

Western University of Health Sciences

College of Optometry

**Doctor of Optometry (OD)
2015/2016 Catalog**

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College of Optometry

Accreditation

The Doctor of Optometry program at Western University of Health Sciences is fully accredited by The Accreditation Council on Optometric Education (ACOE). The ACOE (243 North Lindbergh Avenue, St. Louis, Missouri: telephone number 800-365-2219) is the accrediting body for professional degree programs offered by all optometric institutions in the United States.

General Information

Vision

Our vision is to be a progressive leader in optometric education and to improve the way health care is delivered world-wide.

Mission

The mission of the Western University of Health Sciences College of Optometry is to graduate caring, comprehensive health care professionals who will serve the needs of a diverse global society. The College emphasizes rehabilitation of the visual system, neuro-optometry, and interprofessional education. We advance the profession of optometry through innovation in health care education, research and patient care.

Core Values

We value a rich, humanistic tradition and are committed to professional collaboration, community involvement, accountability, integrity, and respect.

The OD Degree

The Doctor of Optometry degree (OD) is awarded in recognition of the highest level of professional education in optometry in the United States. To earn the OD degree, students must successfully complete four years of professional study subsequent to completion of their undergraduate, pre-professional prerequisites at an accredited college or university. Students who successfully complete this program are eligible to take state optometric licensing examinations. Most states have replaced the written examination with the National Board of Examiners in Optometry (NBEO) examinations which the students take during their academic career. Information on the NBEO licensing examination is available at <http://www.optometry.org>. After passing this examination, graduates are licensed to perform all the duties and responsibilities of a practicing optometrist.

Goals and Objectives

The College goals include teaching and learning, research and scholarly activity, and community and public service.

1. Matriculates will complete the educational and clinical programs successfully.
2. Graduates will interact with patients and other health care professionals in a competent, caring, and humanistic way.
3. Graduates will be prepared for diverse cultures, experiences, and practice settings.
4. The curriculum will emphasize the distinctive elements of the program.

5. The expertise of the faculty will be aligned with the program emphases as part of a comprehensive educational program
6. Research conducted will align with the program emphases as part of a comprehensive educational program.
7. High quality patient care will be provided in the program emphases as part of a comprehensive educational program.
8. The College will develop, implement, and evaluate improved aspects of health care education, research, and patient care and disseminate best practices and innovations.
9. Interprofessional, collaborative, and community-based projects in health care education, research, and patient care will be conducted.

Student Learning Outcomes

A graduating Doctor of Optometry from Western University of Health Sciences' College of Optometry must demonstrate ethical and professional standards appropriate to a health care professional, as well as demonstrating the biomedical knowledge required to enhance and extend the quality of life in our communities by enhancing visual function.

The graduate shall be Professional & Ethical: To serve the public and the profession well, new graduates must embrace and demonstrate the highest standards of ethical and professional care appropriate to being recognized as a health care provider.

The graduate shall be Professional & Ethical: The new graduate must also recognize that the completion of the Doctor of Optometry degree program is only the first step in a life-long commitment to self-directed learning and continual professional improvement.

The graduate will have demonstrated the following Personal Attribute: problem-solving and critical-thinking skills that integrate current knowledge, scientific advances and the human/social dimensions of patient care to assure the highest quality of care for each patient

The graduate will have demonstrated the following Personal Attribute: the ability to recognize personal limitations regarding optimal patient care and to work with the broader health care community in providing the best care possible.

The graduate will have demonstrated the following Professional Attribute: a respect for the dignity of every patient and a commitment to empathetic and confidential care

The graduate will have demonstrated the following Professional Attribute: a commitment to work as an integral member of the larger interprofessional health care team to improve patient care outcomes

The graduate will have demonstrated the following Professional Attribute: a commitment to be actively involved in organized optometry and the community.

The graduate will have demonstrated that he or she is knowledgeable of basic organ systems, with special emphasis on the ocular and visual system, and their inter-relationships to the body as a whole

The graduate will have demonstrated that he or she is knowledgeable of the cellular, molecular and genetic basis of the development, physiology, pathology and treatment of eye disease

The graduate will have demonstrated that he or she is knowledgeable of the structures and processes contributing to the development of refractive error and other optical and perceptual abnormalities of the visual system (This includes vision function with respect to deviation and enhancement such as, but not limited to, strabismus, amblyopia, oculomotor function, accommodation and visual perception.)

The graduate will have demonstrated that he or she is knowledgeable of the optics of the eye and ophthalmic lens systems (including spectacles, contact lenses and low vision devices) used to correct refractive, oculomotor and other vision disorders

The graduate will have demonstrated that he or she is knowledgeable of the various processes and causes that lead to dysfunction and disease, and the effect that these processes can have on the body and its major organ systems, with special emphasis on the ocular and visual systems

The graduate will have demonstrated that he or she is knowledgeable of mechanisms of action of the various classes of pharmaceutical agents, their interactions and their safe and effective use for the treatment of diseases and conditions affecting the eye and visual system

The graduate will have demonstrated that he or she is knowledgeable of vision therapy and other rehabilitative methods used for the management of common visual disorders and special patient populations

The graduate will have demonstrated that he or she is knowledgeable of the psychosocial dynamics of the doctor/patient relationship and understanding of the social, psychological and economic forces affecting diverse patient populations

The graduate will have demonstrated that he or she is knowledgeable of community health care resources and delivery systems to improve care

The graduate will have demonstrated that he or she is knowledgeable of practice management structures and strategies as they pertain to the various practice settings.

The graduate will have demonstrated that he or she is knowledgeable of an understanding of nutritional influences on ocular physiology and systemic health and disease

Capable: the graduate will have demonstrated all the skills required to the diagnosis, triage, management and/or treatment of common visual conditions, including or resulting from refractive anomalies, abnormalities of accommodation, monocular or binocular vision skills, oculomotor and sensory/perceptual dysfunctions, ocular disease and trauma, prior ocular surgery and/or laser intervention, systemic disease, and environmental or occupational conditions.

Capable: the graduate will have demonstrated all the skills required to order and interpret frequently needed laboratory and diagnostic procedures

Capable: the graduate will have demonstrated all the skills required to understand, evaluate and apply the use of contemporary imaging technologies in the provision of eye and vision care

Capable: the graduate will have demonstrated all the skills required to recognize and initiate the coordination of patient care requiring advanced medical, systemic, inter-professional or specialty care

Capable: the graduate will have demonstrated all the skills required to recognize life-threatening conditions and to initiate immediate intervention

Capable: the graduate will have demonstrated all the skills required to communicate both orally and in writing, as appropriate for maximizing successful patient care outcomes

Capable: the graduate will have demonstrated all the skills required to access evidence-based knowledge (including through the use of information technology) and manage information, and to apply that information in making decisions about patient care and health care delivery

Capable: the graduate will have demonstrated all the skills required to embrace the cultural diversity and individual differences that characterize patients, populations and the health care team

Capable: the graduate will have demonstrated all the skills required to work in cooperation with those who receive care, those who provide care, and others who contribute to or support the delivery of prevention and health services.

Admissions Policies and Procedures

Non-Discrimination Policy

In accordance with all applicable federal, state and local laws, Western University of Health Sciences (WesternU) is committed to ensuring a campus community free from unlawful discrimination. Accordingly, Western prohibits unlawful discrimination on the basis of race, color, national or ethnic origin, religion or religious creed, sex or gender (including gender identity or expression), marital status, sexual orientation, disability, age, genetic information, military or veteran status, or any other characteristic protected under applicable law, in the administration of its programs or activities. WesternU also prohibits unlawful harassment, including Sexual Harassment. Lastly, WesternU is committed to providing equal access to and equal opportunities to all members of its campus community in accordance with all applicable laws.

This non-discrimination policy applies to applicants, students and alumni. Additional nondiscrimination information can be found in the Nondiscrimination, Anti-Harassment and Anti-Retaliation Policy, located in the University Catalog.

Application Requirements

The application requirements shown in this catalog apply to applicants who are seeking entry for the 2016/2017 academic year. Current admission and application requirements for the Doctor of Optometry (OD) program, including prerequisite coursework requirements, can be located on the [Prospective Student website](#). An application to the College of Optometry includes the following items:

1. Primary Application
 - a. Submit primary application online through OptomCAS (Optometry Centralized Application Service). Applicants must pay a fee of \$160 to apply to one school or college of optometry. An additional \$60 fee will be charged for each additional school or college.
2. Supplemental Application
 - a. All supplemental applications must be submitted electronically on or before May 1st of the year of entry.
3. Supplemental Application Fee
 - a. There is a non-refundable \$65.00 application fee payable at the time of submission of the online supplemental application.
4. Prerequisite Course Worksheet
 - a. Applicants must list all prerequisite courses they have taken or plan to take. Prerequisite courses may be in progress during the academic year prior to matriculation. Final transcripts and/or final grades for all course work in progress must be received prior to orientation week.

6. Letters of Recommendation

- a. Letters of Recommendation should be submitted through OptomCAS. We require three (3) recommendation letters. It is suggested that one letter be from an optometrist and one be from a faculty member or pre-health advisor who is familiar with the applicant's academic work.

7. Official Optometry Admission Test (OAT) Score Report

- a. The OAT is required and should be taken as soon as possible with the results released to the Western University of Health Sciences' College of Optometry (#10).

8. International Student Application (ISA)

- a. International applicants, applicants who are not U.S. citizens and who are living in the U.S., and applicants who have applied for permanent residency but have not been approved at the time of application must answer all questions in the International Information section of the supplemental application.

9. Re-Applicants

- a. Re-applicants will need to submit a new set of official transcripts directly to OptomCAS as well as complete a new secondary application to WesternU. If the applicant submitted the three required letters of recommendation in their previous application, they will need to submit one new letter of recommendation. The additional letter should provide insight into the activities they have participated in since their last application submission and should be submitted through OptomCAS. If at least three letters of recommendation were not submitted during the previous application cycle, re-applicants will need to provide additional letters to meet our three letter requirement. At least one letter should provide insight into the activities the applicant has participated in since their last application submission. New letters should be submitted through OptomCAS. If the applicant has re-taken their OAT since their last application, they should request that a new official score report be released to WesternU.

Academic Requirements

Academic requirements for admission include:

1. Completion of prerequisite courses as outlined below
2. Minimum 90 semester or 135 quarter units of undergraduate coursework
3. Although not required, having earned a BS or BA will likely strengthen your application
4. Optometry Admissions Test (OAT) scores
5. Letters of Recommendation
6. Proof of legal US residency, if required

7. Test of English as a Foreign Language (TOEFL) results, if required
8. Access to a portable personal computer meeting the minimum requirements located at: <http://www.westernu.edu/computing/computing-students/>

Prerequisite Courses

The following courses must be completed at an accredited institution, in the United States or Canada, with a grade of “C” or better, prior to enrollment and are the minimum requirements for all applicants:

1. General Biology or Zoology with lab – 8 semester or 12 quarter units
2. General (Inorganic) Chemistry with lab – 8 semester or 12 quarter units
3. General Physics with lab – 8 semester or 12 quarter units
4. English – 6 semester or 8 quarter units
5. Organic Chemistry with lab – 3 semester or 4 quarter units
6. General Microbiology or Bacteriology with lab – 3 semester or 4 quarter units
7. Calculus –3 semester or 4 quarter units
8. Biochemistry –3 semester or 4 quarter units
9. Psychology –3 semester or 4 quarter units
10. Statistics – 3 semester or 4 quarter units

Recommended Courses

The following courses are not required, but are highly recommended.

1. Anatomy – 3 semester or 4 quarter units
2. Physiology – 3 semester or 4 quarter units

Notes Regarding Prerequisite Coursework

1. Introductory level courses in the sciences are not accepted
2. All prerequisite courses must be completed by the spring term of the matriculating year. No summer courses prior to matriculation will be accepted.
3. Pass/No Pass grades are not accepted for prerequisite coursework
4. One course cannot be used to satisfy more than one prerequisite
5. Advanced Placement courses will be accepted for English or Calculus courses only. AP courses will be accepted only if the undergraduate college has accepted the credit and the student has achieved a score of 4 or 5 on the College Board Advanced Placement Test.

Applicants with Foreign Coursework

Applicants who wish to use coursework completed outside the United States must submit their transcripts for evaluation to a [Western University of Health Sciences Approved Service](#) at the candidate's expense. A course-by-course evaluation is required and all coursework must be designated as undergraduate, graduate, or professional. WesternU only honors evaluations from one of the above services. The official evaluation must be submitted to OptomCAS.

International Students

International students and any other applicants who are not U.S. citizens and who are living in the U.S. should be prepared to provide proof of legal U.S. residency at the time of interview. Proof of legal U.S. residency is required prior to any offer of acceptance. For more detailed information, please visit our [web page](#). It is the responsibility of the applicant/matriculant to assure that they are fully and legally qualified to attend an educational program in the United States for the duration of the program.

Student Selection Process

The WesternU Admissions Office assists the College in preparation, distribution, and handling of all admissions-related materials, as well as in application processing. Applications for admission will be accepted each year from July 1st to May 1st for classes beginning in August of the next academic year. The College of Optometry will begin scheduling interviews as academically qualified applications are received.

After the applicants' file is complete, the College of Optometry Admissions Committee will review it to determine whether the minimum academic qualifications have been met, and whether the candidate will be granted an interview. If the candidate is deemed promising, he or she will be invited to the campus at his or her expense. The candidate should plan to spend a full day on campus for orientation and the interview. Orientation will consist of information on the curriculum, financial aid, student services, a tour of the campus, and time to meet with current WesternU students.

The interview team conducting the on-campus interview will complete a standardized assessment form. The Admissions Committee will review the report from the interview and will also review the applicant file again to determine whether the candidate will be accepted. The options for a decision could include an offer of acceptance, placing a candidate on a wait list, or denial of admission. The applicant will be notified of the committee decision within three weeks of the interview.

The College of Optometry uses a rolling admissions process, which means that qualified candidates will be accepted on a first-applied basis throughout the open admissions period (July through May). Candidates who apply early have the best chance at acceptance.

All accepted applicants must complete a matriculation agreement form and send an acceptance deposit of \$500.00, which applies to the first-year tuition, to confirm their space in the class. If an applicant fails to register, the tuition deposit is forfeited.

Transfers from Other Schools

Eligibility

To be eligible for admission with advanced standing as a transfer student, applicants must be currently enrolled in an accredited United States (US) or Canadian Optometry school, and in good academic and

professional standing. First consideration will be given to applicants whose personal circumstances compel them to transfer.

Application Process

While Western University of Health Sciences' College of Optometry does not have a specific program designed for candidates seeking admission to the OD program with advanced standing, it is possible for optometry students currently enrolled in an accredited US or Canadian Optometry School to be considered for transfer contingent on space availability. To initiate the process, applicants need to submit a detailed letter describing the reason for the transfer request to the Office of Admissions no later than February 1st of the year that they wish to matriculate. After review of the submitted request and the projected space availability for the upcoming academic year, the Admissions and Selection Committee will forward application instructions to the applicant. The completed application should be submitted to the Office of Admissions along with the following:

1. The supplemental application fee (payable to the Western University of Health Sciences)
2. A letter from the Dean of the applicant's current optometry school, verifying that the student is currently enrolled and is in good academic and professional standing
3. Official OAT score report
4. Official transcripts from all institutions attended
5. National Board of Examiners in Optometry (NBEO) score reports (where applicable)
6. Current optometry school catalog

Preliminary Review

Once the required documents have been submitted, the College of Optometry's Admissions and Selection Committee will review the applicant's completed application. Candidates being considered for transfer will be interviewed by the Committee.

Review by Course Directors

Based on the outcome of the interview, and at the request of the Admissions and Selection Committee, candidates who are recommended for possible transfer will need to provide copies of all course syllabi for courses completed and in progress at their current optometry school. College of Optometry Course Directors (or their designees) will review the course syllabi and, if necessary, communicate directly with candidates when further clarification is needed. Course Directors /designees will provide the Office of Academic Affairs with recommendations regarding the candidate's placement within the curriculum.

Transfer Credit

Transfer credit for previous coursework completed at a college or school of optometry will be reviewed and approved on a case-by-case basis.

Admissions and Placement Decisions

The Admissions and Selection Committee makes the final decision regarding admission. The Student Performance Committee develops specific recommendations regarding placement or modification to the student's curriculum or course requirements to accommodate individual needs. The Office of Admissions and the Office of Academic Affairs coordinate final placement arrangements. The

Admissions and Selection Committee will make a recommendation to the Dean who will make the final decision no later than April 1st. The Dean notifies applicants regarding admission decisions and, if indicated, placement decisions. Space must be available within the projected class in order for an offer of admission to be extended.

Registration

All WesternU students are required to register by the registration deadlines specified by the University Registrar. Registration dates are posted at: <http://www.westernu.edu/registrar/registrar-online-information/>. Failure to register by the deadline may be grounds for administrative withdrawal. All students registering after the posted deadline will be assessed a \$30.00 per business day late fee.

Full tuition and fees and all prior debts must be paid in full on or by posted deadlines each academic year. Matriculation is subject to the satisfactory completion of all academic requirements and payment of all outstanding debts to the University. The receipt of a final transcript(s) from all colleges/universities attended and a physical examination with documentation of required immunizations (if applicable) prior to registration are additional requirements for incoming students.

Registration Late Fee Appeals

If you are assessed late fees for a registration period, you may submit an appeal to the Registrar. For additional information on the appeal process, please see 'Registration Late Fee Appeals' in the University Catalog, General Academic Policies and Procedures section.

Student Health Insurance Requirement

All full-time students at Western University of Health Sciences are required to have active health insurance while enrolled. All students are automatically assessed half of the entire year's insurance premium until they submit proof of coverage that meets the University's requirements; however, students are not automatically enrolled in the plan until the deadline to submit proof of coverage has passed for your program/year. For additional information on student health insurance requirements and/or waiving out of the student health insurance plan, please see 'Student Health Insurance Requirement' in the University Catalog, General Academic Policies and Procedures section.

New Student Orientation/Welcome Week

Attendance at all Welcome Week activities is mandatory for all incoming first-year students. Failure to attend any part of Orientation/Welcome Week without prior approval from the Office of Student Affairs may result in the rescindment of the offer of acceptance.

Student Initiated Changes in Enrollment Status

Leave of Absence

A student may request a Leave of Absence (LOA) with the occurrence of a medical emergency or illness, personal issues, financial hardship, or military service. Students must be in good academic standing to be eligible for a Leave of Absence. For additional information on requesting a Leave of Absence, please see 'Student Initiated Changes in Enrollment Status' in the University Catalog, General Academic Policies and Procedures section.

Withdrawal from University/Academic Program

Matriculation at the University is a privilege granted in consideration of specified levels of performance and of maintaining the established standards of scholarship and personal and professional conduct. The University reserves the right to require withdrawal at any time it deems necessary to safeguard its standards of scholarship, conduct and orderly operation. The student concedes this right by act of matriculation. For additional information on Withdrawing from the OD program, please see 'Student Initiated Changes in Enrollment Status' in the University Catalog, General Academic Policies and Procedures section.

Full-Time/Part-Time Status

All Doctor of Optometry (OD) students enrolled in at least one course are considered full-time students.

Time Limits

The Doctor of Optometry (OD) program is designed to be completed in four (4) years of full-time study. The requirements for the degree must be fulfilled within six (6) years from the date of matriculation to the program. Students who are unable to complete the program within the maximum time allotted may be subject to Administrative Withdrawal. Extensions of this time limit may be granted through petition to the Dean of the College of Optometry.

Tuition and Fees

By action of the Board of Trustees, OD tuition and fees for the 2015-2016 academic year (subject to change) are as follows:

\$36,140.00	Annual Tuition
\$40.00	Student Body Fee, Years 1-3
\$20.00	Student Body Fee, Year 4

Other Fees and Expenses

\$1,000.00	Recommended Text Books (Per Year, Estimate)
\$2,500.00	Required Equipment (Year 1, Estimate)
\$4,000.00	Required Equipment (Year 2, Estimate)
\$1,500.00	Required Equipment (Years 3-4, Estimate)
\$550.00	Board Review Course Materials (Year 3, Estimate)
\$2,500.00	Personal Computer (Estimate)
\$65.00	Classroom Responder
\$75.00	Educational Portfolio Software
\$40.00	AOSA Annual Dues (Required)
\$60.00	Criminal Background Investigation (Estimate)
\$30.00	Registration Late Fee (Per Business Day)
\$350.00	Graduation Fee
\$470.00	Annual Parking Permit (Auto)
\$25.00	Parking Permit Replacement Fee
\$40.00	Locker Key Replacement Charge
\$10.00	Official Transcript (Each)
\$21.00	Rush Transcript, First Class Mail (Each)
\$25.00	Rush Transcript, Federal Express (Each)
\$10.00	Student ID Replacement Fee
TBD	Breakage Fee (Replacement Cost)
TBD	Externship Documentation (As Needed)

Additional OD Program Education Requirements

Classroom Responders

The College of Optometry requires that each student have a classroom responder, approved by the College, which is to be purchased from the University Bookstore. Classroom responders are electronic devices that will be used to enhance interactive learning in classrooms. Individual responders must be registered to only one (1) student. The responders may be used to administer and score assessments; therefore, students are required to bring their responders to each class.

On-Line Educational Portfolio

The College of Optometry requires each student to participate in the development and management of an on-line educational portfolio. The portfolio will be used to keep track of the student's educational

experiences and his/her progress toward the achievement of the educational standards as set forth by the College.

Personal Computers (PC)

Students are required to have a personal computer and will begin using it the first day of class. PCs must meet pre-determined technical specifications that are updated annually. Specifications can be accessed by visiting the [WesternU website](#).

The PCs will be used for e-mail communication with classmates and faculty, for accessing computer and server-based course information and instructional software, for searching online bibliographic databases and creating electronic bibliographies, and for participating in exercises in clinical education and pre-clinical laboratory assignments. PCs are required to run Electronic Health Records software and must meet exact specifications to support these needs. In addition, it is recommended that each student have access to a printer.

Computers will be needed by students on campus as well as at their pre-clinical laboratories, clinical assignments, and community-based screening programs; therefore, portable computers are required instead of desktop models. WesternU does not support Apple computers. Vendors of software used by students at the College of Optometry have stated that their products cannot be guaranteed to work on Apple products.

National Board Fees

All states require passage of the National Board of Examiners in Optometry (NBEO) examinations for licensure. Students will be eligible to take NBEO exams in their third and fourth years of study. Fees are subject to change by NBEO and are updated regularly. These fees can be found online at <http://www.optometry.org/fees.cfm>. Fees and application requirements are the responsibility of the student.

Clinical Rotations Expenses

During the third and fourth years of the curriculum, students may be required to rotate through off-campus clinical experiences away from the Pomona area, which is a self-imposed expense. In addition, students may be required to return to campus several times during the clinical years for various educational experiences, conferences, etc. Any travel, food, housing, or other expenses incurred by participating in these activities are the responsibility of the student.

Financial Assistance

All Optometry students are eligible to apply for need-based financial aid. For more information, please call the Financial Aid Office at 800-346-1610 or visit the [Financial Aid](#) website.

General Academic Policies and Procedures

Academic Support

The faculty and administration of the College of Optometry are committed to providing support for academic success in the program. Students are encouraged to take an active role in monitoring their own academic progress to ensure adequate performance in all assignments. Student academic performance is monitored on an ongoing basis by faculty members, the Assistant Dean of Student Affairs, and the Associate Dean of Academic Affairs. The College of Optometry's Assistant Dean of Student Affairs serves as the primary contact for students seeking support.

Attendance and Absences

Attendance at lectures may or may not be mandatory, at the discretion of the Instructor of Record and as specified in the course syllabus. Attendance is required at all scheduled instructional periods, including orientations, group meetings with tutors, scheduled educational laboratories and experiences, and all clinical assignments. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during these periods.

Students are required to be present for all scheduled examinations and cannot begin an examination more than 15 minutes after the scheduled starting time. There are no planned unexcused absences in advance for scheduled course examinations. In the case of emergency circumstances (e.g., illness or accident) students may request an excused absence allowing them to take a make-up examination. Requests for excused absences (with appropriate documentation) must be made to the Associate Dean of Academic Affairs, who in turn will provide the decision for excused absences to the course instructor.

Absence from an examination due to unforeseen circumstances, including illness, should be reported to the Associate Dean of Academic Affairs by telephone or email as soon as possible prior to or after the exam has been administered. A written explanation of the absence (including documentation on physician letterhead, in the case of illness) must be provided to the Associate Dean of Academic Affairs the next day the student is on campus.

If a student misses an examination, the Associate Dean of Academic Affairs will determine whether the absence is excused or unexcused. If the absence is excused, the student will be permitted to take a make-up examination, the nature and time of which will be determined at the discretion of the course instructor, and the student will receive full credit for the make-up examination.

If the absence is unexcused this is grounds for summary failure (a score of zero) for that examination. The course instructor may grant a score of zero or may offer the student the option of completing an alternate assignment or alternate test for partial credit at his or her discretion.

Examinations

Examination schedules will be provided at the beginning of every course and included in each course syllabus. In addition, unannounced examinations may occur during any portion of the curriculum at the discretion of the course instructor.

Issues/Dispute Resolution Procedure

When an issue or dispute arises between students, the issue/dispute resolution process starts with communication among the involved students. If a satisfactory resolution is not arrived at that level, the matter should then be addressed with the course leader. If the problem is not resolved at the course

leader level, the matter should be brought to the Assistant Dean for Academic Affairs, followed by the Dean and then the Provost/COO. If the matter has not been resolved at those levels, the final arbiter is the President.

When an incident arises involving a faculty member, the first step in the issue/dispute resolution process is discussion with the faculty member. If the matter is not satisfactorily resolved at that level, then the matter should be referred to the Dean, and Provost/COO, in that order. The final arbiter is the Board of Trustees.

When an incident arises involving a staff member, the dispute resolution process begins with the Dean. The Office of Human Relations is the final arbiter.

Failure to follow this sequence of steps will only serve to delay the appropriate resolution of the issue or dispute as the matter will only be referred back to the correct level in this chain of responsibility.

Standards of Academic and Professional Conduct

Complete confidence in the honor and integrity of the health professions student and health care professional is essential. Such confidence depends entirely on the exemplary behavior of the individual health care provider in his or her relations with patients, faculty and colleagues. Strict honesty as a personal way of life should be nurtured during the period of education for professional service.

The student shall conduct all aspects of his or her life with honor and integrity. This includes accountability to oneself and to relationships with fellow students, future colleagues, faculty, and patients who come under the student's care or contribute to his or her training and growth, and members of the general public. This applies to personal conduct that reflects on the student's honesty and integrity in both academic and non-academic settings, whether or not involving a University sponsored activity.

Upon accepting admission to the University, each student agrees to abide by basic standards of honesty and academic integrity. Students should only matriculate here if they agree with these basic standards. They include, but are not limited to, the following:

1. A student never represents the work of others as his/her own.
2. A student should acknowledge the other members of the group when work is carried out jointly.
3. A student never gives or receives assistance during an exam.
4. A student is always accountable to clinical faculty while on clinical training.

Acts of dishonesty, invasion of privacy, theft, acts of violence, sexual harassment, disrespect for personal and University property are examples of unacceptable behavior.

The administration, faculty and staff are here to serve the students. Personal gifts are discouraged, and monetary gifts are prohibited.

A violation of these standards is an abuse of the trust placed in every student and could lead to suspension or dismissal. For additional information on the University's Standards of Academic and Professional Conduct, please see the University Catalog.

Standards of Academic Progress

Students must maintain a semester and cumulative grade point average of C (2.00) on a yearly basis during all four years of the curriculum to be considered making satisfactory academic and professional progress. All grades of Incomplete (I) must be successfully completed, and “U,” “NP,” or “NCR” grades in any course or clinical assignment must be satisfactorily remediated prior to promotion or graduation. If a student leaves a clinical assignment before it is finished without the permission of the Associate Dean of Academic Affairs, or is asked to leave an assignment by the Clinical Site Coordinator, a grade of “NP” will be assigned.

A student who is neither eligible for dismissal nor on academic probation is considered to be in satisfactory academic standing. A student who is eligible for dismissal or on academic probation is considered not to be in satisfactory academic standing.

Student Performance Committee

The Student Performance Committee is responsible for maintaining the academic and conduct standards within the College of Optometry.

For purposes of clarification, “performance” is defined as those activities of behavioral-conduct or academic nature that negatively affects or impairs the continued ability of a student to maintain good academic standing within the College of Optometry.

The Student Performance Committee also has the responsibility of recommending to the Faculty as a whole the awarding of the degree of Doctor of Optometry to all students who satisfactorily complete all requirements for graduation as stated in the University Catalog.

All recommendations of the Student Performance Committee shall be in writing to the Dean or Associate Dean of Academic Affairs, who will make the information available to the affected student. The Committee Chair will provide recommendations on remediation, probation, or suspension to the Associate Dean of Academic Affairs. The Committee Chair will provide recommendations on dismissal to the Dean. Guidelines for committee actions are included in the following section.

Review of Student Performance

Student performance is reviewed on an ongoing basis by the Associate Dean of Academic Affairs. Determination of eligibility for dismissal or for probation will be assessed at the conclusion of each course as well as at the end of each semester. Since courses may conclude prior to the end of the semester, a student may be placed on probation or become eligible for dismissal prior to the end of an academic term.

The Student Performance Committee makes recommendations to the Dean or Associate Dean of Academic Affairs regarding actions to be taken in cases of poor student performance. A range of options may be recommended, including, but not limited to, remediation of an individual course or activity, a modified program or repetition of an entire year of the program, or dismissal from the program. The Dean or Associate Dean of Academic Affairs will make the final decision on this recommendation and inform the student of that decision. The student has a right to appeal such decisions to the Provost (excepting decisions that only place a student on academic probation).

Promotion

Promotion is defined as academic and professional progression from one academic year to the next. The Student Performance Committee will recommend students to the faculty for promotion. A student will not be recommended for progression from one academic year to the next with a semester GPA of less than 2.00 for two consecutive semesters or a cumulative GPA of less than 2.00. When considering a student for promotion, the faculty will consider ethical, professional, and personal conduct as well as academic performance (see University's General Academic Policies and Procedures section of the catalog).

Graduation

A student will be recommended for the Doctor of Optometry degree provided he/she:

1. Is not on probation or suspension and has completed all prescribed academic and clinical requirements with a cumulative grade point average of a 2.00 or above, and has no outstanding grade of "I", "NCR", "NP", "R", or "U".
2. Has demonstrated no serious deficiencies in ethical, professional, or personal conduct, as defined in University Catalog, "General Academic Policies and Procedures" section, which would make it inappropriate to award the degree of Doctor of Optometry.
3. Has complied with all the legal and financial requirements of the University as stated in the University Catalog.
4. Has attended in person and participated in the Commencement ceremony at which time the Doctor of Optometry degree is conferred. Unless special permission has been granted by the Dean, each student must participate in their respective commencement ceremony. If the Dean grants special permission for excusal from commencement, the graduate may be required to present themselves to the Dean or their designee at another specified date to take their profession's oath before their diploma will be released. Requests for excusal will only be granted for extenuating circumstances, such as a prior military commitment.

Students may participate in commencement activities provided they will complete all requirements of the program by December 31st of that calendar year. No student will receive his or her degree until the student has completed all requirements for graduation. Degrees will be dated as appropriate to completion date.

Adverse Actions

Probation

Students may be placed on Probation for the following reasons (these are in addition to the reasons listed in the University Catalog, General Academic Policies and Procedures section).

1. Cumulative grade point average is below 2.00, provided two or more terms have been completed
2. Semester grade point average is below 2.00 in two consecutive semesters
3. Student earns a final course grade of U (Fail), NP (No Pass), or NCR (No Credit)

4. Student earns a first-time course grade of R (Remedial) in any of the following courses: Patient Care Services I through IV or VI through XIII. Note: A Student who earns a course grade of R (Remedial) in the course Patient Care Services V and who does not meet any of the other criteria for probation will NOT be placed on Academic Probation
5. Student earns three or more final course grades of “D” in one semester

Students will be placed on conduct probation if any of the following occur:

1. A pattern of unexcused absences from scheduled learning activities is demonstrated
2. When a student demonstrates deficient ethical, professional, or personal conduct

When the Associate Dean of Academic Affairs determines that a student is placed on probation according to the conditions listed above, he/she will call for a Probation Hearing, and so inform the affected student, the Assistant Dean of Student Affairs, and the Chair of the Student Performance Committee. Students placed on academic probation for the first time are recommended to meet with the Assistant Dean of Student Affairs.

Students on academic probation must bring their cumulative GPA to a 2.00 or greater average and satisfactorily remediate every failed course within two semesters of the imposition of academic probation in order to be removed from probation. If they do not meet these requirements, the student may be eligible for dismissal from the Doctor of Optometry program. Students on academic probation for any reason are not permitted to hold leadership positions in extra-curricular activities associated with the University and/or with professional associations and/or federal work study nor be excused from any academic or clinical activity to attend any professional meeting. A student on academic probation will be removed from probation when the student resolves the issue that caused him or her to be placed on probation.

A student who earns a final course grade of “R” (Remedial) for the first time in any Patient Care Services course I through IV or VI through XIII will be placed on academic probation. All consequences of being on academic probation will apply. The student will be allowed to progress in the program, including advancing to and earning credit for their ensuing Patient Care Services assignment, while their status and pathway to remediation are being reviewed by the Student Performance Committee and the Associate Dean of Academic Affairs or his designee. If the “R” grade is successfully remediated within the stipulated time limit, then the Remedial grade will be changed to “P” (Pass). If the “R” grade is NOT successfully remediated within the stipulated time limit, then the “R” grade will be changed to “NP” (No Pass) and the consequences described in the next paragraph will be implemented. A student who earns a final course grade of “NP”, “U”, or a second grade of “R” in any course within the Patient Care Services track will be placed on academic probation and will be immediately eligible for dismissal. All consequences of being eligible for dismissal will apply. While his or her status and pathway to remediation, if applicable, are being reviewed by the Student Performance Committee and the Dean of the College, the student will be allowed to progress in the didactic portion in their program, but will NOT be allowed to advance to their ensuing Patient Care Services assignment. All Patient Care Services hours missed due to the student’s inability to continue in Patient Care Services track will have to be made up; hour for hour, prior to the student’s advancing to the ensuing clinical course.

A student who earns a final course grade of “R” (Remedial) in Patient Care Services V will be allowed to progress in the program, including advancing to and earning credit for their ensuing Patient Care Services assignment while their status and pathway to remediation are being reviewed by the Student Performance Committee and the Associate Dean of Academic Affairs or his designee. If the “R” grade is successfully remediated within the stipulated time limit, then the Remedial grade will be changed to “P” (Pass). If the “R” grade is NOT successfully remediated in within the proscribed time limit, then the “R” grade will be changed to “NP” (No Pass).

Financial Aid Warning Policy (Title IV and Title VII)

If a student is not making Satisfactory Academic Progress (SAP) they may be placed on “Financial Aid Warning” status for the next payment period and continue to receive financial aid for that period. Financial Aid is any financial assistance offered to the student for paying for their education, such as loans, scholarships, Federal Work-Study, grants and stipends (judged on the criteria of the stipend). Students who fail to make SAP by the end of the payment period lose Financial Aid eligibility.

It is the policy of the Financial Aid Office (FAO) that once a student has been placed on academic probation for not meeting SAP standards as defined by the college, the FAO will automatically place the student in a Financial Aid Warning status. During the next academic term, if the student does not meet SAP standards and the college places the student on academic suspension, the student will no longer be eligible for financial aid. If the student appeals the academic suspension and the appeal is approved, financial aid will be reinstated. If the student is directed to audit courses, those courses will **not** be covered by financial aid.

Tutorial Assistance Program

A Tutorial Assistance Program (TAP) has been established to assist students experiencing academic difficulty. Students will be recommended for this program by a faculty advisor or professor. Students may self-identify to TAP to receive assistance. The tutors will be chosen on the recommendation of the faculty in each discipline. Group tutoring is the methodology most used by the TAP department. For assistance, contact the Learning Enhancement and Academic Development Office (LEAD).

Remediation

The educational objectives that underlie remedial teaching and evaluation are the same as the educational objectives that underlie regular courses in the curriculum. Students who are placed on probation or who are eligible for dismissal may be given the opportunity to remediate their weaknesses when deemed appropriate. After consultation with the course instructor the Student Performance Committee may recommend one of the following means for remediation.

1. The taking, and passing, of a comprehensive examination
2. Completion of special projects or studies in the deficient area(s)
3. Repeating of the course or clinical assignment
4. Completion of remediation course
5. Repeating of the academic year

The Associate Dean of Academic Affairs will decide the means for remediation. The grade(s) achieved in the remediation will be the grade(s) recorded on the student’s transcript, except that the highest grade a student may earn by options 1 or 2 (above) is the lowest passing grade offered in the course. The

grade achieved by remediation will be re-recorded on the transcript next to the original grade. Grades earned during remediation of a course or clinical assignment will be reviewed critically by the Student Performance Committee.

A student who is required to repeat a course must be notified in writing by the Associate Dean of Academic Affairs at least fifteen (15) working days prior to the start date, or within fifteen (15) working days after the close of the academic year (June 30) in which the student is presently enrolled, whichever comes first. Notification must either be sent by Certified Mail or hand-delivered to the student and must be acknowledged with the signatures of the Associate Dean of Academic Affairs and the student.

If a student is directed to repeat a course, the grade for repeated course will be recorded on the official transcript. Only the most recent grade received for a repeated course will be included in the student's GPA calculation. Students will be charged full tuition for repeated coursework.

If a student is required to take a remediation course, the student will be charged and will be responsible for paying 100% of the tuition for the course. If special assessments, diagnostic procedures, or therapy are required as part of a remediation plan, or if such activities are recommended and the student elects to partake of them, then in either case the student is responsible for 100% of all associated costs.

If a student fails to achieve remediation within the designated time frame for any reason, then that student will automatically become eligible for dismissal and will be referred to the Student Performance Committee by the Associate Dean of Academic Affairs, as described above.

Modified Program

Under unusual circumstances, a student may be offered the opportunity to take a modified curriculum or program, such that the time to complete the program could be extended beyond four years, but not to exceed six years. A modified program may consist of a reduced course load, alternative course sequencing, the addition of OPTM 7101 and/or 8122, and/or other modifications in support of the college's learning outcomes. The particular sequence and timing of courses in the modified program is to be arrived at through consultation among the student, the Assistant Dean of Students, and the Dean or her designate. The student will have the right to accept or to reject the modified program as offered. A student who has failed to remediate a course in which he has earned a grade of "U" may be offered the opportunity to remediate the course by repeating it as part of a modified program. Students enrolled in either 7101 or 8122 are required to adhere to the above mentioned academic standards.

Academic Suspension

Students who are directed to discontinue enrollment and return to repeat course(s) or an entire year at a later date will be placed on academic suspension. Students on academic suspension are not registered as an active matriculate and should use this time to remediate for the deficiency for which the academic suspension was levied.

Dismissal from the Program

The Faculty of the College of Optometry may require dismissal of a student from the optometry curriculum for failure to meet standards of scholarship, attendance, or conduct. A student will become eligible for dismissal under at least one of the following conditions:

1. Cumulative grade point average at the end of the first professional year of less than 1.50

2. Cumulative grade point average below 2.00 after having been on probation in any previous semester (see conditions for Probation above)
3. Student earns more than one grade of “U”, “NP,” or “NCR” in an academic term
4. Student earns a grade of “NP” in any Patient Care Services course.
5. Student earns a second grade of “R” in any Patient Care Services course I through IV and/or VI through XIII
6. Student is placed on academic probation for the third time
7. Student fails to successfully remediate any required course or clinical assignment
8. Student fails to achieve remediation for any reason within the designated time frame
9. Student demonstrates a pattern of unexcused absences from scheduled learning activities
10. Student demonstrates deficient ethical, professional ,or personal conduct
11. Student earns two or more final course grades of “D” in combination with “U” and/or “R” and/or “NP” in one academic term.

When the Associate Dean of Academic Affairs determines that a student has become eligible for dismissal according to the conditions listed above, he/she will call for a Dismissal Hearing, and so inform the affected student, the Assistant Dean of Student Affairs, and the Chair of the Student Performance Committee in a timely manner. The Student Performance Committee will schedule a hearing with the student in a timely manner after being notified. The Student Performance Committee makes recommendations regarding dismissal directly to the Dean. The decision to dismiss the student will be rendered by the Dean of the College based on committee recommendations, adherence to procedures and processes, and any new information provided by the student. In the event that the student is dismissed by the College, he or she has the option to appeal the decision to the Provost of the University as specified in the University’s General Academic Policies and Procedures contained in the Overview section of this Catalog.

A student who earns a final course grade of “NP” or a second grade of “R” in Patient Care Services I through IV and/or VI through XIII will be placed on academic probation and will be immediately eligible for dismissal. All consequences of being eligible for dismissal will apply. While his or her status and pathway to remediation, if applicable, are being reviewed by the Student Performance Committee and the Dean of the College, the student will be allowed to progress in the didactic portion in their program, but will NOT be allowed to advance to their ensuing Patient Care Services assignment. All Patient Care Services hours missed due to the student’s inability to continue in Patient Care Services track will have to be made up; hour for hour, prior to the student’s advancing to the ensuing clinical course.

A student who becomes eligible for dismissal, but is not dismissed immediately, will be considered to be on academic probation and/or academic suspension. Each time a student meets one or more of the criteria for eligible for dismissal or for academic probation, then that time counts as a separate occurrence of being placed on academic probation, such that three or more such occurrences place the student in the academic status of eligible for dismissal, regardless of the number of times that student

has been placed on or removed from academic probation. For Example: A grade of “U”, “NP”, or “NCR” in a course AND a failure to remediate that same course in a timely manner are considered to be two distinct occurrences of being placed on academic probation. A student whose status is eligible for dismissal is also considered to be on academic probation and will only be removed from probation when all academic issues have been resolved. Once a student has achieved the status of eligible for dismissal, if that student subsequently meets one or more of the criteria for academic probation and/or for eligible for dismissal, then that student remains on academic probation and in the status of eligible for dismissal.

Once a student has achieved the status of eligible for dismissal, the student remains eligible for dismissal. Any subsequent event that meets one or more of the criteria for academic probation will result in another dismissal hearing. Once a student has achieved the status of Eligible for Dismissal and for the remainder of his or her enrollment at Western University of Health Sciences College of Optometry, he or she may not participate in Federal Work Study programs nor hold leadership positions in any extra-curricular activities associated with the University and/or with professional associations (i.e. student government or clubs) nor be excused from any academic or clinical activity to attend any professional meeting.

Readmission

Students dismissed from the program must reapply to be considered for readmission. All students readmitted after being dismissed will be subject to all curricular requirements in effect at the date of re-matriculation. Failure to achieve these requirements will result in permanent dismissal from the program. All readmitted students will be placed on academic probation for the remainder of the program and may be dismissed at any time due to unsatisfactory performance. Exceptions to these requirements may be granted by the Dean after consultation with the Associate Dean for Academic Affairs.

Appeal Process

Students may appeal decisions regarding suspension, student conduct, academic progression/promotion, and graduation according to the regulations listed in the General Academic Policies and Procedures section in the Overview section of the University Catalog.

Evaluation and Grading

The College of Optometry uses letter grades A through U and Credit/No Credit with clinical grading levels of Honors, Pass, Remedial, or No Pass. Honors/Pass/Remedial/No Pass courses will not be assigned letter grades. The student must satisfy the requirements of these courses, as determined by the faculty teaching the courses, to receive credit. Course grading scales will be published in each course syllabus. Letter grades assigned may vary from course to course, depending on the type of material and required competencies. Courses that are taken jointly within the COMP curriculum will have their own College of Optometry course number and course requirements and grading standards as determined by the College of Optometry faculty. The Patient Care Services course sequence will be graded on an Honors, Pass, Remedial, or Fail basis.

Grading Scale, Didactic Courses

<u>Grade</u>	<u>Equivalent</u>	<u>GPA Points</u>
A	Excellent	4.00
B	Good	3.00
C	Satisfactory	2.00
D	Unsatisfactory	1.00
U	Fail	0.00
CR	Credit	N/A
NCR	No Credit	N/A

Grading Scale, Clinical Courses

<u>Grade</u>	<u>Equivalent</u>	<u>GPA Points</u>
HO	Honors	N/A
P	Pass	N/A
R	Remedial	N/A
NP	No Pass/Fail	N/A

Administrative Grades

<u>Grade</u>	<u>Equivalent</u>	<u>GPA Points</u>
AU	Audit	N/A
I	Incomplete	N/A
W	Withdrawal	N/A
M	Missing	N/A
WPC	Waived for Prior Credit	N/A

Audit

An "AU" (Audit) is assigned to a student who pays tuition for the course and attends class activities but does not complete examinations and does not receive course credit. However, under certain circumstances, at the discretion of the College Dean, a student who is repeating or undergoing remediation may be required to complete course examinations and/or other required work products while auditing the course for no grade.

Missing Grades

A grade of 'M' for Missing will be input by the Office of the Registrar if a student's grade is not available by the deadline for grade submission. An 'M' grade is not included in the GPA calculation and will be replaced by the grade earned in the course once submitted by the course director/instructor. 'M' grades should not be used by the program in place of an Incomplete (I) grade.

Incomplete

A grade of Incomplete (I) indicates that a student has not been able to finish all required work for issuance of a letter grade. An "I" is not counted in the grade point calculations until a letter grade is issued to replace the "I".

Replacement of an "I" will be under the direction of the instructor-of-record with the approval of the Associate Dean of Academic Affairs. Grades of Incomplete must be replaced with a letter grade at a time designated by the instructor-of-record but no later than three weeks following the end of the semester. Incomplete grades that are not replaced with a letter grade within three weeks of the end of the following semester will automatically be changed to a grade of "U," "NP," or "NCR". Students earning an incomplete grade in a clinical assignment may have the completion deferred for a period of time greater than three weeks with approval from the instructor-of-record and the Associate Dean of Academic Affairs.

Withdrawal

A "W" (Withdrawal) is assigned to a student who initiates voluntary withdrawal prior to the administration of the final exam or the final day of a clinical course or rotation. Students may also be assigned a "W" by the instructor of record.

Grade Reports

Course grades are electronically entered by the Course Leader into BanWeb. Grades may be viewed and unofficial transcripts are available on the BanWeb student record system. The student must satisfy course requirements as defined by the course syllabus and clinical handbook to receive academic credit. Course syllabi inform students of the levels of academic accomplishment required for each grade.

A semester and cumulative grade point average are calculated and posted on each student's transcript. Courses graded on a Credit/No Credit or Honors/Pass/Remedial/No Pass basis do not contribute to the calculation of the grade point average. Class ranking is also available upon request from the Registrar's Office.

Grade Changes/Appeals

For all courses, no grade will be changed unless the course instructor-of-record certifies in writing to the Associate Dean of Academic Affairs and the Registrar that an error in computing or recording the grade occurred. For on-campus courses, students have a maximum of three weeks from the time examination results are returned to them to bring any errors or irregularities in grading to the attention of the instructor. All recorded grades remain on the official transcript unless a clerical error has occurred. A student has no more than four (4) weeks to appeal a course grade after the grade has been entered into the student's official transcript by the University Registrar. An appeal of a course grade should be directed to the Associate Dean of Academic Affairs, who will initiate an investigation.

Within the above-designated time, grade changes for clinical assignments will be considered only under the following circumstances:

1. When the Associate Dean of Academic Affairs receives a signed written statement from the clinical site coordinator specifying that a clerical error has been made regarding a grade, and that the purpose of the change is to correct the clerical error.
2. When the clinical site coordinator to whom the student was assigned submits a signed written request to have the grade changed. The request must include justification for making the change.

Credit Calculations

As of the 2014/2015 academic year, credit hours for the curriculum were allocated in accordance with the following ratios: 15 hours of assigned lecture will be equivalent to 1.00 credit hour; 30 hours of laboratory instruction and/or practice sessions will be equivalent to 1.00 credit hour. Credit hours for clinical patient care (Patient Care Services course sequence) will be assigned as 40 hours to 1.00 credit hour. Credit hours are rounded to the nearest 0.50.

Previous to the 2014/2015 academic year, credit hours were calculated as follows: Credit hours for the curriculum will be allocated in accordance with the following ratios: 12 hours of assigned lecture will be equivalent to 1.00 credit hours; 24 hours of laboratory instruction and/or practice sessions will be equivalent to 1.00 credit hour. Credit hours for clinical patient care (Patient Care Services course sequence) will be assigned as 16 hours to 1.00 credit hour. Credit hours are rounded to the nearest 0.50.

Curriculum Organization

The curriculum at the College of Optometry is a four-year, full-time academic and clinical program leading to granting the degree of Doctor of Optometry (OD). The over-arching themes of the curriculum include:

- Early entry into patient care
- Integration of basic and clinical sciences
- Interprofessional education in collaboration with other health disciplines
- Preparation for entry-level optometric care along with a special emphasis on optometric rehabilitation

Curriculum Tracks

The majority of courses in the curriculum are part of a curriculum track. Any course not listed below is not designated to a curriculum track.

Track Name	Basic Biomedical Sciences	
Subject/Course #	Course Title	Credit Hours
OPTM 5005	The Molecular and Cellular Basis of Medicine	6.00
OPTM 5032	Ocular Physiology	1.50
OPTM 5041	Anatomy for the Optometrist	5.00
OPTM 5101	Introduction to Disease, Immunity, and Therapeutics	4.00
OPTM 5102	Neuroscience	1.00
Track Name	Vision Science	
Subject/Course #	Course Title	Credit Hours
OPTM 5141	Vision Science I – Neural Basis of Vision	4.00
OPTM 6041	Vision Science II – Monocular Sensory Aspects of Vision	3.50
OPTM 6042	Vision Science III – Development of Vision	1.50
OPTM 6141	Vision Science V – Binocular Vision and Ocular Motility	3.00
Track Name	Primary Care Clinical Science	
Subject/Course #	Course Title	Credit Hours
OPTM 5020	Principles & Practice of Optometry I: Primary Care Exam Techniques	5.50
OPTM 5120	Principles & Practice of Optometry II: Primary Care Exam/Strategy	4.50
OPTM 5122	Introduction to Clinical Thinking	1.00
OPTM 6021	Principles & Practice of Optometry IV: Tissue Eval/Anterior Segment	5.50
OPTM 6111	Contact Lenses I: Theory and Practice	4.50
OPTM 6121	Principles & Practice of Optometry V: Special Procedures	4.00
OPTM 8011	Contact Lenses II: Theory and Practice	3.50
OPTM 8021	Principles & Practice of Optometry VI: Special Procedures	1.50
OPTM 8121	Patient Presentation in Primary Eye Care	1.50

Track Name	Rehabilitation Clinical Science	
Subject/Course #	Course Title	Credit Hours
OPTM 6172	Special Considerations in Pediatrics	1.00
OPTM 6182	Neuro-Optometric Rehab I: Non-strabismic Anomalies	5.50
OPTM 8013	Special Considerations in Geriatrics	1.00
OPTM 8081	Neuro-Optometric Rehab II: Strabismus and Amblyopia	2.50
OPTM 8082	Neuro-Optometric Rehab III: The Neurologically Challenged Patient	2.00
OPTM 8111	Vision Rehabilitation	4.00
Track Name	Ocular Health Science	
Subject/Course #	Course Title	Credit Hours
OPTM 5070	Clinical Medicine for the Optometrist	1.50
OPTM 5104	Neuro-function and Behavior	2.50
OPTM 5171	Ocular Disease I: Diagnosis & Treatment Anterior Segment Part 1	1.50
OPTM 5131/6031	Ocular Pharmacology: General Principles	2.00
OPTM 6071	Ocular Disease I: Diagnosis & Treatment of the Anterior Segment	2.50
OPTM 6171	Ocular Disease II: Diagnosis & Treatment of Glaucoma	2.50
OPTM 6173	Systemic Pharmacology	1.50
OPTM 6281	Ocular Disease III: Neurological Disease Diagnosis & Treatment	2.50
OPTM 8072	Ocular Disease IV: Diagnosis & Treatment of the Posterior Segment	3.00
OPTM 8101	Ocular Disease V: The Eye in Systemic Disease	2.00
Track Name	Optics	
Subject/Course #	Course Title	Credit Hours
OPTM 5050	Optical Science: Geometric and Mechanical Optics	2.50
OPTM 5153/6051	Optical Science: Geometric Optics (Part 2)	2.00
OPTM 6052	Optical Science IV: Ophthalmic Optics	1.50
OPTM 6053	Optical Science V: Physical Optics	3.00
OPTM 6151	Optical Science VI: Physiological Optics	2.50
OPTM 6152	Optical Science VII: Principles of Optical Dispensing & Management	1.00
Track Name	Interprofessional Education	
Subject/Course #	Course Title	Credit Hours
IPE 5000	Patient Centered Cases I	1.00
IPE 5100	Patient Centered Cases II	1.00
IPE 6000	Team Training in Healthcare I	1.00
IPE 6100	Team Training in Healthcare II	1.00
Track Name	Patient Care Services	
Subject/Course #	Course Title	Credit Hours
OPTM 7001	Patient Care Services I: Vision Screening	0.50
OPTM 7002	Patient Care Services II: Clerkship	1.50
OPTM 7003	Patient Care Services III: Clerkship	1.50
OPTM 7004	Patient Care Services IV: Clerkship	1.50
OPTM 7005	Patient Care Services V: Primary Care	3.00
OPTM 7006	Patient Care Services VI: Primary Care	2.50
OPTM 7007	Patient Care Services VII: Primary Care	2.50
OPTM 7008	Patient Care Services VIII: Primary Care	2.50

Track Name	Patient Care Services (Continued)	
Subject/Course #	Course Title	Credit Hours
OPTM 7009	Patient Care Services IX: Primary Care	2.50
OPTM 7010	Patient Care Services X: Primary Care	11.00
OPTM 7011	Patient Care Services XI: Externship	11.00
OPTM 7012	Patient Care Services XII: Externship	11.00
OPTM 7013	Patient Care Services XIII: Externship	11.00

Instructional Methods

A number of different instructional methods will be used to support optimal teaching and learning. Years one through three of the curriculum will include didactic lectures, biomedical laboratories, pre-clinical laboratories, small group learning, clinical education, and service learning. A variety of pedagogical techniques will be used including case-based learning, development of critical thinking techniques, and fostering of clinical thought processes. The fourth and final year of the curriculum will consist of full-time patient care experiences.

Because WesternU graduates are expected to practice in all states and regions, they must be prepared for the broadest scope of practice of any state in the United States. State optometric practice acts have been considered in the curriculum design. Mastery of advanced diagnostic techniques and cutting-edge clinical skills (as demonstrated through lab proficiencies) will enable graduates to practice full-scope optometric care.

A key to the proposed curriculum is to support and encourage collaboration between the various health professions. Interprofessional integration will be incorporated into the curriculum in several areas. It is anticipated that in the first year of the curriculum, optometry students will be enrolled in several didactic courses with the medical, dental, and podiatric students, including:

1. Introduction to the Study of Medicine
2. The Molecular and Cellular Basis of Medicine
3. Introduction to Disease, Immunity & Therapeutics
4. Neuroscience
5. Behavioral Medicine & Psychiatry

Students in the first and second years of the curriculum will also engage in integrated case-based learning within small groups, which will include representatives from each of the health disciplines on the WesternU campus. In the first and third years of the program, students from the College of Optometry will be enrolled, along with students from all health professions, in courses that include a service learning component. The service learning curriculum will incorporate the design, implementation, and evaluation of community-based projects such as outreach to elementary schools and senior citizen groups. The service learning courses will include practical applications of health education, public health, epidemiology and biostatistics.

Interprofessional integration will also carry over to the clinical environment with the development of an interprofessional clinical service in the Patient Care Center, the on-campus facility. Faculty and students

from different disciplines will learn from each other as they provide a team approach to the delivery of health care services. Videotaped patient care encounters that take place in the interprofessional clinic will form a unique digital case library for use in planned Interprofessional Grand Rounds.

The College of Optometry has incorporated into its mission a special emphasis on a unique learning opportunity: optometric rehabilitation. To set the foundation for a deeper understanding of neurological processes, students from the optometry program will enroll in the course, Neuroscience, which is presented in the medical school curriculum. This course integrates basic science disciplines of embryology, histology, neuroanatomy, biochemistry, physiology, and pharmacology within a clinical context. Toward the goal of creating this special emphasis in optometric rehabilitation, the curriculum will also include didactic and laboratory instruction dedicated to the specialized discipline of optometric rehabilitation in the third year of the program. Ocular sequelae and visual consequences of neurological disease, along with perceptual problems and techniques for rehabilitation will be discussed.

In addition to preparing students for full scope optometric practice, the clinical education curriculum will also include components emphasizing optometric rehabilitation. The on-campus clinical programs will also be developed to include hands-on training in optometric rehabilitative patient care and community-based opportunities for optometric rehabilitation, such as in rehabilitation hospitals.

The fourth year is comprised of full-time (40 hours per week) clinical instruction and learning experiences to include:

1. Primary Care Clinical,
2. Advanced Optometric Care,
3. Specialty Optometric Care, and
4. Community Optometric Care

Implementation

Clinical faculty will implement the curriculum in a manner that balances the learning needs of the students and the educational resources available at the site. Clinical faculty and sites are encouraged to use a variety of teaching techniques including observation, monitored participation, video and audio recordings, computers, readings, individual discussions, and presentations by students, faculty and others to enhance learning.

Procedural Skills

Part of the College's expectation is that students will gain a knowledge and understanding of various procedural skills. In addition to proficiency in the psychomotor aspects of procedural skills, the College expects that the student will understand the indications, contraindications, risks, benefits, and alternatives for various procedures. Student performance of any procedure on a patient must be under the direct supervision of the assigned clinical faculty or their professional designee.

Year 1

Year 1, Fall Semester, OD 2019		
Course	Title	Credit Hours
IPE 5000	Patient Centered Cases I	1.00
OPTM 5001	Introduction to Optometry	2.00
OPTM 5005	The Molecular and Cellular Basis of Medicine	6.00
OPTM 5020	Principles and Practice of Optometry I: Primary Care Exam/Techniques	5.50
OPTM 5032	Ocular Physiology	2.00
OPTM 5041	Anatomy for the Optometrist	5.00
OPTM 5050	Optical Science: Geometric and Mechanical Optics	2.50
OPTM 5070	Clinical Medicine for the Optometrist	2.00
OPTM 7001	Patient Care Services I	0.50
Semester Total:		26.50
Year 1, Spring Semester, OD 2019		
Course	Title	Credit Hours
IPE 5100	Patient Centered Cases II	0.50
OPTM 5101	Introduction to Disease, Immunity, and Therapeutics	4.00
OPTM 5104	Neuro-function and Behavior	2.50
OPTM 5120	Principles and Practice of Optometry II: Primary Care Exam/Strategy	4.50
OPTM 5131	Ocular Pharmacology: General Principles	2.00
OPTM 5141	Vision Science I: Neural Basis of Vision	4.00
OPTM 5153	Optical Science: Geometric Optics (Part 2)	2.00
OPTM 5171	Ocular Disease: Diagnosis and Treatment Anterior Segment Part 1	1.50
OPTM 5191	Service Learning	1.00
OPTM 7002	Patient Care Services II	1.50
Semester Total:		23.50
First Year Total:		50.00

Year 2

Year 2, Fall Semester, OD 2018		
Course	Title	Credit Hours
IPE 6000	Team Training in Healthcare I	1.00
OPTM 6021	Principles & Pract Optometry IV: Tissue Eval. Anterior Segment	5.50
OPTM 6031	Ocular Pharmacology: General Principles	2.00
OPTM 6041	Vision Science II: Monocular Sensory Aspects of Vision	3.50
OPTM 6042	Vision Science III: Development of Vision	1.50
OPTM 6051	Optical Science III: Geometric Optics (Part 2)	2.00
OPTM 6052	Optical Science IV: Ophthalmic Optics	1.50
OPTM 6053	Optical Science V: Physical Optics	3.00
OPTM 6071	Ocular Disease I: Diagnosis & Treatment of the Anterior Segment	2.50
OPTM 6091	Service Learning I	0.50
OPTM 7003	Patient Care Services III	1.50
Semester Total:		24.50
Year 2, Spring Semester, OD 2018		
Course	Title	Credit Hours
IPE 6100	Team Training in Healthcare II	1.00
OPTM 6111	Contact Lenses I: Theory and Practice	4.50
OPTM 6121	Principles & Pract of Optometry V: Tissue Eval Posterior Segment	4.00
OPTM 6141	Vision Science V: Binocular Vision and Ocular Motility	3.00
OPTM 6151	Optical Science VI: Physiological Optics	2.50
OPTM 6152	Optical Science VII: Principles of Optical Dispensing & Mgmt.	1.00
OPTM 6171	Ocular Disease II: Diagnosis and Treatment of Glaucoma	2.50
OPTM 6172	Special Considerations in Pediatrics	1.00
OPTM 6173	Systemic Pharmacology	1.50
OPTM 6182	Neuro-Optometric Rehabilitation I: Non-strabismic Anomalies	5.50
OPTM 6191	Service Learning II	1.00
OPTM 6192	CPR	0.50
OPTM 7004	Patient Care Services IV	1.50
Semester Total:		29.50
Year 2, Summer Semester, OD 2018		
Course	Title	Credit Hours
OPTM 6241	Evidence Based Eye Care	1.50
OPTM 6261	Practice Management II	1.50
OPTM 6281	Ocular Disease III: Neurological Disease Diagnosis and Treatment	2.50
OPTM 7005	Patient Care Services V	3.00
Semester Total:		8.50
Second Year Total:		62.50

Year 3

Year 3, Fall Semester, OD 2017		
Course	Title	Credit Hours
OPTM 7006	Patient Care Services VI	2.50
OPTM 7007	Patient Care Services VII	2.50
OPTM 8011	Contact Lenses II: Theory and Practice	3.50
OPTM 8013	Special Considerations in Geriatrics	1.00
OPTM 8021	Principles and Practice of Optometry VI: Special Procedures	1.50
OPTM 8072	Ocular Disease IV: Diagnosis & Treatment of the Posterior Segment	3.00
OPTM 8081	Neuro-Optometric Rehabilitation II: Strabismus and Amblyopia	2.50
OPTM 8082	Neuro-Optometric Rehab III: The Neurologically Challenged Patient	2.00
Semester Total:		18.50
Year 3, Spring Semester, OD 2017		
Course	Title	Credit Hours
OPTM 7008	Patient Care Services VIII	2.50
OPTM 7009	Patient Care Services IX	2.50
OPTM 8101	Ocular Disease V: The Eye in Systemic Disease	2.00
OPTM 8111	Vision Rehabilitation	4.00
OPTM 8121	Patient Presentations in Primary Eye Care	1.50
OPTM 8161	Optometry Review Course	5.00
OPTM 8162	Elective I	1.00
Semester Total:		18.50
Third Year Total:		37.00

Year 4

Year 4, Fall Semester, OD 2016		
Course	Title	Credit Hours
OPTM 7010	Patient Care Services X	11.00
OPTM 7011	Patient Care Services XI	11.00
Semester Total:		22.00
Year 4, Spring Semester, OD 2016		
Course	Title	Credit Hours
OPTM 7012	Patient Care Services XII	11.00
OPTM 7013	Patient Care Services XIII	11.00
OPTM 8261	Practice Management III: How to Make a Living as an Optometrist	1.50
Semester Total:		23.50
Fourth Year Total:		45.50

Course Descriptions

Courses listed in this Catalog are subject to change through normal academic procedures. New courses and changes in existing course work are initiated by the faculty, reviewed and approved by the Curriculum Committee, the faculty, the Associate Dean of Academic Affairs, and the Dean of the College of Optometry.

All courses are awarded letter grades, except when indicated otherwise.

IPE 5000 Patient Centered Cases – An Interprofessional Approach I (1.0 credit hour, CR/NCR)

This course is offered as part of the college curriculum for all first year, entry level health professional students, and is a university requirement for graduation for all participating college programs. The course is designed to prepare the health care student to practice patient-centered collaborative care through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the lifespan.

IPE 5100 Patient Centered Cases – An Interprofessional Approach II (0.5 credit hour, CR/NCR)

Continuation of IPE 5000.

IPE 6000 Team Training in Healthcare I (1.0 credit hour, CR/NCR)

IPE 6000 will continue to build upon the knowledge from the IPE 5000 series, but will expand upon that knowledge and require the student to learn and apply advanced tools and strategies that are crucial to develop a collaborative healthcare team. The majority of the course is independent study with students engaging in a large scale tabletop activity where they apply team tools necessary to solve a healthcare dilemma.

IPE 6100 Team Training in Healthcare II (1.0 credit hour, CR/NCR)

Continuation of IPE 6000.

OPTM 5001 Introduction to Optometry (2.0 credit hours, CR/NCR)

This course provides an exploration of the role of health care providers in the larger society. The course explores philosophical and ethical issues of health care, the impact of health care on society, and of society on health care. Professionalism and professional ethics specific to optometric practice are emphasized. This course includes an introduction to medically relevant fundamental knowledge related to public health, biostatistics, and epidemiology within the context of a community service project.

OPTM 5005 The Molecular and Cellular Basis of Medicine (6.0 credit hours)

This course presents an integration of molecular biology, biochemistry, cellular physiology and metabolism, introductory genetics and developmental histology within the context of their clinical applications of basic biomedical sciences.

OPTM 5020 Principles and Practice of Optometry I: Primary Care Examination and Technique (5.5 credit hours)

This course introduces the components of primary eye care and community-based screenings. Entrance testing, ocular health assessment and refraction techniques will be included. The material presented prepares students to participate in the delivery of patient care. Strategies of examination, sequencing, patient communication, and medical record keeping will be included. In this course, students acquire knowledge, technical skills, and professional attitudes through lecture and laboratory activities.

OPTM 5032 Ocular Physiology (2.0 credit hours)

This course presents in depth coverage of the physiology of the eye, adnexa, and visual systems. Topics include the physiology of the eyelids, lacrimal apparatus, tear production, cornea and lens, ocular fluid dynamics, retina and optic nerve.

OPTM 5041 Anatomy for the Optometrist (5.0 credit hours)

This course covers all aspects of anatomy relevant to the practice of Optometry. Course content covers broad aspects of gross anatomy. Ocular anatomy is covered in detail. Head and Neck anatomy including adnexa, orbit, orbital content, and ocular relevant cranial nerves are also covered in detail.

OPTM 5050 Optical Science: Geometric and Mechanical Optics (2.5 credit hours)

This course presents foundational information on geometric optics, including basic ray tracing, the study of reflection and refraction at plane and curved surfaces, single refracting surfaces, thin lenses, thick lenses, prisms, and sphero-cylindrical lenses. Foundational material is applied to theory of ophthalmic optics, including lens power measurement, ophthalmic spectacle lens prescription writing, and elementary spectacle lens characteristics.

OPTM 5070 Clinical Medicine for the Optometrist (2.0 credit hours)

This course provides a survey of all major, common and/or highly morbid systemic diseases involving all major bodily systems. Diseases are included either because they should be familiar to every health care provider or because they are often accompanied by important ocular signs or symptoms. For each disease, the course covers the expected presenting signs and symptoms, basic pathophysiology, and general treatment, management, and prognosis. This course provides a foundation for practice in primary health care and for the Ocular Disease courses that follow in the curriculum.

OPTM 5101 Introduction to Disease, Immunity, and Therapeutics (4.0 credit hours)

This is an integrated course introducing microbiology, immunology, pathology, and pharmacology to prepare students for more in-depth study during clinical science courses. Genetics, as related to these disciplines, is also included. Clinical applications of the basic sciences are emphasized.

OPTM 5104 Neuro-function and Behavior (2.5 credit hours)

This course presents foundational information on topics related to the brain and nervous system, covering concepts from basic science, clinical science, and behavioral science. An overview of neuro-function will include key basic science concepts as applied to the nervous system. Clinical topics include neurological diseases and disorders. The course also presents biological, psychological, and social aspects of behavior in relation to the delivery of health care.

OPTM 5120 Principles and Practice of Optometry II: Primary Care Examination and Strategy (4.5 credit hours)

This course builds upon the foundation established in Principles and Practice of Optometry I and integrates new techniques within the context of the comprehensive eye examination sequence. The course introduces the clinical thought processes required to diagnose and manage common refractive and ocular conditions including specific cognitive skills required for delivery of patient care. Students will be introduced to various modes of optometric practice, including an overview of opportunities for employed positions, group practices, and self-employment. Strategy of examination, sequencing, patient communication, clinical decision making, and medical record keeping will be included.

OPTM 5131 Ocular Pharmacology: General Principles (2.0 credit hours)

This course focuses on the pharmacodynamics and pharmacokinetics of agents used for the diagnosis and treatment of ocular conditions. Topics include general principles of drug penetration into the eye and drug elimination from the eye and systemic absorption of medications administered topically to the eye. Principles of drug administration including the use of ophthalmic suspensions and ointments, oral medications, and injectables will be discussed.

OPTM 5141 Vision Science I: Neural Basis of Vision (4.0 credit hours)

This course presents the underlying mechanisms of vision from a neurophysiological perspective, including the construction of representations of the world via neural information processing from retina to tectum and primary visual cortex and to visual areas beyond striate cortex.

OPTM 5153 Optical Science: Geometric Optics – Part 2 (2.0 credit hours)

This course completes the presentation of geometric optics. The course emphasizes the study of refraction at complex lens systems, optical instruments, optical aberrations, ray tracing including the presence of pupils, stops and ports.

OPTM 5171 Ocular Disease: Diagnosis and Treatment Anterior Segment Part 1 (1.5 credit hours)

This course builds upon prior and concurrent information presented in ocular anatomy and physiology, pharmacology, clinical medicine, and the Principles and Practice of Optometry curricular track. Advanced concepts in diagnosis and management of diseases of the anterior structures of the eye are emphasized. The anatomical, physiological, histological, and pathological processes relating to these diseases will be explored.

OPTM 5191 Service Learning (1.0 credit hour, CR/NCR)

This course builds upon the foundation of the role of health care providers in the larger society covered in OPTM 5001, Introduction to Optometry. During the course, students will contribute 24 hours of their time to a service learning project. Students will interact with the community, many of who are underserved.

OPTM 6021 Principles and Practice of Optometry IV: Tissue Evaluation of the Anterior Segment (5.5 credit hours)

As the fourth course in the series, new clinical skills will be integrated within the context of the primary care optometric examination. Emphasis will be placed on health assessment of the anterior ocular segment including slit lamp biomicroscopy, tonometry, and gonioscopy along with a variety of techniques for examination of the ocular adnexa. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included.

OPTM 6031 Ocular Pharmacology: General Principles (2.0 credit hours)

This course focuses on the pharmacodynamics and pharmacokinetics of agents used for the diagnosis and treatment of ocular conditions. Topics include general principles of drug penetration into the eye and drug elimination from the eye and systemic absorption of medications administered topically to the eye. Principles of drug administration including the use of ophthalmic suspensions and ointments, oral medications, and injectables will be discussed.

OPTM 6041 Vision Science II: Monocular Sensory Aspects of Vision (3.5 credit hours)

This course sets the foundation for the theory and methods of vision testing and visual perception through one eye. It covers concepts including light stimuli, photometry, signal detection, physiological processing of information, and psychophysics. Topics include visual sensitivity, spatial phenomena, modulation transfer function, flicker detection, contrast sensitivity, and visual acuity. Visual perception and the constancy of visual processes such as size and distance perception, form perception, the perception of motion and achromatic color perception are discussed. Electrophysiology of the visual system will be introduced.

OPTM 6042 Vision Science III: Development of Vision (1.5 credit hours)

This course covers the development of and visual function from conception through adolescence. Implications of abnormal development and resulting clinical pathologies are discussed. The physiological and psychological bases of strabismus and amblyopia are presented and reinforced through clinical examples.

OPTM 6051 Optical Science III: Geometric Optics – Part 2 (2.0 credit hours)

This course completes the presentation of geometric optics. The course emphasizes the study of refraction at complex lens systems, optical instruments, optical aberrations, ray tracing including the presence of pupils, stops and ports.

OPTM 6052 Optical Science IV: Ophthalmic Optics (1.5 credit hours)

This course presents the theory and application of ophthalmic optics. Spectacle lens characteristics and the optics of multi-focal lenses are covered in depth. The optics of contact lenses and magnification systems are also introduced.

OPTM 6053 Optical Science V: Physical Optics (3.0 credit hours)

This course presents the physics of light, including the wave and particle behavior of light. In particular, the course will include the characteristics of electromagnetic radiation, wave motion, total and partial coherence of light, interference, diffraction (single slit, double slit, gratings, circular apertures), zone plates, polarization, birefringence, anti-reflecting lens coatings, lasers, emission and absorption spectra. Examples of applications in vision science and ocular diagnostic instruments will be provided.

OPTM 6071 Ocular Disease I: Diagnosis and Treatment of the Anterior Segment (2.5 credit hours)

This course builds upon the framework presented in the Principles and Practice of Optometry curricular track to present advanced concepts in ocular disease diagnosis and management. The anatomical, physiological, histological, and pathological processes of ocular disease of structures at the front of the eye will be emphasized. Laboratory experience in imaging of the lens and anterior segment will be presented.

OPTM 6091 Service Learning I (0.5 credit hour, CR/NCR)

Service Learning I is the first part of a two semester long course providing students with medically-relevant fundamental knowledge related to public health, biostatistics, and epidemiology within the context of a community service project. During the fall semester, students will be prepared to assess specific public health needs within the community in preparation for the hands-on community service project to be performed during the spring semester. As such, the first semester will cover topics such as public health, program planning and design, basic epidemiology, biostatistics, and research methods. The first semester experience will primarily focus on achieving competence in the didactic material and performing independent research to prepare for the spring semester's community-based service project.

OPTM 6111 Contact Lenses I: Theory and Practice (4.5 credit hours)

This course introduces the use of contact lenses in primary care optometry. The clinically based approach will include discussion of patient selection for lens wear, selection of appropriate materials, lens design, wearing schedules, and trouble-shooting. Laboratory experience in lens design, lens modifications, contact lens fittings and assessments will prepare students for patient care experiences.

OPTM 6121 Principles and Practice of Optometry V: Tissue Evaluation of the Posterior Segment (4.0 credit hours)

As the fifth course in the series, new clinical skills will be integrated within the context of the primary care optometric examination. Emphasis will be placed on health assessment of the posterior ocular segment, the vitreous, and the optic disc. Techniques include binocular indirect ophthalmoscopy and fundus biomicroscopy with 78/90D lens and Goldmann three-mirror. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included as well as the detection of common normal and abnormal findings. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included. This course completes the integration of clinical skills into the comprehensive primary care examination.

OPTM 6141 Vision Science V: Binocular Vision and Ocular Motility (3.0 credit hours)

This course covers concepts related to accommodation, binocular vision, and ocular motility. Concepts including the horopter, stereopsis, vision, rivalry, and aniseikonia are covered. The anatomy and physiology of the extraocular muscles, innervations and actions associated with types of eye movements and their control mechanisms are reviewed. Concepts of clinical assessment, diagnosis, and management are introduced. Case examples are used to illustrate key concepts. Vision Science Track

OPTM 6151 Optical Science VI: Physiological Optics (2.5 credit hours)

Physiological optics of the eye and an introduction to the correction of ametropias will be presented. The various axes, angles, and landmarks of the eye will be presented in optical terms with the eye as an optical system. Characteristics of the ocular media and the interaction of light with the eye will be discussed. Optical aspects of accommodation, presbyopia, aphakia, and pseudophakia will be included. The role of the pupil as it affects depth of field, aberrations and accommodation will be described.

OPTM 6152 Optical Science VII: Principles of Optical Dispensing and Management (1.0 credit hour)

The course covers the theory and methods of managing an optical dispensary for patient satisfaction and profit. This course includes cases and examples of patients with eye glass concerns. Students will work in small groups to troubleshoot and remediate the needs of the patient through the application of ophthalmic optics formulas and principles.

OPTM 6171 Ocular Disease II: Diagnosis and Treatment of Glaucoma (2.5 credit hours)

This course covers the pathophysiology, diagnosis, treatment and management of patients with all forms of glaucoma, with an emphasis on evidence-based therapeutic interventions. The course includes technique and interpretation of visual fields for glaucoma diagnosis and management. Topical and systemic medical therapies will be emphasized. The course will also discuss current surgical management of various forms of glaucoma. This course fulfills the didactic requirements under the California Regulations for glaucoma licensure.

OPTM 6172 Special Considerations in Pediatrics (1.0 credit hour)

This course emphasizes the optometric care of patients from birth through age eight. The identification of children at risk for developing ocular, visual, perceptual, or visually-related learning problems will be integrated with a discussion of strategies for diagnosis and management. Schema of normal growth and development with an emphasis on expected visual development from birth through childhood will be presented. Particular emphasis will be placed on prevalent conditions, and conditions with a high level of clinical criticality. An overview of care for children with special needs will also be presented. Examination techniques unique to the pediatric patient, including the use of hand-held instrumentation, special testing, and the provision of eye care in the school system will be discussed.

OPTM 6173 Systemic Pharmacology (1.5 credit hours)

This course will cover medications commonly prescribed for systemic conditions, their indications and mode of action, as well as their ocular and visual side effects and toxicities.

OPTM 6182 Neuro-Optometric Rehabilitation I: Non-strabismic Anomalies (5.5 credit hours)

This course introduces the common signs and symptoms associated with non-strabismic disorders of the binocular, accommodative, and perceptual systems. Diagnosis, treatment, management and problem solving for common conditions will be introduced. Techniques for vision therapy and vision therapy programming will be discussed. Students will have the opportunity to experience optometric vision therapy treatment first-hand.

OPTM 6191 Service Learning II (1.0 credit hour, CR/NCR)

Continuation of OPTM 6091.

OPTM 6192 CPR (0.5 credit hour, CR/NCR)

This course covers basic cardiopulmonary resuscitation for adults and children.

OPTM 6241 Evidence Based Eye Care (1.5 credit hours, CR/NCR)

This course will emphasize the application of published literature to clinical decision making. Students will learn how to select and critique appropriate and relevant information within the context of patient care scenarios. Strategies for informed clinical decision making and for life-long learning will be demonstrated.

OPTM 6261 Practice Management II (1.5 credit hours, CR/NCR)

This practical course will bring experts from the fields of marketing, management, finance, and law to help students develop personal strategies for their professional futures. Professional goal-setting, networking, selection of practice location, and leadership will be emphasized. Work for this course begins in the preceding spring semester, however, registration and receipt of the final grade occurs in the summer semester.

OPTM 6281 Ocular Disease III: Neurological Disease Diagnosis and Treatment (2.5 credit hours)

A problem-oriented approach is used to explore the diagnosis and treatment of diseases affecting the visual system, including the optic nerve, facial neuropathy, facial asymmetries including anisocoria, ptosis of neurological etiology, oculomotor, accommodative, sensory, and vergence problems. Practical aspects of neurological evaluation and assessment of the cranial nerves is included in the laboratory portion. Advanced assessment of incomitancy is presented. The rationale and methods for various treatment strategies will be presented.

OPTM 7001 Patient Care Services I (0.5 credit hour, Honors/Pass/Remedial/No Pass)

Students will spend 4 hours per week for 7 weeks participating in community-based vision screenings. Techniques learned in Principles and Practice of Optometry I will be applied in the delivery of patient care via screenings. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I is a prerequisite for matriculating in PCS-I.

OPTM 7002 Patient Care Services II (1.5 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to 4 hours per week in the off-campus clinics or optometric practices and in the on-campus clinical facility performing entrance testing and assisting in the optical dispensary service. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-II is a prerequisite for matriculating in PCS-II.

OPTM 7003 Patient Care Services III (1.5 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to 4 hours per week of patient care service for two 8-week rotations in the on-campus clinical facility or in off-campus eye care facilities. Student will perform a variety of activities including community-based screenings, technician and paraoptometric testing, initial portions of the patient eye exam up to their training level. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I, II, & III is a prerequisite for matriculating in PCS-III.

OPTM 7004 Patient Care Services IV (1.5 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to 4 hours per week of patient care service for two 8-week rotations in the on-campus facility. Student will perform a variety of activities including community-based screenings, technician and paraoptometric testing, and all components of optometric testing leading up to completion of a comprehensive eye examination by the end of the spring semester. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through IV is a prerequisite for matriculating in PCS-IV.

OPTM 7005 Patient Care Services V (3.0 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to primary eye care services for a total of 72 hours for 2 weeks and to an additional 40 hours for 1 week in a specialty care group in the on-campus facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through V is a prerequisite for matriculating in PCS-V.

OPTM 7006 Patient Care Services VI (2.5 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to 12 hours per week of patient care in primary eye care, contact lenses, and vision therapy. Students will assume an increasing role and increasing responsibility for the delivery of patient care. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through V is a prerequisite for matriculating in PCS-VI.

OPTM 7007 Patient Care Services VII (2.5 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to 12 hours per week of patient care in primary eye care, contact lenses, and vision therapy. Students will assume an increasing role and increasing responsibility for the delivery of patient care. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through V is a prerequisite for matriculating in PCS-VI.

OPTM 7008 Patient Care Services VIII (2.5 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to 12 hours per week of patient care in primary eye care, contact lenses, and vision therapy. Students will assume an increasing role and increasing responsibility for the delivery of patient care. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through V is a prerequisite for matriculating in PCS-VII.

OPTM 7009 Patient Care Services IX (2.5 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to 12 hours per week of patient care in primary eye care, contact lenses, and vision therapy. Students will assume an increasing role and increasing responsibility for the delivery of patient care. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through V is a prerequisite for matriculating in PCS-VII.

OPTM 7010 Patient Care Services X (11.0 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through VI is a prerequisite for matriculating in PCS-VIII.

OPTM 7011 Patient Care Services XI (11.0 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through VI is a prerequisite for matriculating in PCS-IX.

OPTM 7012 Patient Care Services XII (11.0 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through VI is a prerequisite for matriculating in PCS-X.

OPTM 7013 Patient Care Services XIII (11.0 credit hours, Honors/Pass/Remedial/No Pass)

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or auxiliary clinical faculty members. Earning a passing grade in PPO-I through VI is a prerequisite for matriculating in PCS-XI.

OPTM 7101 Essentials of Optometric Clinical Care (4.0 credit hours, Honors/Pass/Remedial/No Pass)

This course offers closely supervised patient encounters in addition to those obtained during the regular Patient Care Services experience in order to reinforce the psychomotor and cognitive skills required to provide entry-level patient care. This course is only open to students with prior approval of the Dean of the College of Optometry.

OPTM 8011 Contact Lenses II: Theory and Practice (3.5 credit hours)

This course builds upon the basic knowledge presented in Contact Lenses 1. Case examples will be used to encourage independent decision making for complicated problems in contact lens fitting. Strategies for specialized contact lenses including keratoconic lenses, therapeutic lenses, post-surgical patients and contact lenses for infants will be discussed.

OPTM 8013 Special Considerations in Geriatrics (1.0 credit hour)

This course will discuss the changes expected in the visual system associated with the aging process. Diagnosis and treatment of selected refractive conditions, eye diseases, and visual anomalies common in aging adults will be presented. Psychosocial aspects and geriatric case management will be incorporated into case examples. Examination techniques unique to the geriatric patient, including the use of hand-held instrumentation, special testing, and the provision of eye care in long term care facilities will be discussed.

OPTM 8021 Principles and Practice of Optometry VI: Special Procedures (1.5 credit hours)

This course will cover the theory and methods of clinical techniques that build upon basic examination skills acquired during the courses Principles and Practice of Optometry I through V. Clinical techniques including ocular cultures, scleral depression, A- and B-scan ultrasonography, punctal occlusion, punctal dilation and irrigation, removal of foreign bodies from the cornea and conjunctiva, and injection techniques will be presented in a hands-on format. The course will include techniques for imaging of the lens and anterior segment.

OPTM 8072 Ocular Disease IV: Diagnosis and Treatment of the Posterior Segment (3.0 credit hours)

This course builds upon the framework presented in the Principles and Practice of Optometry curricular track to present advanced concepts in ocular disease management. The anatomical, physiological, histological, and pathological processes of ocular disease will be emphasized. Topics include in-depth discussion of diseases and abnormalities of the vitreous and retina as well as vitreo-retinal pathology associated with systemic diseases. Laboratory experience in retinal photography and advanced visual field assessment will be presented.

OPTM 8081 Neuro-Optometric Rehabilitation II: Strabismus and Amblyopia (2.5 credit hours)

This course builds on the knowledge and skills developed in the course, Behavioral Optometry Diagnosis and Treatment, and extend the application of that knowledge and those skills to the strabismic disorders and amblyopia. Topics will include differential diagnosis of congenital and acquired strabismus and the etiology and differential diagnosis of amblyopia, as well as a comprehensive presentation of evidence-based treatment options for both strabismus and amblyopia.

OPTM 8082 Neuro-Optometric Rehabilitation III: The Neurologically Challenged Patient (2.0 credit hours)

This course elaborates on the complexities of optometric care for patients who have suffered neurological impairment from a variety of etiologies. Ocular and visual consequences of neurological disease will be discussed. Perceptual problems associated with dyslexia, reading and learning disabilities, developmental abnormalities, stroke, Alzheimer's disease, and traumatic brain injury will be explored. Co-management and interprofessional communications will be discussed. Tests for cognitive function, memory, and perception will be discussed. Various methods and techniques for rehabilitation will also be presented in a hands-on format.

OPTM 8101 Ocular Disease V: The Eye in Systemic Disease (2.0 credit hours)

This course presents an overview of the most prevalent systemic conditions, and systemic conditions with significant ocular manifestations. Pathophysiology, clinical signs and symptoms, and an overview of diagnostic and management approaches will be presented. Emphasis will be placed on inter-professional communications for management of complex conditions.

OPTM 8111 Vision Rehabilitation (4.0 credit hours)

This course presents examination techniques and management strategies for people with visual impairments. Principles of optical and non-optical assistive devices and applications of rehabilitative services will be discussed. Psychosocial aspects and interdisciplinary care are included. Evaluation of visual disability and legal aspects of visual impairment will be discussed. The laboratory experience will provide hands-on opportunities to learn about rehabilitation techniques.

OPTM 8121 Patient Presentations in Primary Eye Care (1.5 credit hours)

This course reviews information previously taught in the curriculum but reorganizes it on the basis of patient presentation. Topics include the patient who presents with blurry vision, loss of vision, diplopia, anisocoria, facial asymmetry, eye or head pain, asthenopia, and red eye. The emphasis of the course is on differential diagnostic thought processes and the problem-focused case history. Key questions to ask and formal algorithms for diagnosis will be presented for each presentation.

OPTM 8122 Cognitive Processes in Optometry (2.0 credit hours, Honors/Pass/Remedial/No Pass)

This course offers concentrated review of information and problem solving in a specific curricular track for students who need reinforcement in a particular area. The area of concentration can be chosen from among the following tracks in the College of Optometry curriculum: Optical Science, Principles and Practice of Optometry, Vision Science, Optometric Rehabilitation, Ocular Disease. This course is only open to students with prior approval of the Dean of the College of Optometry.

OPTM 8161 Optometry Review Course (5.0 credit hours, CR/NCR)

This course will cover previously taught material that is relevant to the clinical practice of Optometry. Work for this course begins in the preceding fall semester, however, registration and receipt of the final grade occurs in the spring semester.

OPTM 8162 Elective I (1.0 credit hour, CR/NCR)

Students may choose from a variety of course offerings to further their understanding of contemporary topics in optometry or in health care. Courses will be offered on topics relevant to students enrolled in all health professions programs and will encourage further interdisciplinary interactions. Topics may include, but are not limited to, nutrition, genetics, Spanish for health care providers, health care for vulnerable populations, international health, and so on.

OPTM 8261 Practice Management III: How to Make a Living as an Optometrist (1.5 credit hours)

This course will provide information relevant to entry into the business of clinical optometric practice, including information on billing and coding, employee relations, how to navigate the process of becoming a panel member, considerations in partnership formation, leasing and managing the facilities, entrepreneurship, sales and marketing of spectacles, contact lenses, and vision therapy, and tips on how to grow a patient base.

Honors and Awards

The College hosts two annual events for presentation of awards and scholarships: Founder's Day and Honor's Day. Founder's Day, held in the early fall, is a unique event to recognize students, faculty and other pioneers in the field of optometry. The following student honors, awards, and scholarships are currently presented on Founder's Day:

- A Tribute to Caring Scholarship
- AOF/Pat Cummings Scholarship
- Beta Sigma Kappa (BSK) recognition
- Founding Dean Scholarship
- Richmond Products Scholarship
- The Great Western Council of Optometry Scholarship
- VOLK Lens Award
- Walmart Scholarship
- WesternU Eye Care Center Core Values Award

Honor's Day is held each year in the spring, and is used to recognize students for their year-long accomplishments. The following student honors, awards, and Scholarships are currently presented on Honor's Day:

- College of Optometry Core Values Award
- College of Optometry Grand Slam Award
- The Dean's List Award
- The Dean's Scholarship
- The Hayes-Haine Family Scholarship
- The HOYA House Cup
- The President's Society Scholarship
- The Walmart Project ForeSight Scholarship
- The WUCO Basketball Trophy
- Who's Who Award

Academic Calendar

Fall 2015	
May 27, 2015	Fall Classes Begin (Year 4)
July 3, 2015	Independence Day Observed, No Classes*
August 3-7, 2015	Orientation/Welcome Week (Year 1)
August 8, 2015	Convocation/White Coat Ceremony (Year 1)
August 10, 2015	Fall Classes Begin (Years 1-3)
September 7, 2015	Labor Day, No Classes*
October 12, 2015	Columbus Day, No Classes*
November 6, 2015	Fall Classes End (Year 4)
November 25, 2015	Thanksgiving Recess Begins @ 5:00 p.m.*
November 30, 2015	Fall Classes Resume
December 18, 2015	Fall Classes End (Years 1-3)
December 21, 2015	Winter Recess Begins (Years 1-3)
Spring 2016	
November 9, 2016	Spring Classes Begin (Year 4)
January 4, 2016	Spring Classes Begin (Years 1-3)
January 18, 2016	Martin Luther King Day, No Classes*
February 15, 2016	President's Day, No Classes*
March 14-18, 2016	Board Examinations, No Classes (Year 3)
March 21, 2016	Spring Break Begins (Years 1-3)
March 28, 2016	Spring Classes Resume (Years 1-3)
May 13, 2016	Spring Classes End (Year 4)
May 18-20, 2016	Commencement
May 27, 2016	Spring Classes End (Years 1-3)
Summer 2016	
May 31, 2016	Summer Classes Begin (Year 2)
July 4, 2016	Independence Day Holiday, No Classes
July 5, 2016	Summer Classes Resume (Year 2)
July 29, 2016	Summer Classes End (Year 2)

**Students in clinical courses observe their preceptor's hours, which may include working on federal holidays.*

The 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