when classes are in session. Students may use this service free of charge. The shuttles stop at numerous locations on the North and South Campuses. Schedules and routes are posted at various locations across campus. The shuttle schedule can be viewed at http://www.umsl.edu/~transportation/transportation/campus_shuttle.html.

Bookstore

The Bookstore is located in the Millennium Student Center and is headquarters for ordering textbooks and supplementary reading materials. In addition to textbooks, popular hardback and paperback offerings and other books for enjoyment and learning are available; the Bookstore can order any book in print. The Bookstore also has gift items, cards, insignia items, and college supplies. 516-5763 or http://www.umslbookstore.com/home.aspx.

Information Technology Services

The Office of Information Technology Services provides microcomputer and mainframe support for your academic needs. There is no additional charge for use of these facilities. Non-credit short courses are offered in the fall and spring semesters that provide hands-on experience. 516-6000 or www.umsl.edu/technology.
Student Computing Services

UM-St. Louis provides a wide array of computing services. Student computing services are funded through the Instructional Computing Fees. These fees support eight open access computing laboratories.

There are Windows NT, Windows 3.1, Macintosh, and UNIX workstations available. All of the labs provide laser printing and all are staffed with student lab assistants who can provide assistance in usage of the machines and with selected software applications.

In addition, a Student Resource Center has special hardware and software to meet additional needs of students. The resources in this room include a color scanner, a color printer, special multi-media software, and a portable projection unit. The equipment in this room can be reserved by contacting the supervisor of the Student Computing Labs.

Child Development Center

The Child Development Center is a campus-based child care center serving the UM-St. Louis and surrounding communities. It is the intent of the Center to provide high quality children's and parent programs, staff development and teacher training, and serve as a site for child study/research. The Center, located in the South Campus Classroom Building of the South Campus, provides full and half-day care for children who range in age from six weeks to five years. A summer program for college-age children five to 12 years old is also available.

Child care fees vary according to the age of the child and the attendance schedule. The Center phone number is (314) 516-5658.

Parents are advised to call well in advance of needs, as there are usually long waiting lists for the daytime program.

Health and Fitness Facilities

The facilities available in the Mark Twain Building are numerous and varied to meet the needs of almost every athletic interest. The building includes the athletic and physical education departments and all indoor intercollegiate and intramural-recreational activities.

The indoor swimming pool is available to all members of the University community for daily open recreation. Other areas of interest in the Mark Twain Building include an indoor running track, new fully equipped weight room/fitness center, an aerobics fitness center, saunas and whirlpool, four courts available for handball and racquetball on a reservation basis, and a training room and locker rooms for both men and women. Lockers in both the men's and women's areas may be checked out to students, faculty, staff, and alumni on a semester basis. In order to obtain additional information regarding locker room services, check with the attendant on duty.

The largest single area of the Mark Twain Building is the gymnasium, which has a seating capacity of 4,700 when all of the portable bleachers are utilized. When the bleachers are retracted, the gymnasium includes three basketball courts on the main floor, as well as one court on each of the deck areas, one floor level above the main basketball court. Both the main gym floor and the deck areas can be used for such activities as volleyball and badminton plus a wide range of other activities found in the University's comprehensive program of intramural and recreational sports.

In addition to the indoor facilities, the UM-St. Louis athletic complex contains approximately six acres of outdoor space including soccer, baseball, and softball fields, six tennis and two outdoor handball courts, and an intramural/recreational playfield. Also available is a 1.5 mile "Fit" Trail which winds through campus and a new "Fit" Court located west of the building.

University Health Services

University Health Services offers first-aid, general health consultations, and referral services. Blood pressure checks and screening tests for vision and hearing are done routinely. Free pamphlets on various health matters are also available. University Health Services also offers health education and screening programs throughout the year.

Handicapped Parking Permits are issued by University Health Services upon presentation of a Medical Certificate verifying a disability. In addition, a regular parking sticker and car license number are necessary in order to process an application for Handicapped Parking.

Brochures, applications, and claim forms for the Student Accident and Sickness Insurance Plan are available at University Health Services.

University Health Services is located in the Millennium Student Center and is open 8:00 am-9:00 pm, Monday through Thursday, and 8:00 am-5:00 pm on Friday. Evening hours are in effect only when evening classes are in session. 516-5671 or www.umsl.edu/services/health/

Drug and Alcohol Prevention Program

Pursuant to the Drug-Free Colleges and Communities Act Amendments of 1989, the University of Missouri-St. Louis is required to establish a drug and alcohol prevention program for its students and employees. A biennial review of this program will be done to determine its effectiveness, to implement changes to the program if they are needed, and to ensure the University's disciplinary sanctions are consistently enforced.
Standards of Conduct

University of Missouri regulations prohibit the unlawful possession, use, distribution and sale of alcohol and illicit drugs by University students and employees on University-owned or controlled property and at University-sponsored or supervised activities.

Legal Sanctions

Local, state, and federal laws also prohibit the unlawful possession, use, distribution, and sale of alcohol and illicit drugs. Criminal penalties for violation of such laws range from fines up to $20,000 to imprisonment for terms up to and including life.

University Discipline

Violation of these University of Missouri regulations can result in disciplinary action up to and including expulsion for students and discharge for employees.

Health Risks

Specific serious health risks are associated with the use of illicit drugs and alcohol. Some of the major risks are listed below.

Alcohol and Other Depressants (barbiturates, sedatives, and tranquilizers): Addiction, accidents as a result of impaired ability and judgment, overdose when used with other depressants, damage to a developing fetus, heart and liver damage.

Marijuana: Addiction, panic reaction, impaired short-term memory, increased risk of lung cancer and emphysema (particularly in cigarette smokers), impairment of driving ability.

Cocaine: Addiction, heart attack, seizures, lung damage, severe depression, paranoia, psychosis. Similar risks are associated with other stimulants, such as speed and uppers.

Hallucinogens (acid, LSD, PCP, MDMA, etc.): Unpredictable behavior, emotional instability, violent behavior, organic brain damage in heavy users, convulsions, and coma.

Narcotics (heroin, Demerol, Morphine, Codeine, etc.): Addiction, accidental overdose, risk of hepatitis and AIDS from contaminated needles.

Inhalants (gas, aerosols, glue, nitrites, etc.): Loss of consciousness, suffocation, damage to brain and central nervous system, sudden death, nausea and vomiting, nosebleeds, impaired judgment.

Resources

A variety of resources exist for drug or alcohol counseling, treatment, or rehabilitation programs. For detailed information concerning these resources available from the University and/or community agencies, students, employees, and faculty may contact the offices below. Such referrals will respect individual confidentiality. The UM-St. Louis Drug and Alcohol Prevention Program is described in a brochure. To obtain the brochure and more information, contact Counseling Service, 427 Social Sciences and Business Building, 516-5711; University Health Services, 125 Millennium Student Center, 516-5671; Office of Human Resources, 211 General Services Building, 516-5804; or Vice Chancellor for Academic Affairs, 407 Woods Hall, 516-5361.

Smoke-Free Campus Policy

Effective June 1, 1991 smoking is prohibited throughout the University of Missouri-St. Louis campus.

To assist smokers, Environmental Health and Safety offers non-smoking clinics held on an ongoing basis in conjunction with the American Lung Association. These clinics are offered at no cost. This approach has been used by several large institutions and corporations that have successfully established smoke-free environments.

All members of the campus community are responsible for upholding this policy. Anyone who wishes to enroll in the non-smoking clinics should call (314) 516-6306.

Housing

The University of Missouri-St. Louis offers on-campus housing for students; residence hall and apartment space is available. Housing is available during the academic year and summer session. On-campus housing provides on-site laundry facilities, mail delivery, and shuttle service. A variety of educational and social programming is offered, and students are encouraged to be active members of the residential and campus community.

The College, through the Office of Student Services, also assists students in locating off-campus housing consistent with their needs and desires. The College maintains up-to-date information on available apartments, houses, and rooms, maintains a listing of optometry students who wish to share housing, and publishes the Housing Reference Guide.

Since housing is such an important issue, time is taken during the applicant's visit to the college for the personal interview to discuss the individual needs of the applicant related to housing. After an applicant has been accepted for admission, the necessary information is obtained to assist the student in locating and securing appropriate housing.
Placement
The University, through Career Services, helps students to develop, implement, and evaluate job search strategies. In addition, the College of Optometry coordinates Placement Service such as assistance with writing a CV or resume and assistance in networking skills.

Upperclass Student Advisory Program
The program was instituted in 1981 as a voluntary program for incoming students to help alleviate problems and stresses related to transition into the professional college program and in most cases, the stresses of moving to a new city.

The entering student is matched with a senior student who is available to answer questions and give general assistance. This program also provides an opportunity for the entering student to become acquainted with students in the program prior to the first day of classes.

New Student Orientation Program
An orientation program is held during the week prior to the beginning of classes for the Fall Semester to introduce students to the administration and faculty and to acquaint them with college policies, procedures, and services offered by the University and College. All entering students are required to attend this two-day program.

Tutorial Service
The College administers the Tutorial Service through the Office of Student Services. Tutorial sessions can be individual or in a group; tutors are faculty-approved and there is no charge to the student for the service.

Counseling
The University's Counseling Service offers free, non-academic professional assistance to students and their families. Counseling can be done individually, with a spouse, or in a group.

Services to Students with Disabilities
The University of Missouri is committed to equal educational opportunities for qualified students without regard to a disabling condition. The University, therefore, will take necessary action to ensure that no otherwise qualified student with a disability is denied access to any particular course or educational program. Such action includes an assessment of the student's abilities and an evaluation of the particular course or program.

International Student Services
The Office of International Student Services provides and coordinates services for international students, including visa and immigration matters, information requests, non-academic advising, initial campus arrival, and social activities.

Veteran Affairs
The Veteran Affairs Office serves as liaison between students and various government offices to provide information on educational benefits, privileges and responsibilities relating to Veteran Administration benefits.

A certifying official is available to answer questions and process official paperwork.

Veterans are certified to the Veteran Affairs Regional Office (VA) beginning with the date of initial registration, and regularly until the expected completion date of the VA approved program or degree. Veteran students must promptly inform the certifying official of any changes in status which might affect benefits. Failure to report such changes can result in overpayments and other complications in receipt of benefits.

Veteran students are expected to attend classes, perform academic duties as assigned by instructors and adhere to academic policies. Failure to do so will result in reports to the VA of unsatisfactory progress, which may result in discontinuance of benefits. Veteran students who cease attending, but do not officially withdraw from class or from the University, will be reported as not making satisfactory progress. If enrollment status is altered in any way, the VA will be notified and an overpayment may be charged against the veteran.

Minority Affairs
The College is active in the recruitment and retention of individuals coming from underrepresented ethnic minority groups.

The College has a number of characteristics that makes it an ideal place for minority students to attend. One is the number of minority faculty who has been an important source of support for current and former minority students. Another ideal characteristic is the small class size (44 students for each class) which allows for more individualized interaction between the students and faculty.
Student Activities/Organizations

Campuswide Student Government

Students are involved in most levels of decision making on the campus, including the Student Association, Senate, and special committees and boards within the individual colleges and departments. All students are members of the campus wide Student Association, which is designed to work toward full student participation in all aspects of university life, university affairs, and policy-making. It represents the student body in all facets of university governance and provides services to the campus community.

Student Organizations

There are more than 100 recognized student organizations offering UM-St. Louis students opportunities to enrich their college education through extra-curricular activities. They include social fraternities and sororities, honor societies, religious and fine art groups, those serving special constituencies (i.e., minority students, international students) the student newspaper, curriculum-oriented and recreational groups, and athletic support organizations (i.e., cheerleading). All of the recognized student organizations follow the principles and procedures established by the University to prevent discrimination and to assure maximum freedom to students.

Optometry students, through professional and honor societies, have many opportunities to participate in social activities, serve the profession and College, and promote professional attitudes and behavior.

American Academy of Optometry (AAO), American Optometric Association (AOA), and the Missouri Optometric Association (MOA)

Students enrolled in the professional program are eligible for student membership in the American Optometric Association (AOA), the Missouri Optometric Association (MOA), and other state optometric associations in states where the student anticipates to practice. Student membership usually provides the student with an opportunity to receive the organization’s publications and to attend meetings.

American Optometric Student Association (AOSA)

The AOSA is the only official student organization of the American Optometric Association. The purpose of the AOSA is to enhance the visual welfare of the public, to contribute to the education and welfare of optometry students and to improve the student societies of each optometry college.

The national structure of AOSA consists of an executive council made up of four elected national officers and a board of trustees composed of one student from each of the 17 schools and colleges of optometry in the United States.

AOSA communities, functioning at national, regional, and local levels, provide opportunities for participation in such areas as education, professional liaisons, public health, minority recruitment, national affairs, and financial aid.

Every year the AOSA holds a National Congress. These congresses provide educational classes and an opportunity to meet students from other schools and colleges of optometry.

AOSA also publishes the Foresight, a national student newspaper that reports on activities at all colleges and individual and collective student opinions on current optometric issues.

American Optometric Student Association—St. Louis (AOSA—St. Louis)

All optometry students enrolled in the University of Missouri-St. Louis College of Optometry are eligible for membership in the student optometric association, which is affiliated with the American Optometric Student Association; the college chapter is referred to as AOSA-St. Louis. Through this organization, students become involved in local and national optometric activities. AOSA provides an environment for the cultivation of professional leadership skills, and members have organized and participated in a variety of community service activities, including community health screenings and vision care to residents of nursing homes, convalescent hospitals, and mental institutions.

AOSA-St. Louis publishes the Eye Opener, a news bulletin.

Beta Sigma Kappa-St. Louis (BSK-St. Louis)

BSK is the only international honor society for optometry students. It is designed to further optometric education by recognizing achievements and providing grants for student research.

College of Optometrists in Vision Development (COVD)

Students enrolled in the professional program are eligible for student membership in COVD. Student membership provides the student with the organization’s publication and the opportunity to attend the annual meeting. COVD is an international organization dedicated to the study and promotion of the developmental aspects of patient care.
Fellowship of Christian Optometrists (FCO)
The purpose of FCO is to encourage Christian optometry students to become involved in mission work, which combines eye care and the furtherance of the Gospel of the Lord. This may be achieved by bearing witness to the Lord in one's usual environment such as the work place or an educational institution.

Gold Key Honor Society
The purpose of the Gold Key Honor Society is to recognize upper-class students who have demonstrated an outstanding professional and ethical attitude through leadership and service.

Kansas Optometric Student Association (KOSA)
The KOSA is the UMSL Student chapter of the KOA. The KOSA mission is to provide dissemination of information vital to optometry students seeking to practice in Kansas and to promote the practice of optometry in Kansas.

Missouri Optometric Student Association (MOSA)
MOSA is the student chapter of the Missouri Optometric Association. The mission of the MOSA is to provide ongoing information concerning the importance of individual support of the Missouri Optometric Association's activities and the advancement of the optometric profession to optometry students. In addition, the MOSA will establish a student political body that will provide legislative support for the optometric profession in Missouri, assist the MOA when needed at conference and vision screenings, and acquaint Missouri residents and non-residents with Missouri optometrists.

National Optometric Student Association-St. Louis (NOSA-St. Louis)
NOSA is the student chapter of the National Optometric Association whose membership is predominantly minority optometrists. NOSA-St. Louis strives to uphold the goals of the NOA through vision screenings, recruiting minority students into optometry, and encouraging retention of minority students in optometry. Membership is open to all optometry students.

Society for Advancement of Independent Optometry (SAIO)
SAIO advanced the idea of independent optometry and private practice through externally funded speakers of interest to students on the topics around owning and maintaining a private practice.

Student Volunteer Optometric Services to Humanity (SVOSH)
SVOSH is a student chapter of the Volunteer Optometric Services to Humanity, an international organization of optometrists providing free vision care to people in impoverished nations. Used eyeglasses are collected, cleaned, straightened, and catalogued. Students participate in missions with various state VOSH chapters which include practicing optometrists, opticians, and other volunteers.
**Academic Policy**

**Positive Work and Learning Environment**

The University of Missouri is committed to providing a positive work and learning environment where all individuals are treated fairly and with respect, regardless of their status. Intimidation and harassment have no place in a university community. To honor the dignity and inherent worth of every individual—student, employee, or applicant for employment or admission—is a goal to which every member of the university community should aspire and to which officials of the university should direct attention and resources.

With respect to students, it is the university’s special responsibility to provide a positive climate in which students can learn. Chancellors are expected to provide educational programs and otherwise direct resources to creative and serious measures designed to improve interpersonal relationships, to help develop healthy attitudes toward different kinds of people, and to foster a climate in which students are treated as individuals rather than as members of a particular category of people.

**College of Optometry Code of Conduct**

The College of Optometry faculty and administration are committed to the enforcement of policies necessary to discourage academic dishonesty by students. A lack of integrity toward the educational process lowers the morale of other students, deceives the student and instructor and may have a profound effect upon one’s ability to become licensed.

While the faculty and administration believe that the vast majority of our students have the integrity necessary to maintain good ethical conduct, it is also understood that some may be driven to improve their performance through extreme measures. Therefore, in order to decrease the tendency toward deceptive academic performance, the faculty and administration will implement and enforce policies to discourage academic dishonesty by students.

Students enrolled in the College of Optometry assume an obligation to conduct their behavior in a professional manner, compatible with the University function as an educational institution.

Refer to the UM-St. Louis Code of Student Conduct published in the Appendix.

**Credit Hours**

The University credit unit is the semester hour, which represents a subject pursued one period weekly for one semester of approximately 16 weeks or for a total of approximately 16 periods for one term. Generally, a course valued at three semester hours meets for three periods weekly for one semester; a two-credit course meets for two periods a week for a semester, and so on. Normally, the lecture or recitation period is fifty minutes long and the laboratory period one hour and fifty minutes. The number of credit hours is in parentheses after each course title. If the credit is variable, to be fixed in consultation with the instructor, it is shown as (1-15).

**Non-Clinical Grading Criteria**

The following grading criteria are used by the faculty and will be followed by the faculty Student Committee in recommending management of students in academic difficulty.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
<tr>
<td>DL</td>
<td>Delayed</td>
</tr>
<tr>
<td>EX</td>
<td>Excused</td>
</tr>
<tr>
<td>NR</td>
<td>Not Reported</td>
</tr>
</tbody>
</table>

Faculty have full discretion in using full-letter grades, plus/minus grades, or any combination of full-letter and plus/minus grades. The student's grade point average is computed by dividing the total quality points (number of credit hours for a course, multiplied by the grade value received) by the number of hours taken (excluding grade-modified hours).

The College of Optometry does not recognize a "D" grade for courses taken for degree credit; and for a student enrolled in a patient care course. Therefore, any grade lower than a "C-" will be recorded as an "F" and have "0" grade points.

The Satisfactory/Unsatisfactory (S/U) and Pass/Fail (P/F) grade options are not available to students taking core courses at the College of Optometry level. Only elective courses used to satisfy the three (3) credit hours approved elective course, may be taken as "S/U" or "P/F."
Delayed Grade

Delayed grades indicate that a student has already completed a substantial portion of the course work but a portion of the required course work remains incomplete, most likely due to illness or a family emergency. Students enrolled in the College of Optometry have two semesters to complete the necessary work or the grade automatically becomes “F.” (Summer Session is not counted as a semester.) The arrangements for completing a delayed grade must be an agreement between the faculty member and the student. An instructor may require work to be completed earlier than the maximum time allowed by college policy.

Grade Point Average (GPA)

All courses taken at UM-St. Louis figure into the calculation of the transcript GPA, including courses that may not be part of the professional program. However, only those courses required for the professional program figure into the calculation of the professional degree GPA. Students must maintain a cumulative professional degree GPA of 2.5 (on a 4.0 scale) in order to remain in good academic standing. All attempts of a given course will factor into the calculation of the GPA and remain on the transcript with the grade(s) earned.

Time Limitations

All of the required courses during the first six (6) semesters of first course enrollment and all required courses for the O.D. degree must be completed within six (6) years after the first course enrollment.

Clinical (Patient Care) Grading Criteria

A grade of "A" reflects performance that is consistently above expected levels. A grade of "B" reflects performance judged to meet expected levels for a student's clinical experience. A grade of "C" is considered below expected performance. Students receiving a "C" grade will have their continued clinical privileges reviewed by a committee of the faculty. The College of Optometry does not recognize a "D" grade for a student enrolled in a patient care course; and for courses taken for degree credit. Therefore, any grade lower than a "C-" will be recorded as an "F" and have "0" grade points. If a grade of "F" or a "DL" (delayed) grade is received in any third or fourth year course, clinical privileges will be revoked. Reinstatement of privileges will be determined after evaluation by a committee of the faculty.

Clinical Privileges

Full clinical privileges will be granted to those students who have successfully completed the first and second year professional curriculum and passed the appropriate clinical proficiency examinations. Thereafter, continuing clinical privileges will be assessed after each succeeding semester. Reinstatement of lost clinical privileges will be determined after evaluation by a committee of the faculty. The College of Optometry does not recognize a "D" grade for a student enrolled in a patient care course; and for courses taken for degree credit. Therefore, any grade lower than a "C-" will be recorded as an "F" and have "0" grade points. If a grade of "F" or a "DL" (delayed) grade is received in any third or fourth year course, clinical privileges will be revoked. Reinstatement of privileges will be determined after evaluation by a committee of the faculty.

Academic Promotion and Management of Students in Academic Difficulty

Academic promotion and management of students in academic difficulty is the responsibility of the Dean, based on recommendations from the faculty Student Committee.

The faculty Student Committee will make recommendations on the management of students in academic difficulty based upon established guidelines. However, each management decision will be considered individually and prevailing circumstances may justify a recommendation that deviates from these guidelines.

Guidelines

1. Probation
   Any student who receives a failing grade, or whose professional GPA (semester or cumulative) falls below a 2.5 will be placed on academic probation. The student will remain on probation for one academic semester. Any failing grades received during the probationary period would constitute grounds for dismissal from the professional program. The cumulative GPA must be above 2.5 by the end of the probationary semester in order for the student to maintain normal progress through the curriculum. Continued academic performance below 2.5 would be grounds for further disciplinary action up to and including dismissal from the professional program.

2. Failed Course
   If a student fails a course in any semester of the program, and is not dismissed from the program, the student will, unless there are special circumstances, restart the semester the following year and retake all courses in the semester where the failing grade occurred, except the courses in which the student earned a grade of B- or better.
3. Dismissal
A student is dismissed from the College of Optometry on the recommendation of the faculty Student Committee and concurrence of the Dean. Students subject to dismissal are invited to meet with the Student Committee before a recommendation is made to the Dean. Dismissal letters will be sent from the office of the Dean with a copy sent to the Office of Student Services. Grounds for dismissal from the College of Optometry include: two or more failing grades, a failing grade while on academic probation, or a cumulative GPA below 2.50 at the end of a one semester probationary period. Academic dishonesty of any form may be considered grounds for dismissal. Issues of academic dishonesty are subject to the UM-Collected rules 200.010 and 200.020. (http://www.umsystem.edu/ums/departments/gc/rules/programs/200/).

Grades/Graduation Requirement
All courses taken for credit in the professional program must be passed with a "C-" or better in order for a student to qualify for graduation. The College of Optometry does not recognize a "D" grade for courses taken for degree credit; and for a student enrolled in a patient care course. Therefore, any grade lower than a "C-" will be recorded as an "F" and have "0" grade points. Furthermore, in order to qualify for graduation, a student must be in good academic standing and the cumulative professional GPA must be 2.5 or higher. Students must submit evidence to the Office of Student Services that they have taken the 3 part NBEO examinations prior to graduation. Such evidence shall include a copy of the score report received from NBEO.

To assure graduating at the end of a specific semester, all work for that semester and any delayed grades from previous semesters must be completed with the grades sent to the Office of Student Services no later than the official date for submission of final semester grades.

Course Waivers
All optometry courses listed in the college's Bulletin must be taken for credit unless written authorization of a course waiver is received from the Chairperson of the Curriculum, Instruction, and Educational Policy Committee. Students requesting a course waiver must complete and submit a Course Waiver Request form to the Office of Student Services. The written request should include a detailed justification for the course waiver. Waiver requests must be received by the end of the first week of classes.

The committee will then collect and review all information pertinent to the waiver request and convey this information to faculty members responsible for the course in question. Based upon the recommendation of the faculty members involved, the Curriculum, Instruction, and Educational Policy Committee, together with these faculty members, will decide as to the appropriateness of the waiver request, and the committee chairperson will communicate that decision to the student who submitted the request.

Guidelines used in considering a waiver request are as follows:
1. The student must have completed a course of reasonably similar content.
2. The course used in substitution for the course the student is attempting to waive must have been passed with a letter grade of A or B from an accredited institution.
3. The substitute course must have been completed within the last three years.
4. Any student who is requesting a course waiver and has been found to qualify on the basis of the above three criteria will be required to pass a proficiency examination covering the subject matter.

Curriculum Changes
Periodic curriculum changes within the College of Optometry may occur, in which case the Curriculum, Instruction and Educational Policy Committee recommends whether or not the academic program of currently enrolled Students requires alteration.

Prerequisite courses within the optometric curriculum may be altered and/or waived upon consent of the Curriculum, Instruction, and Educational Policy Committee.

Elective Course Requirement
Beginning with the Class of 2013 and all future classes, the three credit hour elective course requirement is discontinued. Students in the Classes of 2011 and 2012 must still complete a minimum of three credit hours of approved elective courses during the course of their professional curriculum. Additionally, fourth year students must complete three elective Externship courses. Conditions for an approved elective are:

1. The course must be transcript-quality and must be taken for credit.
2. The request to substitute a course from outside of the college must have been received in advance of the course offering.
3. The student must complete and submit an Elective Course Substitute to the Office of Student Services; this form is available from the Office of Student Services.
4. The request must receive approval by a combination of representatives from the Curriculum, Instruction, and Educational Policy Committee and the faculty Student Committee.
5. If a student has chosen to fulfill the entire elective hour requirement with course work (as opposed to directed readings or directed research), it is
expected that the student will take at least one (1) hour for the elective credit requirement with the College of Optometry. Therefore, most undergraduate courses taken to fulfill the College's elective requirement will be awarded two (2) hours toward the elective requirement even if that course is rated for more credit hours on the student's transcript. Approved electives in the College of Optometry may be found on page 23.

Dean's List/Dean's List with Honor

First-, Second-, and Third-Year Students
At the end of the fall and spring semesters, the College of Optometry will send a letter of commendation to students who were enrolled full-time with a grade point average (GPA) for the semester as follows:

- 3.500-3.799 Dean's List
- 3.800-4.000 Dean's List with Honor

Fourth-Year Students
At the end of the spring semester, the College of Optometry will send a letter of commendation to students who were enrolled full-time with a cumulative grade point average (GPA) as follows:

- 3.500-3.799 Dean's List
- 3.800-4.000 Dean's List with Honor

Graduation with Honors

The selection of students to be accorded this honor will be based on the cumulative grade-point average at the end of the fall semester of the student's fourth year as follows:

- 3.500-3.799 Dean's List
- 3.800-4.000 Dean's List with Honor

Grade changes processed after the closing date of the fall semester will not be considered.

Leave of Absence

Students who are forced to interrupt their studies should request a leave of absence from the University. In consultation with the Director of Student Services, students should define the program modifications the leave of absence requires. Requests should indicate the reason for leaving and the expected date of return to the University.

Withdrawal from the University

Withdrawal from the University is arranged through the Director of Student Services. Students leaving before completion of the semester or session without formally withdrawing are given grades of "F" in all courses.

Transcripts

The University of Missouri-St. Louis will furnish transcripts of credits to a student upon written request. Transcripts are furnished to students' parents, guardians, or other parties or institutions only if students have filed written consent with the University.

Requests for transcripts by organizations either financially supporting a student or with fee compensation programs are not honored unless the student has filed a consent form with the University, authorizing the release of such information.

Requests should be made directly to the Office of Transcripts and Records in the Millennium Student Center.

Commencement Exercises

A student who satisfactorily completes all four years of the professional curriculum will be eligible to receive the Doctor of Optometry degree. Doctor of Optometry degrees are conferred at the University's Spring (May) Commencement Exercises.

Retention

The attrition rate for students enrolled in the College of Optometry averaged 4% over the last five years. This figure represents total attrition, not only attrition resulting from academic difficulty. Most of those students who do not complete the professional program do so for various personal reasons rather than for academic difficulty. However, if a student does get into academic difficulty, a variety of institutional resources are available to that student, including tutorial assistance paid for by the institution or special assistance from the faculty, and a modified (five year) program of instruction can be designed for the student if necessary.

Transfer Students

The Association of Schools and Colleges of Optometry (ASCO) discourages transfers from one optometry college to another. However, it can be done, but only under unusual circumstances.

In order for the University of Missouri-St. Louis College of Optometry to consider a transfer request, a student must meet the following criteria:

- be in good academic and disciplinary standing at the transferring institution;
- meet all current admission requirements;
• submit a letter from the chief executive officer of the transferring institution stating that the applicant is in good academic standing and eligible to continue;

• submit a formal application along with the required ($50) application fee;

• provide a letter stating the specific circumstances surrounding the request for transfer;

• provide four (4) letters of recommendation;

• provide official transcripts of all collegiate work completed, including that taken at the transferring institution;

• provide official scores from the Optometry Admission Test.

Decisions on transfer applications are made by the Admissions Committee and the Student Committee. Factors considered include: available space, admission requirements, reason for transfer, appropriateness of courses completed to the academic level to which transfer is requested and personal attributes of the applicant.

Confidentiality Policy

The College of Optometry abides by all guidelines and procedures to implement the University of Missouri policy on student records developed from The Family Educational Rights and Privacy Act of 1974.

Refer to the UM-St. Louis Confidentiality Policy published in the Appendix.
Graduate Studies

Graduate Degrees

The Master of Science program provides research-oriented training beyond that offered in the professional program in optometry. Many optometry colleges require that applicants for faculty positions hold an M.S. or Ph.D. degree as well as an O.D. degree. Additional employment possibilities for individuals with M.S. degrees are found in industry and in public and private research foundations.

The Ph.D. program prepares students as research professionals in vision science. Employment opportunities are available in college or university teaching and research, in research institutes, and in industry. Within academic optometry, individuals with both O.D. and Ph.D. degrees are in high demand as faculty members.

Vision Science

Vision Science is a multidisciplinary area concerned with the study of normal and anomalous vision. The goals of this program in Vision Science are to train the next generation of researchers in clinical and basic vision science, to conduct research, and to educate faculty for colleges of optometry. Students will be required to integrate basic skills in vision science with focal studies in an area of research emphasis.

This program will emphasize research aimed at new treatments and cures for vision disorders, as well as research in basic mechanisms of visual functions. The College of Optometry offers both an M.S. degree and a Ph.D. degree. Students may apply to the Graduate College for admission to either the M.S. or the Ph.D. program.

Admission Requirements

Students must have the appropriate background for graduate training in vision science and appropriate undergraduate courses for their anticipated research emphasis. Applicants must have a bachelor's degree from an accredited college or university within the United States or from an equivalent institution outside of the United States. In order to be admitted as regular graduate students, applicants must have a grade point average of at least 3.0 in their overall undergraduate work, in their undergraduate major, and in any post-baccalaureate academic work. Students must arrange for transcripts to be submitted from all post-secondary academic work and to have at least three letters of recommendation sent by faculty members at previously attended colleges and universities. Students must also submit Graduate Record Examination (GRE) scores (verbal, quantitative, and analytic). Applicants to the M.S. program must have combined scores on the verbal and quantitative sections of at least 1000; applicants to the Ph.D. program must have combined scores of at least 1100. In addition, students from countries where English is not a primary language must submit Test of English as a Foreign Language (TOEFL) scores of 550 (paper based), 213 (computer based), or 80 (internet based) or better. All materials and scores must be submitted by March 1 if an applicant wishes to be considered for financial assistance for the Fall semester. Earlier applications are encouraged.

The Graduate School Online application is located at: http://www.umsl.edu/divisions/graduate/admissions/application-form.html.

Further information about the graduate program can be obtained from:

University of Missouri - St. Louis
College of Optometry
Office of Student Services
One University Boulevard, Marillac Hall 317
St. Louis, MO 63121-4400

Master of Science in Vision Science
(M.S.)

Degree Requirements

The M.S. degree requires 30 semester hours of course work, including the core courses. At least 24 of these hours will normally be taken from courses offered by the College of Optometry with no more than 10 of these in Vision Science 6490, Graduate Research in Vision Science. Each M.S. student will be required to teach at least two semesters in areas determined by the Graduate Committee in Vision Science.

The Core Courses for this program are:

Vis Sci 6400, Sensory Processes and Perception
Vis Sci 6401, Visual Optics
Vis Sci 6402, Ocular Anatomy and Physiology
Vis Sci 6403, Psychophysical Methods and Experimental Design
Vis Sci 6404, Sensory Neuroscience

Special Topics, Individual Studies, and Advanced Topics courses in Vision Science are also offered.

Each M.S. student must also complete a thesis based on research conducted during the program. The thesis must be approved by a committee of at least three members of the graduate faculty, at least two of whom must be from the graduate faculty in Vision Science.
Doctor of Philosophy in Vision Science (Ph.D.)

Degree Requirements

The doctoral degree requires 60 semester hours of course work, including the core courses. Each Ph.D. student will also be required to demonstrate proficiency in a foreign language, computer language, advanced statistical methods, or another acceptable tool skill. The tool skill and level of proficiency must be selected in advance in consultation with the Graduate Committee in Vision Science. Students will be required to teach at least two semesters in areas determined by the Graduate Committee in Vision Science.

Written qualifying examinations will be offered at the beginning of each semester and regular summer session. Full-time students must attempt qualifying examinations before beginning their third year of study. Students must declare their intent to take the examinations at least one month prior to the beginning of that semester or summer session.

The preparation of the dissertation will be supervised by a dissertation committee which will be appointed by the Graduate Dean upon the recommendation of the Director of Graduate Programs in the College of Optometry. Input from the student's advisor will be solicited by the Director prior to finalization of the recommendation by vote of the Graduate Faculty. An oral examination of the written dissertation proposal will be conducted by the Committee. A public oral defense of the completed written dissertation is also required.

The Core Courses for this program are:

- Vis Sci 6400, Sensory Processes and Perception
- Vis Sci 6401, Visual Optics
- Vis Sci 6402, Ocular Anatomy and Physiology
- Vis Sci 6403, Psychophysical Methods and Experimental Design
- Vis Sci 6404, Sensory Neuroscience

Special Topics, Individual Studies, and Advanced Topics courses in Vision Science are also offered.

Course Descriptions

The following 6000-level courses may be taken in the Master of Science or Doctor of Philosophy programs in Vision Science.

6400 Sensory Processes and Perception (3)
Prerequisite: Consent of instructor required for graduate students not in Vision Science. Current views on the encoding of various aspects of the visual stimulus (intensity, space, time, and wavelength) that give rise to the perceptions of brightness, contour, motion, and color will be considered in this course. The psychophysical tools available to examine visual encoding will be emphasized. Other topics will include binocular vision and depth perception, information processing approaches to visual pattern recognition, and the similarities and interactions of the visual system with the other sensory modalities.

6401 Visual Optics (3)
Prerequisite: Opt 6406, Opt 8020, or consent of instructor. This course deals with the optical properties of the eye. Included is a review of general optics including physical optics, paraxial and nonparaxial geometric optics, image quality, radiometry and photometry, and optical instrumentation. Topics in visual optics will include schematic eyes, measurement of the parameters of the eye, accommodation, retinal image size, refractive errors, visual axes, spectral absorption by the ocular media, and the optical performance of the eye.

6402 Ocular Anatomy and Physiology (3)
Prerequisite: Consent of instructor required for graduate students not in Vision Science. The structures and fluids of the eye and orbit, their interactions and functions are considered in this course. Specific topics include the eyelids, tearfilm, conjunctiva, cornea, iris, ciliary body, vasculature, aqueous humor, vitreous body, and the retina.

6403 Psychophysical Methods and Experimental Design (3)
Prerequisite: Consent of instructor required for graduate students not in Vision Science. Advanced methodology for the design and analysis of experiments in a variety of areas of visual science are considered in this course. Both basic and applied topics will be considered. Special emphasis will be placed on psychophysical methodology, signal detection analysis, and scaling techniques.
6404 Sensory Neuroscience (3)
Prerequisite: Opt 6405, Opt 8040, or consent of instructor.
This course will deal with the neural organization of the sensory systems with an emphasis on vision. It will include a review of general neurophysiology and neuroanatomy as they relate to the processing of environmental stimuli into neural information, as well as experimental approaches utilized in neurobiology. Topics to be covered include neural transduction and sensory coding by receptors and neurons, constraints on perception defined by the functional organization of the nervous system, sensory development and plasticity as related to neural development, and evolution of sensory systems.

6405 Neuroanatomy (5)
Prerequisite: Graduate standing. Detailed gross and microscopic anatomy of the human central nervous system with a special emphasis on the cranial nerves, nuclei, and the visual system. Students may not receive credit for both Opt 6405 and Opt 8040.

6406 Geometric Optics (5)
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. A student may not receive credit for both Optometry 6406 and Optometry 8020.

6455 Visual Information Processing (2)
Prerequisite: Completion of core or consent of instructor. This course covers a variety of topics related to the computer modeling of visual problems, such as the detection of surfaces and three-dimensionality, the perception of color, and the encoding of motion. Computer models will be evaluated in terms of their efficiency, veridicality, and relation to biology.

6458 Noninvasive Assessment of the visual System (2)
This course reviews historical topics and emphasizes current topics in the noninvasive clinical and laboratory assessment of the normal and diseased human visual system. Topics will range from delineation of disease mechanisms (such as retinal and choroidal disorders, cataract, corneal disease, glaucoma, strabismus and amblyopia) to the design and assessment of new techniques and technology for evaluating the function of the visual system (e.g. advances in imaging techniques, fluorophotometry, perimetry, laser interferometry, psychophysics, etc.).

6459 Introduction to Computer Programming for Vision Research (3)
Prerequisite: Graduate standing in Vision Science or consent of instructor. This course will expose the student to fundamental concepts of computer programming. The Prograph programming language will be used on the Macintosh computer to illustrate procedural and object-oriented programming philosophies. Examples and assignments will focus upon research applications in vision science.

6470 Individual Studies in Vision Science (2)
Prerequisite: Consent of instructor. This course designation can be used to cover a variety of topics in visual science. In general, very specific topics of limited interest will be presented as individual studies. Individual studies and advanced topics enable the student’s course of study to be sharply tuned to his or her major area of interest.

6490 Graduate Research in Vision Science (1-15)
Prerequisite: Consent of instructor. Research in an area selected by the student in consultation with faculty members. May be taken to a maximum of 10 hours for the M.S. and 15 hours for the Ph.D.

6497 Interdisciplinary Geriatric Care (2)
(Same as Gerontology 6497) Prerequisite: Consent of instructor. Interdisciplinary approaches that address the medical and social needs of the elderly will be examined. Information about geriatric care and social issues affecting the well-being of older adults will be provided. Clinical, theoretical, and educational perspectives will be presented.

6499 Current Topics in Optometry and Vision Science (1)
Prerequisite: Consent of instructor. This seminar course examines and analyzes current publications in eye care and vision research. May be taken as an optometry elective to a maximum of 3 hours.
Residency Programs and Clinical Fellowships

Residency programs prepare graduates for careers in clinical practice and teaching in specialty areas. Each program begins in July, pays a monthly stipend, and awards a Certificate of Completion.

Hospital Based Optometric Residency
Kansas City Veterans Affairs Medical Center

Description of Program: This one year residency at the Eye/VICTORS Clinic Kansas City Veterans Affairs Medical Center provides a wealth of clinical experience in the diagnosis and treatment of patients with ocular disease. The low vision program provides the resident with advanced low vision experience. The resident will become proficient in such special procedures as anterior and posterior segment photography, ultrasonography, computerized visual fields, contrast sensitivity evaluation, and fluorescein angiography.

Hospital Based Optometric Residency
Robert J. Dole Veterans Affair Medical Center in Wichita, KS

Description of Program: This one year residency program will provide extensive clinical experience in ocular disease and low vision. The resident will be involved in primary eye care, pre and post-surgical care, ocular disease and low vision evaluation and management. The resident will attend the Low Vision Rehabilitation team meetings to develop plans for patients’ visual goals. The resident will participate in grand rounds, lectures and journal club. The resident will serve in a supervisory role to third and fourth year optometry interns.

Hospital Based Optometric Residency
St. Louis Veterans Affairs Medical Center

Description of Program: This one year residency provides advanced clinical training in primary care optometry with an emphasis on geriatric patients and diseases of the elderly. Extensive clinical experience is gained by providing care to the St. Louis VA Medical Center’s patient population of adult and elderly patients. A strong point of the program is the one-on-one interaction with the program’s experienced faculty. The residency is associated with the medical center’s Geriatric Research Education and Clinical Center. The St. Louis and 24 other GRECC centers across the nation are recognized as leaders in advancing geriatric care.

Hospital Based Optometric Residency
Marion Veterans Affairs Medical Center in Marion, IL

Description of Program: This one year residency will provide extensive clinical experience in primary care with treatment and management of ocular disease as well as low vision rehabilitation. The resident will assist with direct patient care and the teaching of student interns. Other responsibilities include attending and/or lecturing at seminars.

Hospital Based Pediatric Optometry Residency
Children’s Mercy Hospital and Clinics in Kansas City, MO

Description of Program: This one year residency provides advanced clinical education in the diagnosis and management of eye and vision problems encountered in pediatric eye care. These include, but are not limited to: amblyopia, strabismus, ocular pathology, refractive errors, developmental delays and premature birth. This program will strengthen the resident’s expertise in refractive disorders of infants, examination skills with pediatric patients, and management of accommodative esotropia. The resident will also develop skills in presenting to other professionals and critical assessment skills for reviewing journal articles.

Residency in Pediatrics and Vision Therapy Rehabilitation

Description of Program: This 54 week program provides advanced clinical experience in all aspects of pediatric optometry and binocular vision patient care. The resident will have the opportunity to interact with a significant number of College of Optometry regular and adjunct faculty members. The resident will have the opportunity for interaction and case co-management with other health care and education professionals. The program is flexible and can be adapted to meet the particular interests of the resident.
Residency Program in Cornea/Contact Lenses

Description of Program: This 54 week program will provide extensive experience in the theory and clinical application of contact lenses. Participation in advanced contact lenses and corneal physiology instruction, research and rotation through private practice and refractive surgery clinics will be included in this program. Contact lens practice management will be emphasized with the assistance of experienced adjunct faculty. The resident will assist with direct patient care and the teaching of student interns. Advanced contact lens instruction, fitting challenging cases, co-management of refractive surgery patients, contact lens and clinical research, contact lens practice management instruction, and informative and clinically beneficial elective courses are included in this program.

Combined Postgraduate Clinical Fellowship and M.S. Degree

This two year program is designed for those who wish to pursue a career in specialty clinical practice, education, and/or research.

About one half of the participant's schedule is occupied pursuing course work required of the M.S. degree in vision science. The remainder of time will be devoted to advanced clinical practice, clinically relevant research and teaching optometry students in clinics and laboratories. The clinical fellows also share call coverage for the Center for Eye Care’s emergency service. Emphasis areas include pediatrics/binocular vision, low vision, ocular disease, electrodiagnostics, and geriatrics. For the geriatric emphasis the clinical fellow may pursue an M.S. in gerontology rather than vision science. A three person advisory team, chaired by a member of the doctoral faculty, will guide the clinical fellow through the program and serve as his/her thesis advisors.
Continuing Education

The College of Optometry offers continuing education programs for optometrists throughout the Midwest region as well as nationwide. Courses on nutrition, management of ocular diseases, ocular anomalies and visual skills are held on a frequent basis. In addition to our faculty, optometric specialists, medical educators, and researchers have input through participation in the course presentations.

All continuing education courses offered by the College are accepted by those states requiring continuing education credit for re-licensure. Continuing education course information may be obtained by contacting:

University of Missouri-St. Louis
College of Optometry
Office of Continuing Education
One University Boulevard
St. Louis, MO 63121-4400
(314) 516-5615

Licensure

Optometry is an independent doctoral-level health profession regulated by the state licensure. This means that optometrists must be licensed by the state in which they wish to practice. Each state establishes its own optometric licensing requirements, enforced by its respective State Board of Examiners. While the requirements for optometric licensure vary from state to state, all state licensing boards require applicants to have graduated from an accredited school or college of optometry. As such, graduates of the UM-St. Louis College of Optometry are qualified to apply for state licensure in any state in the United States and the District of Columbia.
Administration, Faculty, and the Leadership Council

Administration

Larry J. Davis  
Dean, Associate Professor  
O.D., Indiana University; Residency, Contact Lenses, University of Missouri-St. Louis

Gerald A. Franzel  
Associate Dean for Continuing Education and E-Learning;  
Associate Clinical Professor  
O.D., University of Houston

Ralph P. Garzia  
Assistant Dean for Academic and Clinical Programs;  
Associate Professor  
O.D., Residency, Pediatric Optometry, Pennsylvania College of Optometry

Faculty (on-campus)

Jerry L. Christensen  
Professor Emeritus and Dean Emeritus  
O.D., Ph.D., The Ohio State University

Vinita A. Henry  
Clinical Professor; Director of Residency Programs;  
Co-Chief Contact Lens Service and Interim Director, Clinical Programs  
O.D., Residency, Contact Lenses, University of Missouri-St. Louis

Raymond I. Myers  
Clinical Professor  
O.D., Indiana University

Carol K. Peck  
Professor  
Ph.D., Postdoctoral Fellow, University of California-Los Angeles

Timothy A. Wingert  
Professor  
Chief of Third-year Primary Care Service  
O.D., Illinois College of Optometry

William G. Bachman  
Associate Professor  
M.S., University of Alabama-Birmingham; O.D., Southern College of Optometry

Carl J. Bassi  
Director of Research and Graduate Studies; Associate Professor  
Ph.D., Vanderbilt University; Postdoctoral Fellow, University of Southern California, Doheny Eye Institute

Edward S. Bennett  
Associate Professor; Co-chief Contact Lens Service;  
Director of Student Services  
M.S.Ed., O.D., Indiana University, Bloomington

Thomas Landgraf  
Associate Clinical Professor  
O.D., Illinois College of Optometry; Residency, Primary Care, Pennsylvania College of Optometry

William F. Long  
Associate Professor Emeritus  
Ph.D., Michigan State University; O.D., Indiana University

W. Howard McAlister  
Associate Professor  
M.A., Webster College; M.P.H., University of Illinois at the Health Sciences Center - Chicago; O.D., The Ohio State University

Kathleen Boland  
Assistant Clinical Professor, Interim Director, Harvester Eye Center  
O.D., University of Missouri—St. Louis

John Crane  
Assistant Clinical Professor  
O.D., University of Missouri-St. Louis

James A. DeClue  
Adjunct Assistant Professor  
O.D., Illinois College of Optometry

Julie Ott DeKinder  
Assistant Clinical Professor and Coordinator, Emergency Eye Services; Program Coordinator for Residency, Contact Lenses  
O.D., Northeastern State University; Residency, Cornea and Contact Lens, University of Missouri—St. Louis

Jamal Fox  
Assistant Clinical Professor  
O.D., Pennsylvania College of Optometry

Aaron S. Franzel  
Assistant Clinical Professor; Chief of Pediatric and Binocular Vision Service, Pediatrics; Program Coordinator for Residency, Binocular Vision  
O.D., University of Missouri-St. Louis

Christine Garhart  
Assistant Teaching Professor  
D.V.M., Ph.D., University of Missouri-Columbia, Case Western University

Christine Gavett  
Assistant Clinical Professor  
O.D., University of Missouri-St. Louis
Alexander J. Harris  
Director of Externship Programs and Minority Affairs  
Advisor; Assistant Clinical Professor  
M.A., Washington University; O.D., University of Missouri-St. Louis

Julie Hutchinson  
Assistant Clinical Professor  
O.D., Pennsylvania College of Optometry; Residency, Primary Care and Geriatric Optometry, St. Louis Veterans Affairs Medical Center

Edward Jarka  
Assistant Clinical Professor; Coordinator, Eye Health Management Services  
O.D., Illinois College of Optometry; M.S., Western Illinois University

Mark Karhoff  
Assistant Clinical Professor  
O.D., University of Missouri-St. Louis

Guoqiang Li  
Assistant Professor  
Ph.D., Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Linda Marks  
Assistant Clinical Professor  
O.D., Ferris State University: Residency, Pediatric Optometry, University of Missouri-St. Louis

Angel Novel  
Assistant Clinical Professor  
O.D., University of Missouri-St. Louis; Residency, Ocular Disease and Primary Care, Hudson Valley VA Health Care System, Montrose, NY

Pamela Snyder  
Assistant Clinical Professor  
O.D., Michigan College of Optometry at Ferris State University

Erwin Wong  
Assistant Professor  
O.D., Southern California College of Optometry; Ph.D., University of Houston, Postdoctoral Fellow, University of California, Berkeley, and Washington University

Jeffrey L. Weaver  
Adjunct Professor  
M.S., The Ohio State University; M.B.A., Drury College; O.D., Pennsylvania College of Optometry; Residency, Family Practice, The Ohio State University

Leonard L. Naeger  
Adjunct Associate Professor  
Ph.D., University of Florida; Residency Hospital-based Pharmacy, VA Medical Center, St. Louis

Lee J. Browning  
Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis; Residency, Northeastern State University, Talequah, OK

Brian Brunig  
Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

Raneat Cohen  
Adjunct Assistant Professor  
O.D., Indiana University; Residency Ocular Disease, Dayton VA Medical Center

Beth A. Henderson  
Adjunct Assistant Professor  
O.D., The Ohio State University

Vivian Kloke  
Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

Thomas LaRosa  
Specialist M.Ed., University of Missouri-St. Louis

Eric Polk  
Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

Mary Beth Rhomberg  
Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

Joseph Venverloh  
Adjunct Assistant Professor  
O.D., University of Houston, M.S. University of Houston

Stephen Viola  
Adjunct Assistant Professor  
Ph.D., Indiana State University

Gary Vogel  
Adjunct Assistant Professor  
O.D., Ohio State University

Deborah Iadevito  
Specialist  
M.Ed., University of Missouri-St. Louis

Off-Campus Adjunct Faculty

Joseph H. Maino  
Adjunct Professor  
O.D., Illinois College of Optometry; Residency, Rehabilitative Optometry, VA Medical Center, Kansas City

Sean Mulqueeny  
Adjunct Associate Professor  
O.D., University of Missouri-St. Louis
Levent Akduman
Adjunct Assistant Professor
M.D., Hacettepe, University of Turkey

Jackie Anderson
Adjunct Assistant Professor
O.D., University of Missouri—St. Louis, Residency, Pediatrics and Binocular Vision, University of Missouri—St. Louis

Ronald Bateman
Adjunct Assistant Professor
O.D., Indiana University, Bloomington

Mary Bigelow
Adjunct Assistant Professor
O.D., Indiana University; Residency, Hospital-Based Optometry, Wilford Hall Medical Center, San Antonio, TX

Robert Brusatti
Adjunct Assistant Professor
O.D., University of Missouri-St. Louis

Carmen Castellano
Adjunct Assistant Professor
O.D., Illinois College of Optometry

Walter Choate
Adjunct Assistant Professor
O.D., Southern College of Optometry

Sara Crussana
Adjunct Assistant Professor
O.D., New England College of Optometry

Cheryl Davidson
Adjunct Assistant Professor
O.D., University of Missouri—St. Louis

James A. DeClue
Adjunct Assistant Professor
O.D., Illinois College of Optometry

Michelle Dent
Adjunct Assistant Professor
O.D., VA, Wichita, Kansas

Anthony DeWild
Adjunct Assistant Professor
O.D., University of Missouri—St. Louis, Residency, Hospital Based/Rehabilitative, Kansas City Veterans Affairs Medical Center

Daniel Dillinger
Adjunct Assistant Professor
O.D., University of Missouri—St. Louis

Gail B. Doell
Adjunct Assistant Professor
O.D., University of Missouri-St. Louis

Jilma Ellison
Adjunct Assistant Professor
O.D., Northeastern University

Robert Feibel
Adjunct Assistant Professor
M.D., Harvard Medical School; Residency, Ophthalmology, Barnes Hospital, St. Louis, MO

John Galanis
Adjunct Assistant Professor
M.D., St. Louis University

John M. Garber
Adjunct Assistant Professor
O.D., Southern College of Optometry

Kevin Greuloch
Adjunct Assistant Professor
M.D., University of Michigan Medical School; Residency, Ophthalmology, University of Illinois at Chicago, Chicago, IL

Steven J. Grondalski
Adjunct Assistant Professor
O.D., Pennsylvania College of Optometry

Timothy Harkins
Adjunct Assistant Professor
O.D., Southern California College of Optometry

Steven Hill
Adjunct Assistant Professor
O.D., Illinois College of Optometry

James Hoekel
Adjunct Assistant Professor
O.D., University of Missouri-St. Louis

Kristen Jaloszynski
Adjunct Assistant Professor
O.D., SUNY College of Optometry; Residency, Ocular Disease/Low Vision Rehabilitation, Kansas City Veteran’s Affairs Medical Center

Mark Johnson
Adjunct Assistant Professor
Ph.D., Vision Science, The City University, London, UK

Kamey Kapp
Adjunct Assistant Professor
O.D., Pacific University College of Optometry

Debbie Kerber
Adjunct Assistant Professor
O.D., University of Missouri-St. Louis
Sean Knaak
Adjunct Assistant Professor
O.D., Indiana University School of Optometry; Residency,
Hospital Based Rehabilitative Optometry, Kansas City
Veterans Affairs Medical Center

Harry Knopf
Adjunct Assistant Professor
M.D., Harvard Medical School

Linda Lucas
Adjunct Assistant Professor
O.D., Indiana University School of Optometry

Michael, Lachtrup
Adjunct Assistant Professor
O.D., University of Missouri - St. Louis

Jeffrey Newsom
Adjunct Assistant Professor
O.D., Southern College of Optometry

Daniel Osborn
Adjunct Assistant Professor
M.D., Indiana University School of Medicine

Arraya Paksin-Hall
Adjunct Assistant Professor
O.D., University of Missouri-St. Louis; Residency, Ocular
Disease, Harry S. Truman Veterans Affairs Medical
Center, Columbia, MO; Residency, Primary Care,
University of Missouri-Columbia School of Medicine

David Pierce
Adjunct Assistant Professor
O.D., Southern College of Optometry

Thomas I. Porter
Adjunct Assistant Professor
O.D., Southern College of Optometry

Joseph Pruitt
Adjunct Assistant Professor
O.D., Illinois College of Optometry, Residency,
Geriatric/Primary Care, West Los Angeles Veteran affairs
Healthcare Center

James Rieger
Adjunct Assistant Professor
O.D., University of Missouri—St. Louis

Byron A. Santos
Adjunct Assistant Professor
M.D., University of San Carlos

Carol Scott
Adjunct Assistant Professor
O.D., Southern College of Optometry

Katherine Sanford
Adjunct Assistant Professor
O.D., Southern College of Optometry; Residency, Primary
Care, Veterans Affairs medical Center, Memphis, TN

Craig Sorce
Adjunct Assistant Professor
O.D., University of Missouri-St. Louis

Amy Sullivan
Adjunct Assistant Professor
O.D., Southern College of Optometry

Claude Valenti
Adjunct Assistant Professor
O.D., University of Pennsylvania

John Volosin
Adjunct Assistant Professor
O.D., Northeastern State University Oklahoma College of
Optometry

Paul Whitten
Adjunct Assistant Professor
O.D., University of Missouri-St. Louis

Carrie Williams
Adjunct Assistant Professor
O.D., Southern College of Optometry

Melissa Wisniewski
Adjunct Assistant Professor
O.D., Pennsylvania College of Optometry

Jack Yager
Adjunct Assistant Professor
O.D., Ohio State University

Dwayne Young
Adjunct Assistant Professor
O.D., Indiana University

Leadership Council
Barbara W. Brown, O.D., ex officio
James Burerman, O.D.
Carmen Castellano, O.D.
Thomas Cullinane, O.D.
Larry J. Davis, O.D., ex officio
Mr. Patrick Gadell
Lawrence Gans, M.D.
Thomas Greene, O.D.
Mr. Matthew Iovaldi
Jeffrey D. La Ferla O.D.
Sean Mulqueeny, O.D.
Daniel Osborn, M.D.
Jay Pepose, M.D., Ph.D.
Geoffrey R. H. Powell, O.D.
Anne Ream, O.D., Chair
Karen Rosen, O.D.
Christina Sorenson, O.D.
Mr. Steve Sutherlin
Jeffrey L. Weaver, O.D.
APPENDIX

The following policies may be found at the URL’s in the text, and are updated periodically. The web site will have the most up-to-date information.

Contents

Confidentiality Policy (UMSL Bulletin).............66
Code of Student Conduct (200.010).................67
Maintaining a Positive Work and Learning Environment Statement (330.080).............68
Student Disciplinary Matters (200.020)..............69
Financial Aid Appeals (UMSL Bulletin)..........74
Grievance about Grades (UMSL Bulletin)........74
Student Organization Policy (UMSL Bulletin).....75
Policy on Hazing (UMSL Bulletin)..................76
University of Missouri Plan for Equal Opportunity and Affirmative Action (320.010).....77
Sexual Harassment (330.060)..........................77
Auxiliary Aids for Students with Disabilities (240.040)..........................78
AIDS Policy Statement (280.030)....................80
Affirmative Action on Committee Appointment (330.070)..........................80
Discrimination Grievance Procedures for Students (390.010)..........................81

Confidentiality Policy

These statements are set forth as guidelines and procedures to implement the University of Missouri policy on student records developed from The Family Educational Rights and Privacy Act of 1974.

The University of Missouri-St. Louis as charged in the act will annually inform its eligible students by including in the Student Handbook, the Schedule of Courses, the UM-St. Louis Bulletin, and the Current (student newspaper) the following information:

1. "Education Records" are those records, files, documents, and other materials which contain information directly related to a student and are maintained by the university. Those records, made available under The Family Educational Rights and Privacy Act of 1974, are student financial aid, the student's cumulative advisement file, student health records, disciplinary records, admissions file, and academic record. Confidential letters and statements of recommendation which were placed in student credential folders at the Office of Career Placement Services after January 1, 1975, are also made available, if the student has not waived the right to view these recommendations.

The University of Missouri-St. Louis "Education Records" do not include:

- Records of instructional, supervisor, and administrative personnel and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible or revealed to any other person except a substitute.

- Records of the University of Missouri Police Department which were created for a law enforcement purpose and are maintained by the police department.

- In the case of persons who are employed by the university but who are not in attendance at the university, records made and maintained in the normal course of business which related exclusively to such persons and that person's capacity as an employee where the records are not available for any other purpose.

- All records on any university student which are created and maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his professional or paraprofessional capacity, or assisting in that capacity, and which are created, maintained, or used only in connection with the provision of treatment to the student, and are not available to anyone other than persons providing such treatment, provided, however, that such records can be personally reviewed by a physician or other appropriate professional of the student's choice.

2. The University of Missouri-St. Louis recognizes "Directory Information/Public Information" to mean a student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. All students must inform the Office of the Registrar before the end of the two-week period following the first day of classes that any or all of the information designated as directory information should not be released without the student's prior consent. The information listed above will become directory information or public information as of the first day of classes following the end of the two-week period in a regular semester and the first day of classes following the end of the one-week period during the summer session.

3. University of Missouri-St. Louis students have access to the educational records identified in Paragraph 1 above. In accordance with Public Law 93-380 as amended, the University of Missouri-St. Louis will not make available to students the following materials:
• Financial records of the parents of students or any information contained therein.

• Confidential letters and statements of recommendation which were placed in the education records prior to January 1, 1975, if such letters or statements are not used for the purpose other than those for which they were specifically intended.

• Confidential recommendations respecting admission to the university, application for employment and receipt of honor, or honorary recognition, where the student has signed a waiver of the student's rights of access as provided in 6.0404, the University Policy on Student Records.

4. The director of Financial Aid, the appropriate academic dean, the coordinator of the Student Health Service, the Vice Provost for Student Affairs, the Director of Career Placement Services, the Director of Admissions, and the Registrar are the officials responsible for the maintenance of each type of record listed in Paragraph 1.

5. Any student may, upon request, review his or her records and, if inaccurate information is included, may request the expunging of such information from the file. Such inaccurate information will then be expunged upon authorization of the official responsible for the file.

6. Students desiring to challenge the content of their record may request an opportunity for a hearing to challenge the content of the educational record in order to ensure that the record is not inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student, to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained therein, and to insert into such records a written explanation respecting the content of such records.

7. The university official charged with custody of the records will attempt to settle informally any disputes with any student regarding the content of the university's educational records through informal meetings and discussions with the student.

8. Upon request of the student or the university official charged with custody of the records of the student, a formal hearing shall be conducted as follows:

• The request for a hearing shall be submitted in writing to the campus chancellor who will appoint a hearing officer or a hearing committee to conduct the hearing.

• The hearing shall be conducted and decided within a reasonable period of time following the request for a hearing. The parties will be entitled to written notice 10 days prior to the time and place of the hearing.

• The hearing shall be conducted and the decision rendered by an appointed hearing official or officials who shall not have a direct interest in the outcome of the hearing.

• The student shall be afforded a full and fair opportunity to present evidence relevant to the hearing.

• The decision shall be rendered in writing within a reasonable period of time after the conclusion of the hearing.

• Either party may appeal the decision of the hearing official or officials to the campus chancellor. Appeal from the Chancellor's decision is to the President. Appeal from the President is to the Board of Curators.

9. The University of Missouri - St. Louis will not mail grade reports to parents unless the student in question has completed the necessary authorization in the registrar's office.

10. The University of Missouri-St. Louis may permit access to or release of the educational records without the written consent of the student to the parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954.

11. If any material or document in the educational record of a student includes information on more than one student, the student may inspect and review only such part of such material or document as relates to him or her or to be informed of the specific information contained in such part of such material.

Code of Student Conduct (200.010)


A student enrolling in the university assumes an obligation to behave in a manner compatible with the university's function as an educational institution.

A. Jurisdiction of the University of Missouri generally shall be limited to conduct which occurs on the University of Missouri premises or at university-sponsored or university-supervised functions. However, nothing restrains the administration of the University of Missouri from taking appropriate action, including, but not limited to, the imposition of sanctions under Section 200.020(C), against students for conduct on or off university premises in order to protect the physical safety of students, faculty, staff and visitors.
B. Conduct for which students are subject to sanctions falls into the following categories:

1. **Academic dishonesty**, such as cheating, plagiarism or sabotage. The Board of Curators recognizes that academic honesty is essential for the intellectual life of the university. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. In all cases of academic dishonesty, the instructor shall make an academic judgment about the student’s grade on that work and in that course. The instructor shall report the alleged academic dishonesty to the Primary Administrative Officer.

a. The term **cheating** includes but is not limited to (I) use of any unauthorized assistance in taking quizzes, tests, or examinations; (ii) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; (iii) acquisition or possession without permission of tests, or other academic material belonging to a member of the university faculty or staff; or (iv) knowingly providing any unauthorized assistance to another student on quizzes, tests, or examinations.

b. The term **plagiarism** includes, but is not limited to: (I) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference; (ii) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or (iii) unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

c. The term **sabotage** includes, but is not limited to, the unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the university community.

2. **Forgery, alteration, or misuse** of university documents, records or identification, or knowingly furnishing false information to the university.

3. **Obstruction or disruption** of teaching, research, administration, conduct proceedings, or other university activities, including its public service functions on or off campus.

4. **Physical abuse** or other conduct which threatens or endangers the health or safety of any person.

5. **Attempted or actual theft** of, damage to, or possession without permission of property of the university or of a member of the university community or of a campus visitor.

6. **Unauthorized possession**, duplication or use of keys to any university facilities or unauthorized entry to or use of university facilities.

7. **Violation of University policies**, rules or regulations or of campus regulations including, but not limited to, those governing residence in university-provided housing, or the use of university facilities, or the time, place and manner of public expression.

8. **Manufacture, use, possession, sale or distribution of alcoholic beverages** or any controlled substance without proper prescription or required license or as expressly permitted by law or university regulations.

9. **Disruptive or disorderly conduct** or lewd, indecent, or obscene conduct or expression.

10. **Failure to comply** with directions of university officials acting in the performance of their duties.

11. **Illegal or unauthorized possession of firearms**, explosives, other weapons, or dangerous chemicals.

12. **Misuse in accordance with University policy of computing resources**, including but not limited to:

   a. Actual or attempted theft or other abuse.

   b. Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.

   c. Unauthorized transfer of a file.

   d. Unauthorized use of another individual's identification and password.

   e. Use of computing facilities to interfere with the work of another student, faculty member or university official.

   f. Use of computing facilities to interfere with normal operation of the university computing system.

   g. Knowingly causing a computer virus to become installed in a computer system or file.

**Maintaining a Positive Work and Learning Environment (330.080)**

Executive Guideline No. 3, 7-18-97; Executive Order No. 3 replaced by policy stated in Bd. Min. 1-29-99. (reviewed April 4, 2004)

1. The University of Missouri is committed to providing a positive work and learning environment where all individuals are treated fairly and with respect, regardless of their status. Intimidation and harassment have no place in a university community. To honor the dignity and inherent worth of every individual -- student, employee, or applicant for employment or admission -- is a goal to which every member of the university community should aspire and to which officials of the university should direct attention and resources.
2. With respect to students, it is the university's special responsibility to provide a positive climate in which students can learn. Chancellors are expected to provide educational programs and otherwise direct resources to creative and serious measures designed to improve interpersonal relationships, to help develop healthy attitudes toward different kinds of people, and to foster a climate in which students are treated as individuals rather than as members of a particular category of people.

3. With respect to employees, the strength we have as a university is directly related to maintaining a positive work environment throughout the institution. The university should provide a positive recruiting and work environment focused on the duties and skills of the work to be performed. It is the expectation of the university that all employees and potential employees will be treated on the basis of their contribution or potential contribution without regard to personal characteristics not related to competence, demonstrated ability, performance, or the advancement of the legitimate interests of the university. The General Officers are expected to provide training programs for supervisors to assist in achieving this objective.

4. With respect to violations of the policy, faculty, staff and students may utilize their respective grievance procedures approved by the Board of Curators. The approved grievance procedures are as follows: Grievance procedure in Section 360.010 for faculty; grievance procedure in Section 380.010 for staff; and grievance procedure in Section 390.010 for students, and each such procedure shall be deemed as amended to include grievances filed under this policy. This policy shall not be interpreted in such a manner as to violate the legal rights of religious organizations, or military organizations associated with the Armed Forces of the United States of America.

Student Disciplinary Matters (200.020)

Bd. Min. 11-8-68, Amended Bd. Min. 3-20-81; Bd. Min. 12-8-89, Amended 5-19-94; Bd. Min. 5-24-01. (reviewed September 28, 2004)

A. Preamble. The following rules of procedure in student conduct matters are hereby adopted in order to insure insofar as possible and practicable (a) that the requirements of procedural due process in student conduct proceedings will be fulfilled by the University, (b) that the immediate effectiveness of Section 10.030, which is Article V of the Bylaws of the Board of Curators relating to student conduct and sanctions may be secured for all students in the University of Missouri, and (c) that procedures shall be definite and determinable within the University of Missouri.

B. Definitions. As used in these rules, the following definitions shall apply:

1. Primary Administrative Officers. As used in these procedures, the Chief Student Affairs Administrator on each campus is the Primary Administrative Officer except in cases of academic dishonesty, where the Chief Academic Administrator is the Primary Administrative Officer. Each Primary Administrative Officer may appoint designee(s) who are responsible for the administration of these conduct procedures, provided all such appointments must be in writing, filed with the Chancellor of the campus, and the office of General Counsel. The Primary Administrator's Office will certify in writing that the given designee has been trained in the administration of student conduct matters.

2. Student Panel. A panel of students appointed by the Chancellor, from which shall be selected by the Chair, upon the request of a student charged before the Student Conduct Committee, not more than three students to serve with the Student Conduct Committee.

3. Student. A person having once been admitted to the University who has not completed a course of study and who intends to or does continue a course of study in or through one of the campuses of the University. For the purpose of these rules, student status continues whether or not the University's academic programs are in session.

4. Student Conduct Committee. As used in these procedures, "Student Conduct Committee," hereinafter referred to as the Committee, is that body on each campus which is authorized to conduct hearings and to make dispositions under these procedures or a Hearing Panel of such body as herein defined.

C. Sanctions.

1. The following sanctions may be imposed upon any student found to have violated the Student Conduct Code; more than one of the sanctions may be imposed for any single violation:

   a. Warning. A notice in writing to the student that the student is violating or has violated institutional regulations.

   b. Probation. A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe sanctions if the student is found to be violating any
institutional regulation(s) during the probationary period.

c. Loss of Privileges. Denial of specified privileges for a designated period of time.

d. Restitution. Compensation for loss, damage, or injury to the University or University property. This may take the form of appropriate service and/or monetary or material replacement.

e. Discretionary Sanctions. Work assignments, service to the University, or other related discretionary assignments.

f. Residence Hall Suspension. Separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.

g. Residence Hall Expulsion. Permanent separation of the student from the residence halls.

h. University Dismissal. An involuntary separation of the student from the institution for misconduct apart from academic requirements. It does not imply or state a minimum separation time.

i. University Suspension. Separation of the student from the University for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.

j. University Expulsion. Permanent separation of the student from the University.

2. Informal Dispositions. The Primary Administrative Officer/Designee(s) shall have the authority to make a determination and to impose appropriate sanctions and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition. A failure of the student either to accept or reject within the time fixed may be deemed by the University to be an acceptance of the determination, provided the student has received written notice of the proposed determination and the result of the student's failure to formally reject and, in such event, the proposed disposition shall become final upon expiration of such time. If the student rejects informal disposition it must be in writing and shall be forwarded to the Committee. The Primary Administrative Officer/Designee(s) may refer cases to the Committee without first offering informal disposition.

3. Formal Procedure and Disposition.

a. Student Conduct Committee:

(1) The Committee shall be appointed by the Chancellor and shall have the authority to impose appropriate sanctions upon any student or students appearing before it.

(2) The Committee, when appropriate or convenient, may be divided by the Chair of the Committee into Hearing Panels, each panel to be composed of at least five Committee members, which may include a maximum of two students present at the hearing, including a designated chair. A Hearing Panel has the authority of the whole Committee in those cases assigned to it. The Chair of the Committee or of a Hearing Panel shall count as one member of the Committee or Hearing Panel and have the same rights as other members.

(3) Each Chancellor shall appoint a panel of students, to be known as the Student Panel. Upon written request of a student charged before the Committee, made at least seventy-two (72) hours prior to the hearing, the Chair of the Committee or Hearing Panel shall appoint from the Student Panel not more than three students to sit with the Committee or two students to sit with the Hearing Panel (as stated in 4.a.(2)) for that particular case. When students from the Student Panel serve at the request of a student charged, they shall have the same administrative officer/Designee(s). The Primary Administrative Officer/Designee(s), in making an investigation and disposition, may utilize student courts and boards and/or divisional deans to make recommendations.

D. Records Retention. Student conduct records shall be maintained for five years after University action is completed.

E. Policy and Procedures.

1. Preliminary Procedures. The Primary Administrative Officer/Designee(s) shall investigate any reported student misconduct before initiating formal conduct procedures and give the student the opportunity to present a personal version of the incident or occurrence. The Primary Administrative Officer/Designee(s) may discuss with any student such alleged misconduct and the student shall attend such consultation as requested by the Primary Administrative Officer/Designee(s).
rights as other members of the Committee or Hearing Panel.

b. **General Statement of Procedures.** A student charged with a breach of the Student Conduct Code is entitled to a written notice and a formal hearing unless the matter is disposed of under the rules for informal disposition. Student conduct proceedings are not to be construed as judicial trials and need not wait for legal action before proceeding; but care shall be taken to comply as fully as possible with the spirit and intent of the procedural safeguards set forth herein. The Office of the General Counsel shall be legal adviser to the Committee and the Primary Administrative Officer/Designee(s).

c. **Notice.** The Primary Administrative Officer/Designee(s) shall initiate student conduct proceedings by arranging with the Chair to call a meeting of the Committee and by giving written notice by certified mail or personal delivery to the student charged with misconduct. The notice shall set forth the date, time, and place of the alleged violation and the date, time, and place of the hearing before the Committee. Notice by certified mail may be addressed to the last address currently on record with the University. Failure by the student to have a current correct local address on record with the University shall not be construed to invalidate such notice. The notice shall be given at least seven (7) consecutive days prior to the hearing, unless a shorter time be fixed by the Chair for good cause. Any request for continuance shall be made in writing to the Chair, who shall have the authority to continue the hearing if the request is timely and made for good cause. The Chair shall notify the Primary Administrative Officer/Designee(s) and the student of the new date for the hearing. If the student fails to appear at the scheduled time, the Committee may hear and determine the matter.

4. **Right to Petition for Review:** (other than University expulsion, University dismissal, or University suspension).

a. In all cases where the sanction imposed by the Committee is other than University expulsion, University dismissal, or University suspension, the Primary Administrative Officer/Designee(s) or the student may petition the Chancellor or Designee in writing for a review of the decision within five (5) calendar days after written notification. A copy of the Petition for Review must also be served upon the nonappealing party within such time. The Petition for Review shall state the grounds or reasons for review, and the nonappealing party may answer the petition within five (5) calendar days.

b. The Chancellor or Designee may grant or refuse the right of review. In all cases where the Petition for Review is refused, the action of the Committee shall be final. If the Chancellor or Designee reviews the decision, the action of the Chancellor shall be final unless it is to remand the matter for further proceedings.

5. **Right of Appeal** (University expulsion, University dismissal, or University suspension only).

a. When a student is expelled, dismissed, or suspended from the University by the Committee, the Primary Administrative Officer/Designee(s), or the student may appeal such decision to the Chancellor or Designee by filing written notice of appeal with the Chancellor within ten (10) calendar days after notification of the decision of the Committee. A copy of the Notice of Appeal will contemporaneously be given by the student to the Primary Administrative Officer/Designee(s) or by the Primary Administrative Officer/Designee(s) to the student. The appealing party may file a written memorandum for consideration by the Chancellor with the Notice of Appeal, and the Chancellor may request a reply to such memorandum by the appropriate party.

b. The Chancellor or Designee shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify each party in writing of the decision on the appeal. The action of the Chancellor shall be final unless it is to remand the matter for further proceedings.

6. **Status During Appeal.** In cases of suspension, dismissal, or expulsion where a Notice of Appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not seriously disrupt the University or constitute a danger to the health, safety, or welfare of members of the University community. In such event, however, any final sanctions imposed shall be effective from the date of the action of the Committee.
7. **Student Honor System.** Forums under the student honor systems established for investigating facts, holding hearings, and recommending and imposing sanctions are authorized when the student honor code or other regulations containing well defined jurisdictional statements and satisfying the requirements of Section 10.030, which is Article V of the Bylaws of the Board of Curators, have been reduced to writing and have been approved by the Chancellor and the Board of Curators and notice thereof in writing has been furnished to students subject thereto. Though the student honor system has jurisdiction, together with procedures set forth therein, instead of the Primary Administrative Officer/Designee(s), the standard of conduct called for in any such student honor system shall be deemed to contain at a minimum the same standards set forth in Section 200.010, entitled Standards of Conduct. Procedures shall satisfy the requirements of the Board of Curators' Bylaws, Section 10.030, which is Article V, and shall contain procedures herein before stated insofar as appropriate and adaptable to the particular situation and shall be approved by the Chancellor and the General Counsel. Students subject to student honor systems shall have the rights of appeal as set forth in Section 200.020 E.6 and 7.

F. **Hearing Procedures.**

1. **Conduct of Hearing.** The Chair shall preside at the hearing, call the hearing to order, call the roll of the Committee in attendance, ascertain the presence or absence of the student charged with misconduct, read the notice of hearing and charges and verify the receipt of notices of charges by the student, report any continuances requested or granted, establish the presence of any adviser or counselor of the student, and call to the attention of the student charged and the adviser any special or extraordinary procedures to be employed during the hearing and permit the student to make suggestions regarding or objections to any procedures for the Conduct Committee to consider.

a. **Opening Statements.**

   (1) The Primary Administrative Officer/Designee(s) shall make opening remarks outlining the general nature of the case and testify to any facts the investigation has revealed.

   (2) The student may make a statement to the Committee about the charge at this time or at the conclusion of the University's presentation.

b. **University Evidence.**

   (1) University witnesses are to be called and identified or written reports of evidence introduced as appropriate.

   (2) The Committee may question witnesses at any time.

   (3) The student or, with permission of the Committee, the adviser or counselor may question witnesses or examine evidence at the conclusion of the University's presentation.

c. **Student Evidence.**

   (1) If the student has not elected to make a statement earlier under a.(2) above, the student shall have the opportunity to make a statement to the Committee about the charge.

   (2) The student may present evidence through witnesses or in the form of written memoranda.

   (3) The Committee may question the student or witnesses at any time. The Primary Administrative Officer/Designee(s) may question the student or witnesses.

d. **Rebuttal Evidence.** The Committee may permit the University or the student to offer a rebuttal of the other's presentation.

e. **Rights of Student Conduct Committee.** The Committee shall have the right to:

   (1) Hear together cases involving more than one student which arise out of the same transaction or occurrence, but in that event shall make separate findings and determinations for each student;

   (2) Permit a stipulation of facts by the Primary Administrative Officer/Designee(s) and the student involved;

   (3) Permit the incorporation in the record by reference of any documentation, produced and desired in the record by the University or the student charged;

   (4) Question witnesses or challenge other evidence introduced by either the University or the student at any time;

   (5) Hear from the Primary Administrative Officer/Designee(s) about dispositions made in similar cases and any dispositions offered to the student appearing before the Committee;

   (6) Call additional witnesses or require additional investigation;

   (7) Dismiss any action at any time or permit informal disposition as otherwise provided;

   (8) Permit or require at any time amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Committee before final determination of the case; provided, however, that in such event the Committee shall grant to the student or Primary Administrative Officer/Designee(s) such time as
the Committee may determine reasonable under the circumstances to answer or explain such additional matters;

(9) Dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Chair of the Committee;

(10) Suspend summarily students from the University who, during the hearing, obstruct or interfere with the course of the hearing or fail to abide by the ruling of the Chair of the Committee on any procedural question or request of the Chair for order.

2. Rights of Students Upon Hearing. A student appearing before a Committee shall have the right to:

a. Be present at the hearing;

b. Have an adviser or counselor and to consult with such adviser or counselor during the hearing;

c. Have students from the Student Panel sit with the Committee or Hearing Panel;

d. Hear or examine evidence presented to the Committee;

e. Question witnesses present and testifying;

f. Present evidence by witnesses or affidavit;

g. Make any statement to the Committee in mitigation or explanation of the conduct in question;

h. Be informed in writing of the findings of the Committee and any sanctions it imposes; and

i. Request review or appeal to the Chancellor as herein provided.

3. Determination by the Student Conduct Committee. The Committee shall then make its findings and determinations in executive session out of the presence of the Primary Administrative Officer/Designee(s) and the student charged. Separate findings are to be made:

a. As to the conduct of the student, and

b. On the sanctions, if any, to be imposed. No sanctions shall be imposed on the student unless a majority of the Committee present is reasonably convinced by the evidence that the student has committed the violation charged.

4. Official Report of Findings and Determinations. The Committee shall promptly consider the case on the merits and make its findings and determination and transmit them to the Primary Administrative Officer/Designee(s) and the student charged forthwith.

5. Other Procedural Questions. Procedural questions which arise during the hearing not covered by these general rules shall be determined by the Chair, whose ruling shall be final unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.

6. General Rules of Decorum. The following general rules of decorum shall be adhered to:

a. All requests to address the Committee shall be addressed to the Chair.

b. The Chair will rule on all requests and points of order and may consult with Committee's legal adviser prior to any ruling. The Chair's ruling shall be final and all participants shall abide thereby, unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.

c. Rules of common courtesy and decency shall be observed at all times.

d. An adviser or counselor may be permitted to address the Committee at the discretion of the Committee. An adviser or counselor may request clarification of a procedural matter or object on the basis of procedure at any time by addressing the Chair after recognition.

7. Record of Hearing. A taped or stenographic record of the hearing shall be maintained. The notice, exhibits, hearing record, and the findings and determination of the Committee shall become the "Record of the Case" and shall be filed in the Office of the Primary Administrative Officer/Designee(s) and for the purpose of review or appeal be accessible at reasonable times and places to both the University and the student.

8. Crimes of Violence and Non-Forcible Sex Offences. In cases of alleged crimes of violence and non-forcible sex offences:

a. The alleged victim is entitled to have an advisor or counselor present during his or her participation in the hearing.

b. The alleged victim and the accused shall be informed of the outcome of any campus
disciplinary proceeding brought alleging a crime of violence or non-forcible sexual assault.

Financial Aid Appeals

The University of Missouri-St. Louis has an established financial aid appeals procedure. An aid applicant can raise questions or appeal the offer, or lack of an offer, of financial aid if not satisfied. The general provisions for appeals procedures are as follows:

1. An aid applicant who is not satisfied with the fact that no aid was offered, or was not pleased with the type and/or amount of aid that was offered, may make a written appeal to the Student Financial Aid Appeals Committee reconsideration of the aid request and/or ask for a personal hearing.

2. If on review of all the facts of the case, including any new information which the applicant may provide, the Committee can a) approve an exception to university policy; b) deny the request; c) approve a modified version of the request.

3. If the Appeals Committee cannot provide a satisfactory solution, the aid applicant may refer the written appeal with all pertinent information to the Director of Financial Aid. Where academic progress is an issue, the student may ask an academic adviser or counselor to write or speak in the student's behalf. If a satisfactory solution is worked out, the case is closed.

4. If step three did not solve the problem, it is referred to the campus Faculty-Senate Committee on Student Aid. In ordinary practice it is rare for a case to be appealed beyond this step.

5. If, however, the applicant is still not satisfied after review by committee, the case is to be referred to the Chancellor.

6. The next appeal is the President.

7. The final university appeal would be for the President to refer a case to the Board of Curators.

Grievance About Grade

On each campus of the University of Missouri it is the Chancellor who is ultimately responsible to the President and the Board of Curators for all campus programs, policies, and activities. On the University of Missouri-St. Louis campus the Chancellor has delegated responsibility for overseeing the grade appeal process to the Vice Chancellor for Academic Affairs. The Vice Chancellor is therefore responsible for assuring that grade appeals are handled in a fair and timely manner. More specifically, that officer is responsible for seeing that the procedures outlined below are appropriately followed.

Informal Procedures

At any time after the awarding of a grade, for a course or an assignment in a course, a student may discuss the grade with her or his instructor and request that the instructor review the grade. If the instructor does review the grade he or she is, of course, free to change the grade or not as is appropriate.

Formal Procedures

The following procedures apply if the above informal procedure does not resolve a dispute concerning a grade to the student's satisfaction and if the process is initiated within thirty working days of the start of the first regular semester (fall or spring) following the semester for which the grade was given, or thirty days after the assignment of the grade (whichever is later).

1. If the student has not already done so, he or she discusses the contended grade fully with the course instructor. The student should prepare for this meeting by taking all relevant written work (tests, reports, etc.) with him/her. If the issue is not resolved, and the student wishes to pursue the appeal, she or he should consult the administrative officer of the department or discipline housing the course in question. (This officer will normally be someone below the level of the Dean.) The administrative officer will discuss the appeal with the course instructor, and will inform the student of the result of this discussion. (That result may be the instructor's agreement to change the grade, her or his refusal to change the grade, or her or his agreement to discuss the case further with the student.) The administrative officer may require that the student put the appeal in written form before the administrative officer discusses it with the instructor.

2. If the matter remains unresolved, the student may, within 10 working days of being notified of the result of the discussion between the administrative officer and the instructor, or within 10 working days of her or his last discussion with the instructor, submit a detailed written statement of the complaint to the administrative officer. The
administrative officer will refer it to a faculty committee composed of at least three faculty members in the department or unit offering the course or if such are not available, in closely allied fields. This committee will investigate the matter, meeting, as it may deem necessary, with the student, the instructor, and possibly others. Following its inquiries and deliberations, but prior to making its final recommendations, the faculty committee will submit a copy of its findings to the course instructor. If the course instructor elects to comment on the findings to the committee, this must be done in writing within seven working days. After further consideration, but within 30 working days after receiving the student's statement, the faculty committee will submit its findings with its recommendations and reasons for those recommendations directly to the course instructor, with a copy to the administrative officer.

3. If the faculty committee recommends that the grade be changed, the administrative officer will ask the instructor to implement the recommendation. If the instructor declines, the administrative officer will change the grade, notifying the instructor and the student of this action. Only the administrative officer, upon the written recommendation or the faculty committee, will effect a change in grade over the objection of the instructor who assigned the original grade.¹

4. If the faculty committee recommends that the grade not be changed, the administrative officer will notify the student of this action. The student may then appeal to the Dean of the college or college within which the course in question is housed, who will determine whether the above procedures have been properly observed. If the Dean determines that the procedures have not been appropriately followed, and that their not being followed may have substantively affected the outcome, the case will be returned to the faculty unit for review by the same, or, if the Dean so determines, by a different committee.

5. If the Dean denies the procedural appeal the student may ask the Vice Chancellor for Academic Affairs, acting as the Chancellor's designee, to conduct a procedural review. The Vice Chancellor is not obligated to conduct such a review and will normally do so only where there is compelling evidence of procedural irregularities. If the Vice Chancellor finds the procedures have not been appropriately followed, and that their not being followed may have substantively affected the outcome, the case will be returned to a lower level for rereview. As the Vice Chancellor is acting as the designee of the Chancellor, there is no appeal beyond this level.

Student Organization Policy

Policy on Student Organizations

The University recognizes that the acquisition of knowledge is not confined to the formality of the classroom and that much can be gained through the activities of student organizations. To assure maximum freedom for students and to assure that organizational activities are orderly, responsible, and appropriate to the mission of the university, certain principles and procedures are established through which organizations gain university recognition.

I Procedures for Recognition

A. To obtain recognition or to register, an organization shall submit to the Vice Chancellor for Student Affairs, through the Office of Student Life, a recognition or registration form which shall include:

1) The name of the organization.

2) A statement of the general purpose of the organization and the means for accomplishing it. The statement should demonstrate that the organization's purpose is to broaden the scope of general learning, extend knowledge of specialized areas, or to serve the professional, cultural, social or recreational interests of the university community, consistent with the educational goals of the university. The statement must not conflict with policies governing recognized organizations as listed below.

3) The names of at least three officers and ten responsible representatives, including student numbers, addresses and telephone numbers; these persons must be students registered at the university of Missouri-St. Louis.

4) A statement of any affiliation with any other organization not registered with the university, and a copy of the organization's constitution.

5) Organizations seeking recognition must include a copy of their constitution and/or by-laws, the name of a UM-St. Louis faculty or staff member (.75 FTE) who agrees to serve as an advisor, and the name of a student member of the organization who will serve as the organization's representative on the Student Government Association.

6) Upon submission of the recognition or registration form, the organization shall be granted temporary privileges until the request for recognition is acted upon by the Senate Student Affairs Committee or the request to register is approved by the Director of Student Life.

¹ Under current campus policy, transcript notation of “DL” automatically becomes and F after one regular semester. These changes, which the Registrar is mandated to make, are not considered grade changes and are not consistent with this Grade Appeal Policy. Students may appeal these changes provided the appeal is initiated with thirty working days of the notification of the change.
B. To maintain recognition or registration, an organization must update their recognition form or re-register with the Office of Student Activities no later than two weeks following the beginning of the fall semester.

II Privileges of Recognized Organizations

1) Use of campus facilities and services for organizational activities as provided in the university regulations.

2) Use of the university name in connection with publicity, but only for identification purposes, and in no way to imply support of the university for any position of the organization.

3) Participation in university-sponsored events.

4) Application for supplemental financial assistance.

5) Participation as a voting member of Student Government Association. Organizations who register may not apply for supplemental assistance and may not be voting members of Student Government Association.

III Policies Governing Recognized or Registered Organizations

1) Organizations shall comply with the Rules and Regulations of the University of Missouri and the St. Louis campus.

2) Organizations’ membership policy shall not discriminate for reasons of color, creed, national origin or gender. Any organization may petition to the Vice Chancellor for Student Affairs for exemption from the requirement as it applies to gender. Academic and professional organizations which have discriminatory membership policy based on gender shall not be recognized.

3) Organizations’ membership shall not be subject to approval by anyone other than the local campus membership.

4) Organizations are expected to maintain fiscal responsibility.

5) Recognized and registered organizations are required to seek the advice of faculty and other members of the community.

6) Recognized organizations are required to participate in the Student Governance process.

IV Procedure for Review of Grievances

A. Any member of the university community may bring charges against a recognized organization for breach of the above policies or procedures.

B. Such charges, except those pertaining to discrimination, are brought initially to the Vice Chancellor for Student Affairs, who may:

1) Dismiss the charges, in which case an appeal may be made to the Senate Student Affairs Committee.

2) Settle the charges in a way acceptable to both parties or,

3) Refer the charges to the Senate Student Affairs Committee.

C. Penalties may range from withdrawals of one or more privileges to withdrawal of recognition or registration. Assessment of penalties shall also provide for the conditions leading to reinstatement of such privileges for recognition.

D. Either party to the charges may appeal the decision of the Senate Student Affairs Committee to the Chancellor.

Policy on Hazing

Hazing, defined by the Fraternity Executive Association and accepted by the University of Missouri-St. Louis, is any intentional action taken or situation created, whether on or off university premises, that produces mental or physical discomfort, embarrassment, harassment, or ridicule. This includes but is not limited to: paddling in any form, creation of excessive fatigue, physical or psychological shocks, wearing apparel publicly which is conspicuous and not normally in good taste, engaging in public stunts and buffoonery, morally degrading or humiliating games and activities, involuntary labor, or any activity not consistent with the University of Missouri Board of Curators Standard of Student Conduct.

The University of Missouri-St. Louis does not condone or tolerate hazing of any type by an organization, or by an individual against another individual.

The Office of Student Activities will investigate any incident in which a charge of hazing has been made. University recognition may be temporarily withdrawn pending hearings and due process procedures. Should it be determined that a student organization or any of its members is guilty of hazing as previously defined, sanctions may include but are not limited to:

A. Automatic and indefinite suspension of campus recognition or registration with an accompanying loss of all campus privileges (i.e. use of facilities, student services, etc.);

B. Disciplinary action against those members involved in the incident(s) including suspension or expulsion from the university.

Each organizational president (or equivalent officer) is required to read and sign the university’s Policy on Hazing at the first regular meeting at which he or she presides. This policy, signed by the incoming president (or equivalent officer), must accompany any notification of a change in officers submitted to the Office of Student Activities.
Activities. Failure to do so will result in the automatic imposition of inactive status on the organization with an accompanying loss of all university privileges until such time as the signed policy is submitted.

University of Missouri Plan for Equal Opportunity and Affirmative Action (320.010)

320.010 Equal Employment Opportunity Program

Bd. Min. 2-19-71; Reaffirmed Bd. Min. 10-14-77; Amended Bd. Min. 5-23-80; Amended Bd. Min. 10-15-82; Amended Bd. Min. 10-16-03. (reviewed April 6, 2004)

A. Policy -- The Curators of the University of Missouri do hereby reaffirm and state the policy of the University of Missouri on Equal Employment/Educational Opportunity.

1. Equal Opportunity is and shall be provided for all employees and applicants for employment on the basis of their demonstrated ability and competence without discrimination on the basis of their race, color, religion, sex, sexual orientation, national origin, age, disability, or status as a Vietnam era veteran. This policy shall not be interpreted in such a manner as to violate the legal rights of religious organizations or military organizations associated with the Armed Forces of the United States of America.

2. Equal Opportunity is and shall be also provided for all students and applicants for admission in compliance with existing legislation.

B. Procedures -- The President of the University shall establish affirmative action procedures to implement this policy.

The Office of Equal Opportunity is located in 414 Woods Hall. They can be reached by calling (314) 516-5695.

Sexual Harassment (330.060)

330.060 Sexual Harassment

Executive Order No. 20, 3-17-81 (Rev. 7-1-81 and 9-20-83), Bd. Min. 3-18-93. (reviewed April 7, 2004)

This University of Missouri policy aims for an increased awareness regarding sexual harassment by making available information, education and guidance on the subject for the University community.

A. Policy Statement -- It is the policy of the University of Missouri, in accord with providing a positive discrimination-free environment, that sexual harassment in the workplace or the educational environment is unacceptable conduct. Sexual harassment is subject to discipline, up to and including separation from the institution.

B. Definition -- Sexual harassment is defined for this policy as either:

1. Unwelcome sexual advances or requests for sexual activity by a University employee in a position of power or authority to a University employee or a member of the student body, or

2. Other unwelcome verbal or physical conduct of a sexual nature by a University employee or a member of the student body to a University employee or a member of the student body, when:
   a. Submission to or rejection of such conduct is used explicitly or implicitly as a condition for academic or employment decisions; or
   b. The purpose or effect of such conduct is to interfere unreasonably with the work or academic performance of the person being harassed; or
   c. The purpose or effect of such conduct to a reasonable person is, to create an intimidating, hostile, or offensive environment.

C. Non-Retaliation -- This policy also prohibits retaliation against any person who brings an accusation of discrimination or sexual harassment or who assists with the investigation or resolution of sexual harassment. Notwithstanding this provision, the University may discipline an employee or student who has been determined to have brought an accusation of sexual harassment in bad faith.

D. Redress Procedures -- Members of the University community who believe they have been sexually harassed may seek redress, using the following options:

1. Pursue appropriate informal resolution procedures as defined by the individual campuses. These procedures are available from the campus Affirmative Action/Equal Opportunity Officer.
2. Initiate a complaint or grievance within the period of time prescribed by the applicable grievance procedure. Faculty are referred to Section 370.010, "Academic Grievance Procedures"; staff to Section 380.010, "Grievance Procedure for Administrative, Service and Support Staff" and students to Section 390.010, "Discrimination Grievance Procedure for Students." Pursuing a complaint or informal resolution procedure does not compromise one's rights to initiate a grievance or seek redress under state or federal laws.

E. Discipline -- Upon receiving an accusation of sexual harassment against a member of the faculty, staff, or student body, the University will investigate and, if substantiated, will initiate the appropriate disciplinary procedures. There is a five year limitation period from the date of occurrence for filing a charge that may lead to discipline.

An individual who makes an accusation of sexual harassment will be informed:

1. at the close of the investigation, whether or not disciplinary procedures will be initiated; and

2. at the end of any disciplinary procedures, of the discipline imposed, if any.

Auxiliary Aids for Students with Disabilities (240.020)

240.040 Policy Related to Students with Disabilities

240.040 Policy Related to Students with Disabilities
Executive Order No. 21, 11-1-84; Amended 2-25-97. (reviewed September 29, 2004)

A. EQUALITY OF ACCESS—The University of Missouri (UM) strives to assure that no qualified person with a disability shall, solely by reason of the disability, be denied access to, participation in, or the benefits of any program or activity operated by UM. Each such qualified person shall receive reasonable accommodations to provide equally effective access to educational opportunities, programs, and activities in the most integrated setting appropriate unless provision of such reasonable accommodation would constitute an undue hardship on the university or would substantially alter essential elements of the academic program or course of study or would otherwise compromise academic standards. This policy shall apply to all programs, services, and activities of the university, including but not limited to recruitment, admissions, registration, financial aid, academic programs, advising, counseling, student health, housing and employment.

B. FEDERAL AND STATE LAWS—This policy is intended to be consistent with Section 504 of the Rehabilitation Act of 1973, which states that no recipient of federal financial assistance may discriminate against qualified individuals with disabilities solely by reason of disability. This policy is also intended to be consistent with the Americans with Disabilities Act of 1990 and the Missouri Human Rights Act.

1 From the U.S. Justice Department’s ADA Title II Technical Assistance Manual, Section II-2.8000: Qualified individual with a disability. In order to be an individual protected by Title II, the individual must be a "qualified" individual with a disability. To be qualified, the individual with a disability must meet the essential eligibility requirements for receipt of services or participation in a public entity’s programs, activities, or services with or without:

1) Reasonable modifications to a public entity's rules, policies, or practices;
2) Removal of architectural, communication, or transportation barriers; or
3) Provision of auxiliary aids and services.

The "essential eligibility requirement" for participation in many activities of public entities may be minimal. For example, most public entities provide information about their programs, activities, and services upon request. In such situations, the only "eligibility requirement for receipt of such information would be the request of it. However, under other circumstances, the "essential eligibility requirements" imposed by public entity may be quite stringent.

Illustration: The medical school at a public university may require those admitted to its program to have successfully complete specified undergraduate science courses.
C. FACILITIES—Each program or activity, when viewed in its entirety, shall be accessible to otherwise qualified and eligible students with disabilities. Facilities, or parts of facilities, constructed or renovated for UM use will be designed and built so that they are accessible to and usable by persons with disabilities, in accordance with the ADA Accessibility Guidelines or other accessibility standards properly adopted by the campus. Accessible on-campus housing and food service will be provided at the same cost and with the same program options to disabled students. When any UM classes, programs or activities are held in private facilities, thorough efforts shall be made to obtain facilities which are accessible.

D. COORDINATION OF PROGRAMS AND SERVICES FOR STUDENTS WITH DISABILITIES

1. Campus disability support service (DSS) offices or other designated campus units are responsible for coordination of programs, services, and classroom accommodations for qualified applicants for admission and qualified enrolled students with disabilities. Such coordination relates solely to disability issues. Determinations as to whether a student is otherwise qualified often will be based on the academic requirements developed by the faculty. Specific services available to qualified students with disabilities will be provided by the university in conformity with the requirements of federal and state law.

2. Determinations as to whether requested services and requested accommodations are required will be made initially by the Coordinator of DSS. Accommodation of the disability will be determined by the coordinator and faculty member, and if either disagrees with the prescripted accommodation, such disagreement shall be described in writing promptly and submitted to the Chancellor or his/her designee for resolution in a prompt manner.

3. Initial determinations and any disagreements submitted to the Chancellor or his or her designee will take into consideration all relevant factors including, but not limited to, the following:

   a. current documentation of the specific disability and of the need for the requested services or accommodations;

   b. the essential elements of the academic program or course of study being pursued;

   c. the fact that the law does not require a university to substantially alter essential elements of its academic program or course of study or to otherwise compromise its academic standards.

4. All students seeking disability-related services and/or accommodations must disclose the presence of a specific disability to DSS. Before receiving requested services and/or accommodations, the student will be required to provide the DSS office with current medical or other diagnostic documentation of a disability from a qualified physician or other qualified diagnostician, as well as current documentation of the need for accommodations. In cases where existing documentation is incomplete or outdated, students may be required to provide additional documentation at the student's expense.

5. It is the student's responsibility to self-identify, to provide current and adequate documentation of his/her disability, and to request classroom accommodations, through the DSS office. The appropriate documentation must be provided in a timely manner to ensure full resolution of accommodations prior to the student's entrance into the program or course of study. Documentation review and accommodations planning by DSS, including consultation with faculty and/or other campus entities that may be affected in providing accommodations, will be done on an individualized case-by-case basis.

6. Reasonable classroom accommodations will be provided to otherwise qualified and eligible students with disabilities who have self-identified and who have provided satisfactory documentation in support of their timely request for such accommodations, in compliance with federal and state mandates. These accommodations shall not affect the substance of the educational programs or compromise educational standards.

7. In addition to providing accommodations needed to ensure nondiscrimination in access to educational opportunities by otherwise qualified students with disabilities, the university is responsible for ensuring that no qualified disabled student is denied the benefits of or excluded from participation in a university program because of the absence of auxiliary aids, services, and/or other reasonable accommodations. Auxiliary aids, services, and/or other accommodations include but are not limited to interpreters (sign or oral), readers, scribes, adaptive equipment, and other appropriate services or equipment necessary for course or program accessibility.

8. While funding for accommodations to ensure equally effective access is provided by the university, funding for auxiliary aids, accommodations, and/or services in some instances may be shared with state vocational rehabilitation agencies. The law does not require
and the university does not provide prescription devices or other devices/services of a personal nature (e.g. personal attendants) for students with disabilities.

E. ESTABLISHMENT OF CAMPUS POLICIES—
Chancellors are directed to establish campus policies and/or procedures consistent with this order. These should cover, at a minimum, treatment of disability-related information and appropriate regard for confidentiality, responsibilities of students in applying for services through DSS, time-lines to assure that students make accommodation requests in a timely manner, guidelines to assure that disability documentation is reasonably current, a description of the process of individualized assessment of each student's disability documentation and accommodation request(s), the role of faculty in determining the essential elements of the academic program or course of study and the academic standards involved in the accommodations planning and review process within the context of academic program requirements, and processing of complaints and grievances including a procedure for appeal when faculty and/or academic administrators or administrators in other involved campus entities do not agree with the DSS on the requirements of this policy.

AIDS Policy Statement (280.030)

280.030 AIDS Policy Statement
Bd. Min. 6-24-88. (reviewed April 5, 2004)

A. Current knowledge indicates college and university students or employees with AIDS, ARC or a positive HIV antibody blood test do not pose a health risk to either students or employees in a usual academic or residential setting. The policy of the University of Missouri is to permit students and employees with AIDS to continue to engage in as many of their normal pursuits as their condition allows. Managers should be sensitive to the medical problem and ensure that such employees are treated consistently with the treatment of other employees. Students will be allowed to continue their enrollment and activities (including continued residency in student housing) as long as they continue to meet academic standards and medical evidence indicates their conditions are not a threat to themselves or others. Every effort will be made to maintain confidentiality at all times.

B. The University also has a legitimate interest in the welfare of all students, employees, and visitors to the campus. Every reasonable precaution will be taken to minimize the risk that an employee's or student's condition will present a health and/or safety hazard to others.

C. The University will not discriminate against individuals with HIV infection, AIDS or ARC, but this protection does not include individuals with secondary infections or diseases that would constitute a direct threat to the health or safety of others or who may because of the disease or infection be unable to perform duties of their employment. In such cases, the appropriate University personnel or student policy will determine what changes, if any, will be made in the student's or employee's academic or work program.

D. In the event of public inquiry concerning AIDS on campus, the Chancellor or the Chancellor's designee will provide appropriate information on behalf of the University. Existing policies regarding confidentiality of employee and student records will be followed.

E. Consistent with its concern for students and employees with AIDS, the University offers a range of resources through the AIDS Task Force on each campus and through other campus and UM services.

1. Student, employee, and management education and information;
2. Referral to agencies and organizations that offer supportive services for life-threatening illnesses;
3. Consultation to assist employees in effectively managing health, leave and other benefits.

F. The AIDS Task Force on each campus will continue to meet periodically to review and update policy and to make recommendations as new medical facts become available. Each Task Force will continue to encourage programs to educate all members of the campus community about the reality of AIDS.

G. To address specialized campus needs, each campus is authorized to adopt and implement special policies related to AIDS which are consistent with this policy statement.

Affirmative Action on Committee Appointment (330.070)

330.070 Affirmative Action on Committee Appointments

Executive Guideline No. 13, October 31, 1977. (reviewed April 7, 2004)

A. Affirmative Action -- As a part of the implementation of the Affirmative Action Plan of the University of Missouri, any person appointing any committee for the University or any campus, in selecting the membership, shall give due consideration to the inclusion in such
Discrimination Grievance Procedure for Students (390.010)

390.010 Discrimination Grievance Procedure for Students


A. General

1. It is the policy of the University of Missouri to provide equal opportunity for all enrolled students and applicants for admission to the University on the basis of merit without discrimination on the basis of their race, color, religion, sex, sexual orientation, national origin, age or disability, or Vietnam era veteran status. Sexual harassment shall be considered discrimination because of sex. This policy shall not be interpreted in such a way as to violate the legal rights of religious organizations or military organizations associated with the Armed Forces of the United States of America.

2. To insure compliance with this policy, all University of Missouri prospective or enrolled students shall have available to them this student discrimination grievance procedure for resolving complaints and/or grievances regarding alleged discrimination.

3. This grievance procedure neither supersedes nor takes precedence over established University procedures of due process for any and all matters related to Academic Dishonesty, Grade Appeals, Traffic Appeals, Disciplinary Appeals, or other specific campus procedures which are authorized by the Board of Curators and deal with faculty/staff responsibilities.

4. These proceedings may be terminated at any time by the mutual agreement of the parties involved.

NOTE: A grievance concerning specific incidents filed under this discrimination grievance procedure shall not be processed on behalf of any student who elects to utilize another University grievance procedure. In addition, the filing of a grievance under these procedures precludes the subsequent use of other University grievance or appeals procedures for the same incident.

B. Definitions

1. A complaint is an informal claim of discriminatory treatment. A complaint may, but need not, constitute a grievance. Complaints shall be processed through the informal procedure herein set forth.

2. A grievance is the written allegation of discrimination which is related to:

   a. Recruitment and admission to the institution.
   b. Admission to and treatment while enrolled in an education program.
   c. Employment as a student employee on campus.
   d. Other matters of significance relating to campus living or student life, including, but not limited to:
       Assignment of roommates in resident halls
       Actions of fraternities and sororities
       Membership in and/or admission to clubs/organizations
       Student Health Services
       Financial aid awards

3. A student is any person who has applied for admission or readmission, or who is currently enrolled, or who was a student of the University of Missouri at the time of the alleged discrimination.

4. Persons with disabilities -- For the purpose of this student discrimination grievance procedure, a "person with a disability" has been substituted for "handicapped individual" (Section 504, Rehabilitation Act of 1973) and shall be defined as "...any person who"

   a. Has a physical or mental impairment which substantially limits one or more of such person's major life activities.
   b. Has a record of such impairment, or
   c. Is regarded as having such an impairment.

   For purpose of this definition, "major life activity" means any mental or physical function or activity which, if impaired, creates a substantial barrier to employment and/or education.

   Any reference in this document to written materials or to written oral presentations within the student discrimination grievance procedure may be adjusted to accommodate persons with disabilities for
whom the stated materials or required presentations would not be appropriate. Cost of such accommodation will be borne by the University, with no charge to the individual.

5. **Appropriate Administrative Officer** -- The primary administrative officer on the staff of the Chancellor (in the area of Student Affairs/Services, Administrative Services, Development, and Academic Affairs) having administrative responsibility for the unit in which the discrimination is alleged to have occurred.

6. **Grievance Consultant** -- At any step the Director of Equal Opportunity or of Affirmative Action may be asked to serve as a consultant by any of the parties involved in this grievance procedure.

C. **Complaints**

1. **Policies and Procedures** -- A student with a complaint will be provided with copies of appropriate policies and procedures pertaining to student complaints and grievances, and the Chief Student Personnel Administrator or his/her designee and the Office of Equal Opportunity or for Affirmative Action shall be available to assist the student in understanding the opportunities afforded through such policies and procedures. The student may choose to have an advisor participate in any stage of the grievance procedures, subject to the restrictions of the hearing procedures set forth in Section 390.010.

2. **Joint Complaint** -- If more than one student is aggrieved by the same action, these students may, by mutual written agreement among themselves, file with the Chief Student Personnel Administrator a complaint and pursue their complaints jointly under this grievance procedure. If the number of students in such a case is so large as to make it impracticable for them to be heard individually in a joint proceeding, they may, by mutual agreement, elect one or more of their number to act on behalf of them all.

3. **Students may** informally discuss a complaint with the relevant supervising administrator. Every reasonable effort should be made to resolve the matter informally at this administrative level. If a satisfactory resolution is not reached, the student may pursue the matter through each level of administrative jurisdiction up to and including the Appropriate Administrative Officer, or file a grievance within the time specified in D.1.b.

4. **Complaints Involving Recruitment**
   a. Undergraduate applicants must first present complaints about recruitment to the Director of Admissions. If a satisfactory resolution is not reached, the applicant may appeal to the immediate supervising officer of the Director of Admissions.
   b. Applicants for graduate study may request a meeting with the academic department head and the Dean of the College, or their designes, who are actually involved in the recruitment effort to discuss the matter informally. If a satisfactory resolution is not reached, the applicant may appeal to the Dean of the Graduate School and finally to the Appropriate Administrative Officer.

5. **Complaints Involving Admissions**
   a. Undergraduate and professional student applicants shall present complaints to the Director of Admissions or to the Dean of the School or College, depending upon where the application was originally filed.
   b. This University official shall compare the person's academic qualifications against the official University admissions criteria and review the denial. If the denial is sustained, officials' immediate supervisor or to the appropriate admissions committee.

6. **Complaints Involving Admissions (Graduate)** -- Applicants to the Graduate School may ask for a meeting with the academic department head of the program to which the applicant was seeking admission. This official shall explain the reasons for the denial of recommendation for admissions. If a satisfactory resolution is not reached, the applicant may then appeal to the Dean of the Graduate School or to the appropriate admissions committee. If the denial is upheld, the applicant may appeal the decision to the appropriate administrative officer.

7. **Complaints Involving Admissions to or Treatment in an Educational Program or in the Granting of Assistantships** -- An undergraduate or graduate student enrolled at the institution who has a discrimination complaint involving admission to or treatment in an educational program or in the granting of assistantships may request a conference with the appropriate department head and with the Dean of the School or College (or the Dean's designee) to discuss the matter informally. If a satisfactory resolution is not reached, the student may
present a grievance pursuant to Section 390.010 F.

8. Complaints Involving Nonacademic Matters Related to Campus Living and Student Life -- A currently enrolled student who has a University-related complaint concerning discrimination in nonacademic matters including but not limited to assignment of roommates, actions of fraternities and sororities, membership in and/or admissions to clubs/organizations, student health services and financial aid awards may request a conference with the appropriate administrative supervisor, department head and/or director to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

9. Complaints Involving Student Employment on Campus -- A student enrolled at the University who alleges that discrimination occurred either in applying for work or while working as a student employee at a University job may request a conference with the supervisor, department head or director of the employing unit to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

10. Complaints Involving Financial Aid (Undergraduate, Graduate, Professional):

   a. Undergraduate, graduate, and professional student aid applicants shall present complaints to the Director of Student Financial Aid where the application was originally filed or the award originally made.
   
   b. This University official shall compare the person's financial and academic qualifications against the official University financial aid criteria and review the award, amount, or denial of the aid. If the original judgment is sustained, the applicant may appeal this decision to the official's immediate supervisor or to the appropriate financial aid committee.

D. Initiating a Grievance

1. Policies and Procedures -- A student with a grievance will be provided copies of appropriate polices and procedures pertaining to student complaints and grievances, and the Chief of Student Personnel Administrator or designee and the Office for Equal Opportunity or for Affirmative Action shall be available to assist the student in understanding the opportunities afforded through such policies and procedures. The student may choose to have an advisor participate in any stage of the grievance procedure, subject to the restrictions of the hearing procedures set forth in Section 390.010 F.

   a. Joint Grievance -- If more than one student is aggrieved by the same action, these students may, by mutual written agreement among themselves, file with the Chief Student Personnel Administrator a grievance and pursue their grievances jointly under this grievance procedure. If the number of students in such a case is so large as to make it impractical for them to be heard individually in a joint proceeding, they may, by mutual agreement, elect one or more of their number to act on behalf of all of them.
   
   b. Regardless of their nature, all discrimination grievances are to be filed with the Chief Student Personnel Administrator. A grievance must have been filed by a student within one-hundred-eighty (180) calendar days of the date of the alleged discriminatory act.

2. Filing a Grievance

   a. All grievances must be presented in writing and contain the following information:
      
      1) A clear concise statement of the grievance which includes the name of the person(s) against whom the grievance is made, the date(s) of the alleged discrimination and a statement describing the specific supporting evidence;
      
      2) A brief summary of the prior attempts to resolve the matter which includes the names of persons with whom the matter was discussed and the results of those previous discussions;
      
      3) A specific statement of the remedial action or relief sought.

   b. Within seven (7) working days, the original grievance form with an explanation will be returned to the student if, in the judgment of the Chief Student Personnel Administrator, the statements are vague or do not meet the above requirement. The student may make the necessary corrections, and resubmit the grievance within seven (7) days.

3. Any grievance not filed within the time limits specified in Section 390.010 D.1.b shall be deemed waived by the grievant. The Chief Student Personnel Administrator may extend the
time limits only if adequate cause for an
extension of the time limits can be shown by the
student.

4. For informational purposes, copies of the
 grievance shall be forwarded to the Appropriate
Administrative Officer and the Director of Equal
Employment and/or Affirmative Action.

5. Within fifteen (15) working days of receipt of a
grievance that satisfies the requirement of
Section 390.010 D.1.b, the Appropriate
Administrative Officer with the consent of the
parties involved may establish an informal
hearing with the aggrieved student, the
responding faculty/staff/organization, the
respondent's supervisor and the Appropriate
Administrative Officer's designee. The
Appropriate Administrative Officer shall not
involve himself/herself in this meeting. If the
informal means of resolving the grievance fails, a
grievance committee will be impaneled as called
for in Section 390.010 E.1.

E. Formation of Grievance Committee

1. It shall be the responsibility of the Appropriate
Administrative Officer's
responsibility to initiate the selection of the
grievance committee within fifteen (15) working
days after the request for the formation of a
grievance committee or after the completion of
the informal hearing provided for in Section
390.010 F.5 without satisfaction to the grievant.

2. A grievance hearing panel shall be established
by October 1 of each year from which a
grievance committee should be constituted. The
panel shall consist of ten (10) faculty, ten (10)
staff and ten (10) students. Selection of the panel
will be made by the Chief Student Personnel
Administrator from recommendations by the
appropriate faculty, staff and student
associations. Selection of membership will
consider sex, race, disability, academic rank,
student classification and employee
classification. Membership on the hearing panel
shall be for two years. A member's term shall
expire on September 30 of the second year
unless he/she is serving at that time on a hearing
committee still in the process of reviewing an
unresolved grievance. In such case, the
member's term shall expire as soon as the
committee has submitted a written report of its
findings and recommendations to the Appropriate
Administrative Officer.

3. A hearing committee shall be composed of five
(5) members. The grievant shall select two (2)
members from the grievance hearing panel
provided by the Chief Student Personnel
Administrator. The responding
faculty/staff/organization shall select two (2)
members from the grievance hearing panel. Both
parties should have their selection made within
15 working days of the receipt of the request. The
four committee members shall then select an
additional member from the grievance hearing
panel to serve as chair. Neither members of the
immediate departmental unit nor student
members of pertinent student organizations
involved in the grievance shall be eligible to serve
on the committee.

4. Any person selected to a grievance committee
will be expected to serve on such committees
and to be present at all sessions. If a member is
absent from a single session, he/she will be
required to review all tapes or transcribed
proceedings of that session prior to the next
meeting of the committee. Should a member be
absent from two sessions or should a member
request to be excused from service for reasons of
illness, necessary absence from the campus or
other hardship, then the member shall be
replaced in the same manner used in the original
selection (see Section 390.010 E.3). If a member
is unable or ineligible to serve for whatever
reason, the replacement shall review all tapes or
written transcripts and all submitted evidence
prior to service on the committee. Five members
of the hearing committee, duly selected as in
Sections 390.010 E.3 and E.4 must attend the
opening and closing session of the hearing.

F. Hearing Procedures for Formal Grievances

1. It shall be the responsibility of the Appropriate
Administrative Officer to coordinate the
procedure contained herein, to make provisions
for hearing rooms, to coordinate secretarial and
recording services and to otherwise serve the
grievance committee as needed.

2. At the first organizational meeting of the
grievance committee, the committee shall elect a
chairperson from among the members to preside
over subsequent meetings. Then the chairperson
shall schedule a hearing at the earliest
convenient time when all affected parties can be
present.

3. A quorum consists of a minimum of four
members of the committee except as provided by
Section 390.010 E.4.

4. The grievance committee shall invite the grievant
and the responding person to all hearings.
Attendance at the hearings shall be limited to
persons who have an official connection with the
case as determined by the chairperson. The
grievant and the responding person may choose
to be accompanied by an advisor. Others whose
participation in the hearing is considered
essential in order to assist the committee in
establishing the facts of the case shall appear
before the committee only long enough to give testimony and to answer questions of committee members.

5. It is within the duties and responsibilities of all members of a grievance committee to commit themselves to observe procedures consistent with fairness to all parties concerned. For example, it is a matter of principle that members of the grievance committee will not discuss a case with anyone outside of the hearing process and that their finding will not be influenced by anything other than the evidence presented to them in meetings in which all affected parties are present.

6. The grievance committee shall set forth the rules of procedure for the hearing within the guidelines set forth herein. The chairperson may, for good cause and with the concurrence of a majority of the entire committee, authorize deviation from the suggested format, in which case the principal parties shall be notified.

   a. The grievant shall be heard first in all phases of a grievance hearing and shall be primarily responsible for the presentation of his/her position.

   b. The advisor of the grievant or respondent may advise that person and may briefly explain his or her position but shall not be permitted to testify or to cross-examine.

   c. A reasonable time limit should be established for opening and closing statements and shall be announced prior to the hearing.

   d. Length of hearing sessions may be established in advance; every effort should be made to conduct the hearing as expeditiously as possible, with equal fairness to both parties.

   e. The interested parties shall provide the chairperson with the names of the advisor and potential witnesses at least forty-eight (48) hours prior to the hearing. It is the responsibility of the interested party, working with the chairperson, to ensure the presence of these individuals in a timely manner.

   f. After initial witnesses for both parties have been heard, such witnesses may be recalled for additional questioning if requested by either party or the grievance committee. The committee may call new witnesses whose testimony it deems relevant or helpful.

   g. In order to promote the truthful, unfettered exchange of information and ideas, all testimony pertaining to the grievance hearing shall be held in confidence.

   h. Only evidence relevant to the grievance may be introduced. Questions regarding the admissibility of evidence shall be decided by the chairperson.

7. At any point in the proceedings prior to the time at which the committee reaches its final decision, the grievant may withdraw any portion or all of the grievance with the consent of a majority of the committee members and of the respondent. In all cases of withdrawal at the consent of the committee and of the respondent, the grievant shall not have the privilege of re-opening the same grievance at any time in the future. In the event that the student refuses to participate further in the committee hearing, the committee may choose to continue the case or to move to closure with an appropriate closing statement as per Section 390.010 F.9.

8. A confidential tape recording of the grievance hearing shall be made and will be accessible to the parties involved, the committee, the Appropriate Administrative Officer, the Chancellor, the President, members of the Board of Curators and authorized representatives on a need-to-know basis. Either party to the grievance may request that the committee provides a written transcript of testimony. The cost of preparation of such a transcript is to be paid by the party making such request unless Section 390.010 B.4 is applicable. After the report of the grievance committee has been prepared, the tapes and relevant materials will be sealed and filed in the Appropriate Administrative Office. Unless extraordinary circumstances apply, these materials will be destroyed at the end of five years.

9. At the conclusion of the grievance hearing, the members of the grievance committee shall meet in closed session to deliberate upon their findings. A majority vote of the entire committee shall be required on all decisions. The grievance committee shall make a written report on findings and recommendations to the Appropriate Administrative Officer of the University, with copies to the grievant(s) and the responding person(s). The written report will contain:

   a. A statement of the purpose of the hearing,

   b. Issues considered,

   c. A summary of the testimony and other evidence presented,

   d. Findings of fact as developed at the hearing, and

   e. Recommendations for final disposition of the case.

10. The Appropriate Administrative Officer will make his/her decision. This decision and the actions
that have been taken shall be presented to both parties in writing. If the administrator officer does not accept the recommendations of the grievance committee, a written statement of the reasons for so ruling must be given to both parties and to the chairperson of the committee.

11. If requested by the grievant or the responding party, normally within seven (7) calendar days of the notification of the decision, the decision of the Appropriate Administrative Officer may be subject to a review of the records by the Chancellor. Any review and decision by the Chancellor shall be made normally within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, who shall have thirty (30) calendar days in which to make a decision, which shall be final.

12. Grievances shall receive prompt attention. The hearing and the report of the grievance committee shall normally be completed within sixty (60) calendar days of the formation of the grievance committee, and a final decision shall be made by the Appropriate Administrative Officer normally within ten (10) calendar days thereafter. In any case in which these time schedules should prove to be inadequate, the committee shall present, in writing, an amended time schedule to all parties involved.

The format for filing a student discrimination is located at http://www.umsystem.edu/ums/departments/gc/rules/grievance/390/010.shtml.
Profile

Name: University of Optometry
College of Optometry

Address: One University Boulevard
St. Louis, Missouri 63121-4400

Location: South Campus Complex of the University of Missouri-St. Louis

History: UM-St. Louis, the fourth campus of the University of Missouri was established in 1963.

The College of Optometry was established in 1980; graduated its first class in May 1984.

Programs: Doctor of Optometry (O.D.)
Master of Science (M.S.) in Vision Science
Doctoral (Ph.D.) in Vision Science
Hospital Based Optometric Residency
Residency Program in Contact Lenses
Residency in Pediatrics and Binocular Vision
Residency in Low Vision Rehabilitation
Residency Program in Ocular Disease and
Eye Health-Management at Eye Health Care
Combined Postgraduate Clinical Fellowship and
M.S. Degree

Class Size: 44

Faculty/Student Ratio: 1:6

Clinical Facilities: UM-St. Louis
South Campus Complex
University Eye Center
Optometric Center of St. Louis
East St. Louis Optometric Center
Harvester Eye Center

Specialty Clinics: Low Vision Rehabilitation
Pediatric/Binocular Vision
Contact Lens
Eye Health Management
Specialized Visual Analysis (which includes electoretinography, visual evoked potential, contrast sensitivity, dark adaptation and glare recovery, color vision and temporal resolution, and special tests of retinal and optic nerve function tailored for the particular patient's needs)

Accreditation: Accreditation Council on Optometric Education of the American Optometric Association (ACOE)
243 North Lindbergh
St. Louis, MO 63141
Next site visit is scheduled for November, 2015
# Academic Calendar for 2010-2011

## 2009 Fall Semester

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August</td>
<td>23</td>
<td>Monday, classes begin 8:00 a.m.</td>
</tr>
<tr>
<td>September</td>
<td>6</td>
<td>Monday, Labor Day Holiday</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>Tuesday, classes resume 8:00 a.m.</td>
</tr>
<tr>
<td>November</td>
<td>20</td>
<td>Saturday, Fall Break (Thanksgiving holiday) begins 5:00 p.m.</td>
</tr>
<tr>
<td></td>
<td>29</td>
<td>Monday, classes resume 8:00 a.m.</td>
</tr>
<tr>
<td>December</td>
<td>11</td>
<td>Saturday, classes end 5:00 p.m.</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>Monday, final examinations begin</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>Saturday, Fall Semester closes, end of day</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>Saturday Fall Commencement</td>
</tr>
</tbody>
</table>

## 2010 Spring Semester

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>3</td>
<td>Monday, 4th year clinic begins at all sites</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>Monday, 3rd year classes, clinics, laboratories begin 8:00 a.m.</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>Monday, Martin Luther King Holiday</td>
</tr>
<tr>
<td>March</td>
<td>18</td>
<td>Tuesday, classes begin 8:00 a.m.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Monday, 3rd year NBEO study break begins (all clinic responsibilities continue)</td>
</tr>
<tr>
<td></td>
<td>16 &amp; 17</td>
<td>Wednesday &amp; Thursday, NBEO Part I Exam (3rd year targeted exam dates)</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>Friday, 3rd year classes resume</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>Saturday, Internal Spring recess begins 5:00 p.m.</td>
</tr>
<tr>
<td>April</td>
<td>4</td>
<td>Monday, classes resume 8:00 a.m.</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>Thursday, Clinic privileging exam (tentative)</td>
</tr>
<tr>
<td>May</td>
<td>7</td>
<td>Saturday, classes end 5:00 p.m.</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>Monday, final examinations begin</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>Friday, orientation to clinic for 2nd year students (time to be announce)</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>Saturday, Spring Semester closes, end of day</td>
</tr>
<tr>
<td></td>
<td>14 &amp; 15</td>
<td>Saturday, Spring Commencement</td>
</tr>
</tbody>
</table>

## 2010 Summer Semester

### Session I (4 weeks)

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May</td>
<td>16</td>
<td>Monday, classes begin 8:00 a.m.</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>Monday, Memorial Day holiday</td>
</tr>
<tr>
<td>June</td>
<td>11</td>
<td>Saturday, session closes, end of day</td>
</tr>
</tbody>
</table>

### Session 2 (4 weeks)

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June</td>
<td>13</td>
<td>Monday, classes begin 8:00 a.m.</td>
</tr>
<tr>
<td>July</td>
<td>4</td>
<td>Monday, Independence Day holiday</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>Saturday, session closes, end of day</td>
</tr>
</tbody>
</table>

### Session 3 (4 weeks)

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>11</td>
<td>Monday, classes begin 8:00 a.m.</td>
</tr>
<tr>
<td>August</td>
<td>6</td>
<td>Saturday, session closes, end of day</td>
</tr>
</tbody>
</table>

**Final examinations are held during the last class meeting of Summer Sessions 1, 2 & 3**

### Session 4 (8 weeks)

| May   | 16 – July 9 | (Summer Sessions 1 & 2, above) |
| July  | 6, 7, 8, & 9 | Final Examinations              |

### Session 5 (8 weeks)

| June  | 13 – August 6 | (Summer Sessions 2 & 3, above) |
| August| 3, 4, 5, & 6  | Final Examinations              |

### Session 6 (12 weeks)

| May   | 16 – August 6 | (Summer Sessions 1, 2, & 3, above) |
| August| 3, 4, 5, & 6  | Final Examinations              |
| August| 6            | Saturday Summer Commencement    |

Note: Students will not be allowed to enter courses (undergraduate and/or graduate) following the first week of a regular semester without the written consent of the instructor.

[http://www.umsl.edu/services/academic/publications/academic_calendar.html](http://www.umsl.edu/services/academic/publications/academic_calendar.html)
University of Missouri - St. Louis Campus Map

www.umsl.edu/misc/maps/maps.html

Anheuser - Busch Ecology and Conservation Complex 18
Alumni Center 21
Barnes Library 29
Benton Hall (Bii) 17
Bellgie Hall 36
Blanche M. Touchett Performing Arts Center 55
Boiler House 32
Clark Hall (CCH) 5
Computer Center Building (CCB) 10
Dee Lee Technology & Learning Center 37
Education Administration Building (EAB) 28
Fine Arts Annex 65
Fine Arts Building 44
General Services Building 8
J. C. Penney Building Conference Center 2
Kathy J. Winternitz Advocacy Center 34
Lucas Hall (LH) 6
Mark Twain/Atletic & Fitness Center 9
Marriott Hall/Optometry Clinic 26
Music Building (MB) 25
Millennium Student Center/Admissions 4
Millennium Student Center Garage North 54
Millennium Student Center Garage South 15
Nursing Administration Building 40
Observatory 35
Paking and Transportation Building 70
Police Station 7
Provincial House / Honor College 41
QT Storage Facility 57
Regional Center for Education & Work 43
Research Building (RB) 18
Seton Hall 39
Social Sciences & Business Building/Tower (SSB) 11
South Campus Classroom Building (SCB) 30
South Campus Computer Building 31
Stedler Hall (SH) 20
St. Louis Mercantile Library 12
Thomas Jefferson Library 14
University Center 3
University Inn and Administrative Services 38
University Meadow Apartments 37
Villa Building 48
West Drive Parking Structure South 92
William L. Clay Center for Molecular Electronics 16
Woods Hall 1

Transportation Designation:
- Emergency Phone
- Bus Stop
- Accessible Parking
- MetroLink Station
- Parking Facilities

Lot

Students: C E I N S T U V Y Z A S J D K L U
Faculty / Staff: A B C E J K L M N P R S V Y Z A A C J L L P M P C

Continuing Education: C

Special Permit: A B E C E and University Meadows and 78 Enthusiast Rd
Guest / Visitor: Request a Parking Permit at Parking and Transportation Department. visitor parking 8 a.m. to 5:30 p.m. on weekdays or visitor parking except on restricted area.

Special Permit Requiring: Both Faculty / Staff Permit and Special Permit

Garages: MSC North, MSC South and West Plaza Available for Students and Faculty
## Index

### A
- **Academic Calendar for 2010-2011**, 88
- **Academic Policy**, 50
- Academic Program, 23
- Academic Promotion and Management of Students in Academic Difficulty, 51
- Accreditation, 13
- Addendum, 92
- **Administration, Faculty, and the Leadership Council**, 61
  - Admission Guidelines for Entering First Professional Year Students, 32
  - Admission Process, 32
  - Admission Requirements, 30
  - Admission Test, 30
- **Admission, Application, Selection, Acceptance**, 30
  - Affirmative Action on Committee Appointments, 80
  - AIDS Policy Statement, 80
- **Appendix**, 66
  - Appendix Contents, 66
  - Application Deadlines, 31
  - Application Procedures, 30
  - Auxiliary Aids for Students with Disabilities, 78

### B
- Bookstore, 44

### C
- **Campus Map**, 89
- Campus Shuttles, 44
- Campuswide Student Government, 48
- Center for Eye Care, 15
- Child Development Center, 45
- Clinical (Patient Care) Grading Criteria, 51
- Clinical Privileges, 51
- Code of Student Conduct, 67
- Combined Postgraduate Clinical Fellowship and M.S. Degree, 59
- Commencement Exercises, 53
- Confidentiality Policy, 54, 66
- Contact Lens Service, 15
- **Continuing Education**, 60
- Counseling, 47
- Course Descriptions, 25, 56
- Course Waivers, 52
- Credit Hours, 50
- **Curricular Outcomes**, 22
- Curriculum Changes, 52
- **Curriculum**, 23
- **Curriculum Addendum**, 92

### D
- Dean’s List/Dean’s List with Honor, 53
- Delayed Grade, 51
- Delinquent Indebtedness, 34
- Discrimination Grievance Procedure for Students, 81
- Dispensary Service, 16
- Doctor of Philosophy in Vision Science (Ph.D.), 56
- Drug and Alcohol Prevention Program, 45

### E
- Education Fees, 34
- Educational Philosophy, 12
- Elective Course Requirement, 52
- Elective Courses in the College of Optometry, 24
- Eligibility for Financial Aid, 36
- Emergency Motorist Assist, 44
- Emergency Phones, 44
- Entry Level Standards, 22
- Estimated Cost of Education, 35
- Eye Health Management Service, 16

### F
- Facilities, 13
- **Faculty**, 17
- Failed Course, 51
- Federal Work-Study (WFS), 36
- **Fees & Estimated Cost of Education**, 34
- **Financial Aid**, 36
  - Financial Aid Appeal(s), 37, 74
  - Financial Aid Application Process, 36
  - Fourth Year Externship Program, 16
  - Four-Year Professional Degree (O.D.) Curriculum, 23

### G
- Goals, 13
- Grade Point Average (GPA), 51
- Grades/Graduation Requirement, 52
- Graduate Degrees, 55
- **Graduate Studies**, 55
  - Graduate Vision Science Courses Approved for Elective Credit, 24
- **Graduation Awards**, 42
  - Graduation with Honors, 53
  - Grievance about Grade, 74

### H
- Health and Fitness Facilities, 45
- Health Risks, 46
- History, 12
- Hospital Based Optometric Residency Kansas City Veterans Affairs Medical Center, 58
- Hospital Based Optometric Residency Marion Veterans Affairs Medical Center in Marion, IL, 58
- Hospital Based Optometric Residency St. Louis Veterans Affairs Medical Center, 58
- Hospital Based Optometric Robert J. Dole Veterans Affairs Medical Center, 58
- Hospital Based Pediatric Optometry Residency, Children’s Mercy Hospital and Clinic Kansas City, MO, 58
- Housing, 46
# Table of Contents

**I**
- Immunization, 32
- Index, 90
- Information Technology Services, 44
- International Students, 31
- International Student Services, 47
- Introduction to UM-St. Louis, 9

**L**
- Late Registration Fee, 34
- Leadership Council, 61
- Leave of Absence, 53
- Legal Sanctions, 46
- Libraries, 13
- Licensure, 60
- Loans, 37
- Low Vision Service, 15

**M**
- Maintaining a Positive Work and Learning Environment, 68
- Master of Science in Vision Science (M.S.), 55
- MetroLink Pass Program, 44
- Millennium Student Center, 44
- Minority Affairs, 47
- Mission Statement, 3
- Mission Statement—UM-St. Louis, 9

**N**
- Nebraska Contract Agreement, 35
- New Student Orientation Program, 47
- Non-Clinical Grading Criteria, 50

**O**
- Office of Student Services, 43
- Optometric Oath, 7
- Optometry: The Profession, 8
- Our Graduates, 14

**P**
- Parking, 444
- Patient Care, 15
- Pediatric/Binocular Vision Service, 15
- Personal Checks, 34
- Placement, 47
- Policy on Hazing, 76
- Positive Work and Learning Environment, 50, 68
- Pre-Optometry Programs, 32
- Profile, 87
- Pupil Project, 15

**R**
- Research, 16
- Residency in Pediatrics and Binocular Vision, 58
- Residency Program in Cornea/Contact Lens, 59
- Residency Programs and Clinical Fellowships, 58
- Residency, 32
- Resources, 46
- Retention, 53

**S**
- Scholarships, Fellowships, and Grants, 38
- College of Optometry Code of Conduct, 50, 67
- College of Optometry, 12
- Selection Procedures, 31
- Service to Students with Disabilities, 47, 78
- Sexual Harassment, 77
- Smoke-Free Campus Policy, 46
- Standards of Conduct, 46
- State Reciprocal Agreement, 34
- Student Activities/Organizations, 48
- Student Computing Services, 45
- Student Disciplinary Matters, 69
- Student Organization Policy, 75
- Student Organizations, 48
- Student Services, 43, 44

**T**
- Table of Contents, 4
- The University: Academic Structure, 9
- The University: Accreditation, 11
- The University: It’s Graduates, 11
- The University: Student Life, 11
- Third Year Patient Care Service, 15
- “3+4” Scholars Program, 32
- Time Limitations, 51
- Transcripts, 53
- Transfer Students, 53
- Tutorial Service, 47

**U**
- University Discipline, 46
- University Eye Center, 13
- University Health Services, 45
- University of Missouri Plan for Equal Opportunity and Affirmative Action, 77
- Upperclass Student Advisory Program, 47

**V**
- Values Statement, 3
- Veteran Affairs, 47
- Veterans Benefits, 37
- Vision, Mission, and Values Statement, 3
- Vision Science, 55
- Visions Statement, 3

**W**
- Withdrawal from the University, 53
Curriculum Addendum

Classes of 2013‡ and 2014‡

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8010</td>
<td>Anatomy, Physiology and Disease Processes I</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8020</td>
<td>Geometric Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8030</td>
<td>Introduction to Optometry</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8040</td>
<td>Neuroanatomy</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8060</td>
<td>Biochemistry</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8090</td>
<td>Case Based Discovery for the Developing Clinician</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8350</td>
<td>Epidemiology</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year</th>
<th>Spring Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8090</td>
<td>Case Based Discovery for the Developing Clinician</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8110</td>
<td>Anatomy, Physiology and Disease Processes II</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8120</td>
<td>Ocular Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8140</td>
<td>Physical Optics and Photometry</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8160</td>
<td>Anatomy and Physiology of the Eye</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8180</td>
<td>Clinical Optometry I</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8220</td>
<td>Ophthalmic Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8230</td>
<td>Interpersonal Communications</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8240</td>
<td>Ocular Motility</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8250</td>
<td>Monocular Sensory Processes</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8260</td>
<td>Foundations of Ocular and Systemic Disease and Management I</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8280</td>
<td>Clinical Optometry II</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Spring Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8320</td>
<td>Ophthalmic Dispensing</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8340</td>
<td>Binocular Vision and Space Perception</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8370</td>
<td>Foundations of Ocular and Systemic Disease and Management II</td>
<td>7</td>
<td>6</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8380</td>
<td>Clinical Optometry III</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8390</td>
<td>Introduction to Specialty Clinic Laboratory</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8391</td>
<td>Introduction to Contact Lenses</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8392</td>
<td>Introduction to Pediatric Optometry</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8393</td>
<td>Low Vision I</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8560</td>
<td>Public Health</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fall Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8500</td>
<td>General Clinic I</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>8520</td>
<td>Contact Lenses I</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8540</td>
<td>Binocular Vision Anomalies</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8550</td>
<td>Low Vision II</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8570</td>
<td>Advanced Topics In Ocular and Systemic Disease Management</td>
<td>6</td>
<td>5</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8650</td>
<td>Geriatric Optometry</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Spring Semester</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8600</td>
<td>General Clinic II</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>8610</td>
<td>Environmental Vision</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8620</td>
<td>Contact Lenses II</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8630</td>
<td>Practice Management III</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8640</td>
<td>Pediatric Optometry</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8660</td>
<td>Contact Lens Specialty Clinic</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>8670</td>
<td>Ocular Assessment</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8680</td>
<td>Ophthalmic Lasers</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8690</td>
<td>Pediatric/Binocular Vision Specialty Clinic</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 1 UM-St. Louis</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8700</td>
<td>UM-St. Louis Pediatric/ Binocular Vision Patient Care</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>8710</td>
<td>UM-St. Louis Contact Lens Patient Care</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>8720</td>
<td>UM-St. Louis Eye Health Management Patient Care</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 2 Institutional</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8780</td>
<td>External Rotation in Institutional Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Category 3 Ocular Disease</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8790</td>
<td>External Rotation in Ocular Disease Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

‡ Due to advances in the optometric profession, sequencing of courses may change. The courses listed above are subject to change through normal academic procedures. This addendum lists curriculum changes that may affect your program sequencing.

† Every two (2) lab hours and every two (2) clinic hours is equivalent to one (1) credit hour.

‡ Due to advances in the optometric profession, sequencing of courses may change. The courses listed above are subject to change through normal academic procedures. This addendum lists curriculum changes that may affect your program sequencing.

† Every two (2) lab hours and every two (2) clinic hours is equivalent to one (1) credit hour.
### Fourth Year Category 4 Intern

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8730 Optometric Center Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8750 East St. Louis Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8760 Harvester Eye Center Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8770 Community Service in Rotation in Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Fourth Year Category 5 Specialty

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8800 External Rotation in Pediatric/Binocular Vision Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8810 External Rotation in Contact Lens Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8811 External Rotation in Ophthalmic Surgical Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8812 External Rotation in Geriatric Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8813 External Rotation in Ophthalmic Sports Vision</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8814 External Rotation in Primary Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8815 External Rotation in Pathology and Treatment</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8816 External Rotation in Ophthalmic Laser Treatment</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8817 External Rotation in Rehabilitative Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8820 External Rotation in Low Vision Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Fourth Year Category 6 Elective

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8830 External Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8840 External Supplementary Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8850 Supplementary Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Fourth Year Required Courses

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8870 Practice Management IV</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8880 Clinic Seminar</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

### Graduate Vision Science Courses Approved for Elective Credit*

- 6400 Sensory Processes and Perception
- 6401 Visual Optics
- 6402 Ocular Anatomy and Physiology
- 6403 Psychophysical Methods and Experimental Design
- 6404 Sensory Neuroscience
- 6405 Neuroanatomy
- 6406 Geometric Optics
- 6455 Visual Information Processing
- 6458 Noninvasive Assessment of the Visual System
- 6459 Introduction to Computer Programming for Vision Research
- 6470 Individual Studies in Vision Science
- 6490 Graduate Research in Vision Science
- 6497 Interdisciplinary Geriatric Care
- 6499 Current Topics in Optometry and Vision Science

### Elective Courses in the College of Optometry

- 8400 Directed Readings
- 8410 Directed Research
- 8420 Ocular Photography
- 8440 Clinical Applications of Current Topics in Visual Science
- 8470 Case Studies in Ocular Disease
# Class of 2012‡

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td>Anatomy, Physiology and Disease Processes I</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Geometric Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Introduction to Optometry</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Neuroanatomy</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Biochemistry</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Case Based Discovery for the Developing Clinician</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Epidemiology</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td>Anatomy, Physiology and Disease Processes II</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Ocular Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Physical Optics and Photometry</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Anatomy and Physiology of the Eye</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Clinical Optometry I</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td>Ophthalmic Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Interpersonal Communications</td>
<td>2</td>
<td>2</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Ocular Motility</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Monocular Sensory Processes</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Foundations of Ocular and Systemic Disease and Management I</td>
<td>3</td>
<td>3</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Clinical Optometry II</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td>Ophthalmic Dispensing</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Binocular Vision and Space Perception</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Foundations of Ocular and Systemic Disease and Management II</td>
<td>7</td>
<td>6</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Clinical Optometry III</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Introduction to Specialty Clinic Laboratory</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Introduction to Contact Lenses</td>
<td>1</td>
<td>1</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Introduction to Pediatric Optometry</td>
<td>1</td>
<td>1</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Low Vision I</td>
<td>1</td>
<td>1</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Public Health</td>
<td>2</td>
<td>2</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

## Fourth Year

<table>
<thead>
<tr>
<th>Category 1 UM-St. Louis</th>
<th>Course</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8700</td>
<td>General Clinic I</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>8720</td>
<td>Contact Lenses I</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8740</td>
<td>Binocular Vision Anomalies</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8850</td>
<td>Low Vision II</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8870</td>
<td>Advanced Topics In Ocular and Systemic Disease Management</td>
<td>6</td>
<td>5</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8890</td>
<td>Geriatric Optometry</td>
<td>2</td>
<td>2</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

## Fourth Year

<table>
<thead>
<tr>
<th>Category 2 Institutional</th>
<th>Course</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8870</td>
<td>External Rotation in Institutional Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

## Fourth Year

<table>
<thead>
<tr>
<th>Category 3 Ocular Disease</th>
<th>Course</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8790</td>
<td>External Rotation in Ocular Disease Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

## Fourth Year

<table>
<thead>
<tr>
<th>Category 4 Intern</th>
<th>Course</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours†</th>
<th>Clinic Hours†</th>
</tr>
</thead>
<tbody>
<tr>
<td>8730</td>
<td>Optometric Center Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8750</td>
<td>East St. Louis Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8760</td>
<td>Harvester Eye Center Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8770</td>
<td>Community Service in Rotation in Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

---

‡ Due to advances in the optometric profession, sequencing of courses may change. The courses listed above are subject to change through normal academic procedures. This addendum lists curriculum changes that may affect your program sequencing.

† Every two (2) lab hours and every two (2) clinic hours is equivalent to one (1) credit hour.
<table>
<thead>
<tr>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 5 Specialty</td>
</tr>
<tr>
<td>8800 External Rotation in Pediatric/Binocular Vision Patient Care</td>
</tr>
<tr>
<td>8810 External Rotation in Contact Lens Patient Care</td>
</tr>
<tr>
<td>8811 External Rotation in Ophthalmic Surgical Care</td>
</tr>
<tr>
<td>8812 External Rotation in Geriatric Patient Care</td>
</tr>
<tr>
<td>8813 External Rotation in Ophthalmic Sports Vision</td>
</tr>
<tr>
<td>8814 External Rotation in Primary Care</td>
</tr>
<tr>
<td>8815 External Rotation in Pathology and Treatment</td>
</tr>
<tr>
<td>8816 External Rotation in Ophthalmic Laser Treatment</td>
</tr>
<tr>
<td>8817 External Rotation in Rehabilitative Patient Care</td>
</tr>
<tr>
<td>8820 External Rotation in Low Vision Patient Care</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 6 Elective</td>
</tr>
<tr>
<td>8830 External Rotation in General Patient Care</td>
</tr>
<tr>
<td>8840 External Supplementary Rotation in General Patient Care</td>
</tr>
<tr>
<td>8850 Supplementary Rotation in General Patient Care</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
</tr>
<tr>
<td>8870 Practice Management IV</td>
</tr>
<tr>
<td>8880 Clinic Seminar</td>
</tr>
</tbody>
</table>

**Elective Courses in the College of Optometry**

- 8400 Directed Readings
- 8410 Directed Research
- 8420 Ocular Photography
- 8440 Clinical Applications of Current Topics in Visual Science
- 8470 Case Studies in Ocular Disease

**Graduate Vision Science Courses Approved for Elective Credit**

- 6400 Sensory Processes and Perception
- 6401 Visual Optics
- 6402 Ocular Anatomy and Physiology
- 6403 Psychophysical Methods and Experimental Design
- 6404 Sensory Neuroscience
- 6405 Neuroanatomy
- 6406 Geometric Optics
- 6455 Visual Information Processing
- 6458 Noninvasive Assessment of the Visual System
- 6459 Introduction to Computer Programming for Vision Research
- 6470 Individual Studies in Vision Science
- 6490 Graduate Research in Vision Science
- 6497 Interdisciplinary Geriatric Care
- 6499 Current Topics in Optometry and Vision Science
Class of 2011†

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours¹</th>
<th>Clinic Hours¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8010 Anatomy, Physiology and Disease Processes I</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8020 Geometric Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8030 Introduction to Optometry</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8040 Neuroanatomy</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8060 Biochemistry</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8090 Case Based Discovery for the Developing Clinician</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8350 Epidemiology</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8090 Case Based Discovery for the Developing Clinician</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8110 Anatomy, Physiology and Disease Processes II</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8120 Ocular Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8140 Physical Optics and Photometry</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8160 Anatomy and Physiology of the Eye</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8180 Clinical Optometry I</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Second Year</td>
<td>Credit Hours</td>
<td>Lecture Hours</td>
<td>Lab Hours¹</td>
<td>Clinic Hours¹</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8220 Ophthalmic Optics</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8230 Interpersonal Communications</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8240 Ocular Motility</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8250 Monocular Sensory Processes</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8260 Foundations of Ocular and Systemic Disease and Management I</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8280 Clinical Optometry II</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8320 Ophthalmic Dispensing</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8340 Binocular Vision and Space Perception</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8370 Foundations of Ocular and Systemic Disease and Management II</td>
<td>7</td>
<td>6</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8380 Clinical Optometry III</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>8560 Public Health</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Third Year</td>
<td>Credit Hours</td>
<td>Lecture Hours</td>
<td>Lab Hours¹</td>
<td>Clinic Hours¹</td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8500 General Clinic I</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>8520 Contact Lenses I</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8540 Binocular Vision Anomalies</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8550 Low Vision</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8570 Advanced Topics In Ocular and Systemic Disease Management</td>
<td>6</td>
<td>5</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

† Due to advances in the optometric profession, sequencing of courses may change. The courses listed above are subject to change through normal academic procedures. This addendum lists curriculum changes that may affect your program sequencing.

‡ Every two (2) lab hours and every two (2) clinic hours is equivalent to one (1) credit hour.

Third Year  | Credit Hours | Lecture Hours | Lab Hours¹ | Clinic Hours¹ |
| Spring Semester |   |            |          |              |
| 8600 General Clinic II | 6 | - | - | 12 |
| 8610 Environmental Vision | 2 | 2 | - | - |
| 8620 Contact Lenses II | 3 | 3 | - | - |
| 8630 Practice Management III | 3 | 3 | - | - |
| 8640 Pediatric Optometry | 3 | 3 | - | - |
| 8650 Geriatric Optometry | 2 | 2 | - | - |
| 8660 Contact Lens Specialty Clinic | 1 | - | - | 2 |
| 8670 Ocular Assessment | 1 | 1 | - | - |
| 8680 Ophthalmic Lasers | 1 | 1 | - | - |
| 8690 Pediatric /Binocular Vision Specialty Clinic I | 1 | - | - | 2 |

Fourth Year  | Credit Hours | Lecture Hours | Lab Hours¹ | Clinic Hours¹ |
| Category 1 UM-St. Louis |   |            |          |              |
| 8700 UM-St. Louis Pediatric/ Binocular Vision Patient Care | 3 | - | - | 6 |
| 8710 UM-St. Louis Contact Lens Patient Care | 3 | - | - | 6 |
| 8720 UM-St. Louis Eye Health Management Patient Care | 1 | - | - | 2 |

Fourth Year  | Credit Hours | Lecture Hours | Lab Hours¹ | Clinic Hours¹ |
| Category 2 Institutional |   |            |          |              |
| 8780 External Rotation in Institutional Patient Care | 7 | - | - | 14 |

Fourth Year  | Credit Hours | Lecture Hours | Lab Hours¹ | Clinic Hours¹ |
| Category 3 Ocular Disease |   |            |          |              |
| 8790 External Rotation in Ocular Disease Patient Care | 7 | - | - | 14 |

Fourth Year  | Credit Hours | Lecture Hours | Lab Hours¹ | Clinic Hours¹ |
| Category 4 Intern |   |            |          |              |
| 8730 Optometric Center Patient Care | 7 | - | - | 14 |
| 8750 East St. Louis Patient Care | 7 | - | - | 14 |
| 8760 Harvester Eye Center Patient Care | 7 | - | - | 14 |
| 8770 Community Service in Rotation in Patient Care | 7 | - | - | 14 |

Fourth Year  | Credit Hours | Lecture Hours | Lab Hours¹ | Clinic Hours¹ |
<p>| Category 5 Specialty |   |            |          |              |
| 8800 External Rotation in Pediatric/Binocular Vision Patient Care | 7 | - | - | 14 |
| 8810 External Rotation in Contact Lens Patient Care | 7 | - | - | 14 |
| 8811 External Rotation in Ophthalmic Surgical Care | 7 | - | - | 14 |
| 8812 External Rotation in Geriatric Patient Care | 7 | - | - | 14 |
| 8813 External Rotation in Ophthalmic Sports Vision | 7 | - | - | 14 |
| 8814 External Rotation in Primary Care | 7 | - | - | 14 |
| 8815 External Rotation in Pathology and Treatment | 7 | - | - | 14 |
| 8816 External Rotation in Ophthalmic Laser Treatment | 7 | - | - | 14 |
| 8817 External Rotation in Rehabilitative Patient Care | 7 | - | - | 14 |
| 8820 External Rotation in Low Vision Patient Care | 7 | - | - | 14 |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Clinic Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8830</td>
<td>External Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8840</td>
<td>External Supplementary Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>8850</td>
<td>Supplementary Rotation in General Patient Care</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

### Elective Courses in the College of Optometry

- 8400 Directed Readings
- 8410 Directed Research
- 8420 Ocular Photography
- 8440 Clinical Applications of Current Topics in Visual Science
- 8470 Case Studies in Ocular Disease

### Graduate Vision Science Courses Approved for Elective Credit*

- 6400 Sensory Processes and Perception
- 6401 Visual Optics
- 6402 Ocular Anatomy and Physiology
- 6403 Psychophysical Methods and Experimental Design
- 6404 Sensory Neuroscience
- 6405 Neuroanatomy
- 6406 Geometric Optics
- 6455 Visual Information Processing
- 6458 Noninvasive Assessment of the Visual System
- 6459 Introduction to Computer Programming for Vision Research
- 6470 Individual Studies in Vision Science
- 6490 Graduate Research in Vision Science
- 6497 Interdisciplinary Geriatric Care
- 6499 Current Topics in Optometry and Vision Science