

# School of Optometry

## Administration

### School of Optometry

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## Overview

### Purposes

The following are major purposes of the optometry program:

- to qualify men and women for the practice of optometry
- to instill in the graduate a scientific and professional attitude
- to provide a background for the graduate's contribution to the civic and social welfare of the community
- to encourage and facilitate graduate and postgraduate study in optometry and vision science
- to encourage and facilitate research in the clinical aspects of optometry and in the fundamental sciences germane to optometry
- to contribute to the scientific and professional literature

### Geographical Distribution of Students

Students enrolled in the School of Optometry's optometry and vision science programs represent approximately 30 states and several foreign countries.

## History

In 1951, the General Assembly of the State of Indiana established a program in optometry at Indiana University. The first year of preoptometry courses was offered beginning in the fall semester of 1951–52, the first professional courses were offered in 1953–54, and the

first Master of Optometry (M.Opt.) degrees were awarded in 1956. In recognition of the vital role of vision research, the graduate degree programs in physiological optics were early priorities (M.S., 1953; Ph.D., 1955).

The program in optometry operated as a division of the university, with its degrees granted by the College of Arts and Sciences and the Graduate School, until the 1975–76 school year, at which time it became a degree-granting school of the university.

A continuous fund was created to support the establishment of the optometry program by adding a special fee to the annual license renewal fee of each practicing optometrist in Indiana. Additional funds and gifts, including a substantial collection of library books, were contributed through the auspices of the Indiana Optometric Association. As a permanent endowment program, the Optometry School Trust Fund was created as a division of the Indiana University Foundation for the general purpose of receiving and accepting gifts, bequests, pledges of money, etc., for the benefit of the optometric work to be carried on at Indiana University.

The building for the Division of Optometry and the Program in Physiological Optics was completed in 1967. This six-story, limestone-faced building is located on East Atwater Avenue and provides space for classrooms, laboratories, offices, student resource center, and supporting research and development activities. In 1992, the School of Optometry opened the Indianapolis Eye Care Center (IECC) in a newly constructed building at 501 Indiana Avenue in Indianapolis. Offering an expanded scope of patient care services, the IECC is located near the campus of Indiana University–Purdue University Indianapolis. Fourth-year optometry students receive additional clinical training through external rotations at locations such as Veterans Administration facilities, Indian Health Service clinics, military hospitals, and referral centers.

In 1971, in cooperation with the then-existing Division of General and Technical Studies of Indiana University, the School of Optometry established a two-year program for the preparation of optometric technicians. In 1980, the Indiana University School of Optometry established a two-year program for the training of opticians. In 1987, the School of Optometry combined the optician and technician programs into one. In 2013 a certificate program was initiated for the Optician/Technician program. In 2016, the program was transferred to Ivy Tech Community College of Indiana.

In 1995, a portion of the clinic in the Optometry Building was dedicated as the Borish Center for Ophthalmic Research. The center's mission is to abet and develop clinical and applied research support and to facilitate investigations in visual disorders, ocular pathologies, and systemic diseases that affect the eye and its adnexa. The Borish Center provides an arena for the development of clinical researchers in vision and for the training of graduate students, residents, and fellows.

## Mission, Vision, and Goals

The **mission** of the School of Optometry is to protect, advance and promote the vision, eye care and health of people worldwide by:

- Preparing individuals for careers in optometry, the ophthalmic industry and vision science; and
- Advancing knowledge through teaching, research and service.

This will be accomplished through the Doctor of Optometry, residency and graduate programs.

Our **vision** is that IUSO is recognized world-wide for excellence in optometric education and vision research that shapes the profession and impacts the lives of patients and communities.

The 2017–2022 **goals** of the School of Optometry focus on four areas:

- Create effective teaching environment that engages students and enhances integrated learning
- Deliver excellent patient centered care while providing IUSO students with exceptional clinical experiences
- Advance vision science and its applications to eye care and communicate research results for the benefit of patients, the university, state, nation, and world.
- Expand the network of people who are informed about and invested in the success of the school.

## Membership & Accreditation

The School of Optometry is a member of the [Association of Schools and Colleges of Optometry](#) and is accredited by the [Accreditation Council on Optometric Education of the American Optometric Association](#), the official optometric agency recognized by the National Commission on Accrediting, and by the Association of Regulatory Boards of Optometry. Optometry students and graduates are eligible to take the annual examinations of the [National Board of Examiners in Optometry](#).

## Degrees Offered

For more information, contact the Office of Student Administration, School of Optometry, Indiana University, 800 E. Atwater Avenue, Bloomington, IN 47405-3680; (812) 855-1917; e-mail [iubopt@indiana.edu](mailto:iubopt@indiana.edu).

Bachelor of Science in Optometry (B.S.) (School of Optometry) For Early Admission Candidates  
A Bachelor of Science degree is offered by the School of Optometry. It is available only to those students who have not completed a bachelor's degree before enrolling in the professional (O.D.) degree program. It requires a minimum of 90 credit hours to include satisfactory completion of all optometry prerequisites and of the course work specified in the section of this bulletin titled "Bachelor of Science in Optometry Degree."

### Doctor of Optometry (O.D.) (School of Optometry)

The Doctor of Optometry degree is offered by the School of Optometry. It requires fulfillment of a bachelor's degree (before or after enrollment), including all preoptometry requirements and satisfactory completion of the four-year professional curriculum. The specific requirements are described in the section of this bulletin entitled "Doctor of Optometry Degree." Holders of this degree are eligible to apply for examinations for licensure by the Indiana Optometry Board or by corresponding agencies in other states.

### Master of Science and Doctor of Philosophy (M.S., Ph.D.) (University Graduate School)

Offered by the University Graduate School in conjunction with the School of Optometry, the two degree programs in vision science are designed primarily for those who wish to devote themselves to teaching and research in the field of vision.

### Combined Degree Programs

Indiana University's Vision Science Program has a proud tradition of training more than 75 doctoral graduates and nearly 100 master's graduates who have gone on to productive academic or clinical careers. Many have held prestigious leadership positions in academia and national and/or international research organizations. Because of the increasing cost of higher education, it has become difficult for optometry graduates to pursue M.S. or Ph.D. degrees after completing optometry training. The Indiana University School of Optometry has developed combined degree programs in conjunction with the University Graduate School to allow students to work toward an M.S. or Ph.D. simultaneously with the O.D. degree. The two combined degree programs are designed to attract students interested in careers devoted to the creation of new knowledge in clinical and/or academic optometry. A number of financial support mechanisms are available.

### Business of Eye Care (Business Management Certificate, M.B.A)

Through a Kelley School of Business / Indiana University School of Optometry partnership, the eye care industry is supported by the Kelley Executive Certificate in the Business of Eye Care (ECBE). This Kelley Executive Partners program allows working professionals and professional students to learn the business side of eye care using the same proven method of learning honed in the school's highly acclaimed Kelley Direct online MBA program.

### Application for Degrees

The School of Optometry awards B.S., and O.D. degrees in May, June, August, and December. Candidates for these degrees should submit degree applications to the Office of Student Administration of the School of Optometry at least two months in advance of anticipated graduation. Candidates for the M.S. and Ph.D. degrees should consult the University Graduate School Bulletin.

## Continuing Education

The School of Optometry offers continuing education to licensed optometrists several times each year. The offerings carry continuing education relicensure credit. The school has also developed courses accessible through the Internet to be taken for continuing education credit. For information on standard and online continuing education courses please visit the [Continuing Education homepage](#).

Inquiries should be addressed to:

Indiana University  
School of Optometry  
Office of Continuing Education  
800 E. Atwater Avenue  
Bloomington, IN 47405-3680  
(812) 856-3502

## Contact Information

Indiana University [School of Optometry](#)

800 East Atwater Avenue  
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[iusoce@indiana.edu](mailto:iusoce@indiana.edu)

## Professional Optometry Degree Program (OD)

### 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.

— As adopted by the American Optometric Association and the Association of Schools and Colleges of Optometry

### Preoptometry Requirements

- Pre-optometry requirements must be completed by the time the student enters the School of Optometry.
- Students must take their pre-optometry course work at an accredited institution and earn a grade of C or higher.
- Up to 10 credit hours of on-line courses may be taken with ALL labs completed in a classroom setting.
- Up to 60 credit hours of Community/Junior/Technical College course work are accepted.
- Up to 10 credit hours of Advanced Placement (AP) course(s) for the prerequisite(s) are accepted provided you received the appropriate number of credit hours. The courses must appear on your official college transcript and show you received college credit for the course(s). If your college or university does not show this information on the

official transcript, you will need to provide a letter sent to us from the Registrar's Office documenting the credit awarded for the AP course(s).

- All preoptometry requirements must have been completed within 10 years from the time when the student hopes to start the Doctor of Optometry program.
- Applications must be submitted to OptomCAS ([www.optomcas.org](http://www.optomcas.org)) July 1.
- For additional details, please visit [IU School of Optometry's How to Apply](#) web page.

**Students entering with a bachelor's degree must have completed the following courses:**

Subject Area	Min. sem. cr. hrs. req'd.	Comparable IU courses
Biology/Zoology		
• Introductory, 4 with lab	4	L 112 and L 113
• Advanced (animal or developmental)	3	ANAT-A 215 or PHSL-P 215
• Microbiology, 4 with lab	4	M 250/M 315 or M 380/M 315
Chemistry		
• Organic	3	C 341 (C 342)
• Inorganic, with labs	8	C 117/C 127 and C 118 or N 330
• Biochemistry (can be listed under Biology)	3	CHEM-C 383, CHEM-C 483 or BIOL-M 350 (For Microbiology majors only)
Mathematics		
• One course	3	Any course or courses fulfilling IU Math modeling requirements
Physics		
• General	8	P 201 and P 202
Statistical Techniques and/or Experimental Design	3	STAT S 300 or S 303, PSY K 300 or K 310 SPEA K 300 or Econ E 370 or Math K 310
Psychology, Introductory	3	P 101 or P 155
Writing Skills - two courses; English Composition and an additional course with a strong writing component	6	W 131 and the Intensive Writing Requirement

**Students entering the Indiana University School of Optometry without a bachelor's degree must have completed the following courses in addition to the above:**

Subject Area	Min. sem. cr. hrs. req'd.
Arts and Humanities	6
Foreign Language	6*
Social and Historical Studies	6
Additional Credits	as needed
Total Credits	90

Of the 90 credit hours, at least 12 must be at the 300-400 level. A maximum of 60 semester hours may be taken at a community college.

\*Two years of a foreign language in high school will fulfill this requirement.

None of the required courses may be taken on a Pass/Fail basis. The credit hours required in the individual subjects are considered absolute minimums, which must be met or exceeded. If the credit hours in any subject total fewer than the minimum specified, the student should complete the next higher course in that subject. Quarter hours convert to semester hours by the following scale:

3 quarter hours = 2 semester hours  
 4 quarter hours = 3 semester hours  
 5 quarter hours = 3.33 semester hours  
 6 quarter hours = 4 semester hours

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## Degree Requirements

### Doctor of Optometry (O.D.) Degree

The courses required for this degree are listed in the section of this bulletin entitled "Optometry Curriculum." All of the courses except those identified as electives must be completed. A baccalaureate degree is required prior to receiving the O.D. degree. The curricular requirements for preoptometry are described in the section of this bulletin entitled "Preoptometry Requirements."

Students are responsible for understanding all requirements for graduation and for completing them by the time they expect to graduate.

### Optometry Curriculum

The curriculum includes instruction in all of the clinical and practical phases of optometry as well as in the theoretical and fundamental aspects of vision science. It requires four years of professional degree courses, including at least a summer assignment before the third year. The university schedules two regular academic semesters and a summer session. Most optometry courses are scheduled for a full academic semester.

### Extended Curriculum

In select cases IUSO will offer admission to an extended curriculum. The extended curriculum includes all of the regular curriculum professional degree courses plus two additional vision science courses sequenced to be completed over five years.

### Doctor of Optometry Curriculum

#### First Year

##### First Semester

V 521	Geometric and Visual Optics I	4.0 cr.
V 540	Ocular Biology I	4.0 cr.
V 542	Systems Approach to Biomedical Sciences I	5.5 cr.
V 550	Clinical Sciences I	3.0 cr.
V 554	Optometric Profession I	0.5 cr.
V 574	Intro to Epidemiology and Optometric Research	2.0 cr.
	<b>Total</b>	<b>19.0 cr.</b>

##### Second Semester

V 501	Integrative Optometry I	2.0 cr.
V 523	Geometric and Visual Optics II	4.0 cr.
V 543	Systems Approach to Biomedical Sciences II	4.5 cr.
V 551	Clinical Sciences II: Motility & Refraction	3.0 cr.
V 552	Clinical Sciences II: Anterior Segment Exam. Techniques	2.0 cr.
V 560	Vision Science I: Perception	3.5 cr.
	<b>Total</b>	<b>19 cr.</b>

##### Second Year

##### First Semester

V601	Integrative Optometry II	2.0 cr.
V 631	Optics III: Ophthalmic Optics	4.0 cr.
V 642	General Pharmacology	4.0 cr.
V 652	Clinical Sciences III: Accommodation and Binocular Vision	3.0 cr.
V 653	Clinical Sciences III: Posterior Segment Examination Techniques	2.0 cr.
V 655	Optometric Profession II	0.5 cr.
V 665	Vision Science II: Ocular Motility	2.5 cr.
V 678	Ophthalmic Dispensing	2.0 cr.
	<b>Total</b>	<b>20.0 cr.</b>

## Second Semester

V 632	Optics IV: Optics of Ophthalmic and Advanced Clinical Optics	4.0 cr.
V 633	Contact Lenses	3.0 cr.
V 644	Ocular Disease I	3.0 cr.
V 646	Ocular Pharmacology	2.0 cr.
V 654	Clinical Sciences IV	4.0 cr.
V 666	Vision Science III: Binocular Vision	4.0 cr.
	Total	20.0 cr.

## Summer

V 680	Introduction to Clinic	2.5 cr.
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## Third Year

## First Semester

V 701	Grand Rounds I	0.5 cr.
V 745	Ocular Disease II	3.0 cr.
V 748	Physical Assessment and Medicine	3.5 cr.
V 752	Advanced Contact Lens Topics I	2.0 cr.
V 756	Clinical Assessment I	1.0 cr.
V 781	Pediatric Optometry	3.0 cr.
V 786	Optometry Clinic <sup>1</sup>	2.0 cr.
V 787	Optometry Clinic <sup>1</sup>	2.0 cr.
	Total	17.0 cr.

## Second Semester

V 702	Grand Rounds II	0.5 cr.
V 740	Ocular Disease V: Lasers, Injections, and Minor Surgical Procedures	2.0 cr.
V 746	Ocular Disease III: Neuro-Optometry	2.0 cr.
V 749	Ocular Disease IV: Applied Ocular Therapeutics	3.0 cr.
V 751	Low Vision Rehabilitation	3.0 cr.
V 757	Clinical Assessment II	1.0 cr.
V 754	Optometric Profession III: Public Health Policy, Legal, Historical and Ethical Issues	1.0 cr.

V 758	Advanced Clinical Concepts in Binocular Vision and Pediatrics	2.0 cr.
V 759	Business Aspects of Optometry	2.0 cr.
V 788	Optometry Clinic	2.0 cr.
V 789	Optometry Clinic	2.0 cr.
	Total	20.5 cr.

## Fourth Year

V 885	Optometry Clinic (Bloomington)	10.0 cr.
V 887	Extension Clinic (Indianapolis)	10.0 cr.
V 888	External Clinic	10.0 cr.
	Fourth Clinical Assignment (V 885, V 887, Or V 888)	10.0 cr.
	Total	40.0 cr.
	<b>Overall Total</b>	<b>158.0 cr.</b>

Note: Subject to change.

1. Elementary school vision-screening program assignments will be arranged.
2. Students in the final year of the program will spend 12 weeks at each of their four clinic rotations. Students are required to spend at least one rotation at either the Atwater Eye Care Center, V 885 or the Indianapolis Eye Care Center, V 887. The remaining three rotations can be spent at various external locations, V888.

**Bachelor of Science (B.S.) in Optometry Degree**

Students who enter the Doctor of Optometry (O.D.) program without an undergraduate degree will receive the B.S. in Optometry upon successful completion of the first two years of the four-year professional degree program. The following requirements, in addition to the preoptometry requirements and the courses in the first two years of the professional degree program, must be satisfied by the student seeking this degree:

- A minimum of 122 credit hours in courses that may be counted toward the B.A., B.S., or higher degree of one or more degree-granting divisions of the university.
- A minimum cumulative grade point average of 2.5.
- A minimum of 30 credit hours in courses at the 300 level or above.
- At least 30 credit hours of V-lettered courses, which are regularly offered by the School of Optometry and/or the Vision Science Graduate Program.
- A minimum of 60 credit hours at Indiana University, of which at least 26 credit hours, including not fewer than 10 credits in the V-lettered courses, must be completed in residence on the Bloomington campus.
- Courses taken on a Pass/Fail basis can be applied only as electives in meeting the degree requirements. The limit is a total of eight courses with two courses allowed per year.

- Not more than 60 credit hours earned in accredited junior colleges may be applied toward the degree.
- Not more than 10 credit hours earned through online study and/or special credit examination may be applied toward the degree, except by special permission of the dean.
- Work for a degree must be completed within six years from the time the student first registers in the university, except by special permission of the dean.

## Academic Regulations

### Semester Load

A student is not permitted to enroll in fewer than 12 credit hours during a fall or spring semester except with special permission from the Dean.

### Withdrawal from Individual Courses

Students must take the courses listed for the appropriate program semester. Any variation in their program is only with the permission of the Dean. Permission to drop a course will be given only for reasons of serious illness or significant extenuating circumstances. The desire to avoid a low grade is not an acceptable reason for withdrawal from a course. If a student withdraws with the Dean's consent, the grade in the course will be W if the student is passing at the time of withdrawal. If the student is not passing at the time of withdrawal, the grade will be an F. The grade will be recorded on the date of withdrawal. It should also be understood that withdrawal from a course will break the sequencing of courses and result in adding a year to the four year Doctor of Optometry program. When considering withdrawal from a course, a student should first consult with the Director of Student Administration or the Associate Dean of Students; who, in consultation with the faculty member, will take the student's request to the Dean. If permission is granted, the Office of Student Administration will withdraw the student from the course.

### Addition of Courses

No course may be added by students after the first two weeks of a semester or first week of a summer session or half semester unless the instructor of the course petitions that an exception be made and the request is approved by the Dean.

### Grades

The quality of a student's work is indicated by the following grades and numerical values:

A+ (4.00), A (4.00), A- (3.70) High degree of academic performance

B+ (3.30), B (3.00), B- (2.70) Above-average achievement

C+ (2.30), C (2.00), C- (1.70) Average achievement Any grade lower than a C in any course in the professional (O.D.) curriculum including a grade of C- must be repeated.

D+ (1.30), D (1.00), D- (0.70) Passing work but below desired standards

F—Failure in a course or failure to complete a course without an authorized withdrawal. When a failing grade is recorded in an optometry course, the instructor(s) may require specific remedial procedures to be taken by the student before readmission to the course. The FX option is not accepted by the School of Optometry. Retaking and passing a failed course will, therefore, not remove the original grade of F from the student's record.

W—Withdrawn. Given automatically when the student, with the approval of the academic advisor and the Dean,

officially withdraws during the first eight weeks of a semester, first four weeks of a half-semester course, or first two weeks of a summer session. After these deadlines, the grade W is given in the instance of an approved and properly executed withdrawal only if the student is passing at the time of withdrawal.

R—Deferred Grade. Given when the grade determination will be deferred until completion of two or more terms of study, as with research or thesis courses. Also given either at the end of the first term of a two-term course or midway through a single course that overlaps two terms, when the course has been identified as one for a deferred grade in the Schedule of Classes. At the end of the final term in the sequence, the entry or entries R will be replaced with standard letter grades. Instructors will designate the standard grades on the rosters for the final term or by means of a form for removal of deferred grades.

I—Incomplete. May be given only when the work of the course is substantially completed and when the student's work is of passing quality. When an Incomplete is assigned, a record will be maintained in the Office of Student Administration of the School of Optometry. The record will include a statement of the reason for recording the Incomplete and an adequate guide for its removal, with a suggested final grade in the event of the departure or extended absence of the instructor from the campus.

A student must complete work required to have the Incomplete removed within one calendar year from the date of its recording, although the Dean may authorize adjustment of this period in exceptional circumstances. An Incomplete that still stands after one calendar year is replaced by a grade of F.

Once a student has graduated, nothing in these regulations will prohibit the Incomplete from remaining on the record.

A student repeating a course must register for the course a second time. If any course to be repeated is a prerequisite to another course, the other course may not be taken until the prerequisite course is satisfactorily repeated.

### Clinic Grades

Fourth-year rotation grades become official at the time of submission by the rotation preceptor. (Note: Grades for rotations ending mid-semester will be considered official prior to completion of the academic semester and online posting.) Academic standing will be assessed upon receipt of grades from the rotation preceptor at the completion of each fourth-year rotation.

### Absences from Scheduled Classes

Illness is usually the only acceptable excuse for absence from class. Other absences must be explained to the satisfaction of the instructor, who will decide whether omitted work may be made up. The names of students who are excessively absent are to be reported by their instructors to the Dean.

### Absences from Final Examinations

A student who fails to attend the final examination of a course and who has a passing grade up to that time may be given a grade of Incomplete if the absence is explained to the instructor's satisfaction. A missed final examination for which there is no satisfactory excuse will be assigned

a grade of F. When called upon, the Academic Review Committee of the School of Optometry will assist an instructor in weighing an excuse concerning absence from a final examination.

## Academic Standing

The intent of the School of Optometry is that professional students be able to graduate after four years of instruction. In some cases, up to six years can be considered. Although primary responsibility rests with the student, the school will work to help all students maintain good academic standing and will seek out and attempt to provide remedial help for students who are having academic difficulties.

### Good Academic Standing

The minimum standard for academic good standing is a semester and cumulative grade point average (GPA) of 2.50.

### Probation

Academic probation results when any course grade is below a C, or if the semester or cumulative grade point average is below a 2.5. Continuation in the program requires approval by the Academic Review Committee.

### Course Repeat

A course grade of C- or below is considered to be unacceptable and the course must be repeated. If a student does receive an unacceptable grade requiring that the course be repeated the following year, the student must restart that semester the following year and repeat all courses for that semester in which a grade of C+ or below was received.

### Academic Review

Students on probation will be evaluated by the Academic Review Committee to determine whether they can continue in the program. In many cases, the Academic Review Committee will make recommendations about help and remedial work that will make it possible for the student to achieve better academic performance. In some cases probation could result in dismissal.

### Clinical Competence

At the end of the second year, students are required to pass a competency examination in preparation for the course V 680 Introduction to Clinic. A student who fails the competency examination must complete remediation and take the examination again. If the student fails any part of the competency twice, the student will not receive a passing grade for the course, will not be permitted to enter clinic and must repeat V 654. A student who does not ultimately pass the competency exam will be ineligible to continue.

### Remediation

If a student receives a grade of less than a C in any third- or fourth-year clinic rotation, the student must enroll in and complete with a grade of C or better V 780 Clinical Skills Enhancement (third-year clinic remediation) or V 880 Clinical Skills Enhancement (fourth-year clinic remediation) prior to continuation of the third- or fourth-year clinic rotation.

A student who fails to complete V 780 or V 880 with a grade of C or better will be ineligible to continue.

If an intern is unable to continue with a clinical rotation for academic, clinical performance reasons and/or professional misconduct, the grade of F will be assigned, and the intern will be ineligible to continue.

Policies and procedures are explained in detail in the most recent [Indiana University School of Optometry Eye Care Centers Student Orientation Manual](#) (password required).

In addition to possible dismissal following Academic Review, dismissal can occur if:

- the student earns lower than a 1.00 GPA for any semester, regardless of cumulative GPA
- the student earns both lower than a 2.50 GPA in a semester and a recommendation by the Academic Review Committee
- the student has failed to complete V780 or V880 with a grade of C or higher
- the student has failed the clinical competency examination two times and recommendation by the Academic Review Committee.
- the student fails a clinical course after remediation; clinical courses are V 680, V 786, V 787, V 788, V 789, V 885, V 887, V 888
- the student has received a grade of F for a rotation during the fourth year

### Academic Misconduct

Academic integrity is fundamental to the intellectual life of the university and to the education of each student. The following acts of academic dishonesty are prohibited: cheating, fabrication, plagiarism, interference, and facilitating academic dishonesty. Proven academic misconduct is grounds for dismissal.

### Honor Code

In 2013 the IUSO faculty and students adopted an [Honor Code](#). Annually, during incoming student Orientation, students will review and receive instruction on applying and adhering to the [Honor Code](#).

### Professional Misconduct

Maintaining standards of professional conduct is essential to the integrity of the profession. Professional misconduct is strictly prohibited. This includes dishonest conduct (including, but not limited to, false accusation of misconduct; forgery; alteration or misuse of any university document, record, or identification; and giving to a university official any information known to be false) and use or possession of alcoholic beverages or illegal drugs on university property or during a university activity.

In addition, fraud and patient endangerment and abandonment will be grounds for dismissal. Standards for patient care procedures and for professional behavior in a clinical setting are detailed in the most recent Indiana University School of Optometry Eye Care Centers Student Orientation Manual.

Additional rules and regulations of the university are available in the [Code of Student Rights, Responsibilities, and Conduct](#) published by Indiana University. It is each student's responsibility to be aware of these regulations. Violation of the Code of Student Rights, Responsibilities, and Conduct may result in dismissal.

### Academic Fairness Committee

The charge of the committee is to consider, arbitrate, and adjudicate grading disputes in cases of procedural errors and in cases where evaluation on nonacademic grounds is alleged.

The Academic Fairness Committee is composed of three students and three faculty members, chosen by the dean of the School of Optometry.

Issues dealing with substantive quality of the student's academic performance and involving intrinsic, professional, academic judgments by a faculty member lie outside the Committee's jurisdiction.

## Courses

**OPT-V 501 Integrative Optometry (2 cr.)** This course sequence is offered over two semesters. Overall goal is to provide an integrated perspective of optometry in the paradigm of problem-based learning (PBL) and an introduction to inter-professional education. The problems will be clinical cases which relate to the contents of courses taught contemporaneously in optics, biomedical, and ocular biology modules. Students will meet in small groups to discuss the problems guided by a faculty facilitator.

**OPT-V 521 Optics I: Geometric and Visual Optics (4 cr.)** P: Physics P 202 or permission of instructor. Fundamentals of geometric, physical and visual optics. Optical analysis of myopia, hyperopia, and astigmatism. Components of the eyes and their optical properties. Clinical instrumentation for optical measurement and diagnosis of eyes.

**OPT-V 523 Optics II: Geometric and Visual Optics (4 cr.)** P: V 521 or permission of instructor. Continuation of application of the principles of geometrical, physical and visual optics to the optical description and correction of the eye. Schematic optical models of the eye. Measurement of light. Higher-order aberrations and their impact on vision.

**OPT-V 540 Ocular Biology I (4 cr.)** Head and neck neuroanatomy related to the normal functioning of the eye and visual system. Detailed anatomy/histology and physiology of the eye and adnexa. Maintenance of optical transparency, intraocular pressure and phototransduction.

**OPT-V 542 Systems Approach to Biomedical Sciences I (SABS-I) (5.5 cr.)** This is the first of a two-semester sequence which presents basic science information organized into specific organ systems. The course will cover common processes: basic biochemistry, cell and molecular biology, fundamentals of physiology, immunology/infection, and oncology. The organ systems are organized to discuss the structure, function, and pathology for each organ system, including nervous system, musculoskeletal system and skin.

**OPT-V 543 Systems Approach to Biomedical Sciences II (4.5 cr.)** P: V 542. Continuation of SABS-I.

**OPT-V 550 Clinical Sciences I (3 cr.)** Introduction to clinical history and interview techniques, health history content, and medical record documentation as applied to the optometric setting; optometric and medical terminology, interview techniques for special populations, legal aspects of medical records, differential diagnosis of

visual symptoms, introduction to physical assessment, slit lamp biomicroscopy and ophthalmoscopy.

**OPT-V 551 Clinical Sciences I: Motility and Refraction (3 cr.)** P: V 550 Vision examination techniques and theory. Application of vision testing instrumentation with emphasis on preliminary test, motility and refractive tests. The study of the principles involved in the measurement, epidemiology, and treatment of ametropia, oculomotor imbalances, and associated conditions.

**OPT-V 552 Clinical Sciences II: Anterior Segment Examination Techniques (2 cr.)** P: V 550 Introduction to techniques used to examine and evaluate the health of the anterior segment of the eye, including use of the slit lamp biomicroscope, clinical measurement of intra-ocular pressure, foreign body evaluation and removal. Other techniques will be introduced as appropriate.

**OPT-V 554 Optometric Profession I (0.5 cr.)** This is the first of a three-semester sequence which presents the optometric profession through the history of the profession, the fundamentals and principles of public health and optometry's role in the healthcare community, professionalism and ethics, cultural competency, current issues and professional affairs, licensure and scope of practice, and professional development. The course will be presented in seminar format.

**OPT-V 560 Vision Science I (Perception) (3.5 cr.)** Provides an understanding of how visual performance is determined by the underlying biology of the eye and the brain. Topics include visual pathway, neuroanatomy and physiology, with special emphasis on the roles of receptive and neural sampling.

**OPT-V 569 Selected Studies (elective, cr. arr. cr.)** Items of current scientific interest. Consideration given to students' special interests. May include writing of abstracts and reviews of current vision science literature. May be repeated for credit with permission of instructor.

**OPT-V 574 Introduction to Epidemiology & Optometric Research (2 cr.)** Introduction to epidemiology and biostatistics, principles of epidemiological inquiry and research design, and the application of statistical methods to clinical data.

**OPT-V 601 Integrative Optometry (2 cr.)** This course sequence is offered over two semesters. Overall goal is to provide an integrated perspective of optometry in the paradigm of problem-based learning (PBL), including a second-level IPE exposure. The problems will be clinical cases which relate to the contents of courses taught contemporaneously in optics, biomedical, and ocular biology modules. Students will meet in small groups to discuss the problems guided by a faculty facilitator.

**OPT-V 631 Optics III: Ophthalmic Optics (4 cr.)** P: V 523 or permission of instructor. Design and application of ophthalmic spectacles and materials.

**OPT-V 632 Optics IV: Ophthalmic and Advanced Clinical Optics (4 cr.)** P: V 631 or permission of instructor. Continuation of design and application of ophthalmic spectacles and materials. Optics of low vision and contact lenses; optics of objective refraction and fundus imaging; optics of diseased eyes and wavefront-based treatments.



**OPT-V 633 Contact Lenses (3 cr.)** P: V 652 and V 653. Theory and practice of contact lenses. General principles of lens materials, design, and care; examination, selection, and fitting; diagnosis and treatment of lens wear problems; introduction to specialty fitting. Practical laboratory on lens handling, modification, and fitting.

**OPT-V 642 General Pharmacology (4 cr.)** P: V 543.

Basic principles of pharmacology. Mechanisms of action and side effects of: anti-inflammatory, autonomic, cardiovascular, autacoid, respiratory, CNS, anti-diabetic, chemotherapeutic, immune system, and GI drugs.

**OPT-V 644 Ocular Disease I: Anterior Segment (3 cr.)**

P: V 543. A detailed description of the signs, symptoms, differential diagnosis, and management of ocular disease of the anterior segment.

**OPT-V 646 Ocular Pharmacology (2 cr.)** P: V 642.

This course includes a detailed description of the mechanisms, clinical applications, side effects and contraindications of ocular pharmacological agents used in the diagnosis and treatment of ocular disease. Ocular effects of systemic medications are covered.

**OPT-V 652 Clinical Sciences III: Accommodation and Binocular Vision (3 cr.)** P: V 551 and V 552.

Vision examination techniques, theory and application of vision testing instrumentation, with emphasis on accommodation and binocular vision; accommodation and vergence test findings as they relate to normal function, subjective symptoms, and performance; theory and case analysis of non-strabismic binocular vision problems.

**OPT-V 653 Clinical Sciences III: Posterior Segment Examination Techniques (2 cr.)** P: V 551 and V 552.

Introduction to techniques used to examine and evaluate the health of the posterior segment of the eye, including direct ophthalmoscopy, monocular and binocular indirect ophthalmoscopy, fundus biomicroscopy, gonioscopy, and posterior pole imaging techniques. Other techniques will be introduced as appropriate.

**OPT-V 654 Clinical Sciences IV: Clinical Analysis and Communication (4 cr.)** P: V 652 and V 653.

Advanced clinical analysis, procedures, and protocols for examinations of patients in the clinical setting, and comprehensive eye and vision examinations with scheduled patients; patient assessment and plan, patient communication; introduction to clinical ocular disease and protocols.

**OPT-V 655 Optometric Profession II (.05 cr.)**

This is the second of a three-semester sequence which presents the optometric profession through the history of the profession, the fundamentals and principles of public health, and optometry's role in the healthcare community, professionalism and ethics, cultural competency, current issues and professional affairs, licensure and scope of practice, and professional development. The course will be presented in seminar format.

**OPT-V 665 Vision Science II: Ocular Motility (2.5 cr.)**

Characteristics, control, and deficits of the five somatic eye-movement systems (convergence, saccadic version, pursuit version, fixation maintenance, vestibular reflex) and the autonomic systems subserving accommodation and pupillary diameter and reflexes.

**OPT-V 666 Vision Science III Binocular Vision (4 cr.)**

P: V 560, V 652 & V 665. This course is intended to prepare the student to manage the common binocular vision anomalies encountered in primary care optometry. The course will examine the anatomical, physiological, psychophysical, and oculomotor characteristics of normal binocularity in humans. The course will then present diagnosis and management strategies for both non-strabismic and strabismic patients.

**OPT-V 678 Ophthalmic Dispensing Clinic (2 cr.)** Clinical

experience in appropriate frame and lens selection, facial measurement for eye wear fitting, verification of finished prescription accuracy and spectacle alignment, adjusting and dispensing of eye wear for comfort and optical accuracy, and repair of eyewear.

**OPT-V 680 Introduction to Clinic (Summer Clinic)**

**(2.5 cr.)** P: Students must be in good academic standing, have completed all lecture and laboratory courses with a passing grade through the second professional year of study, and have passed the V 654 competency examination.

Introduction to clinical practice in visual analysis, optometric procedures, case conference; discussion and patient care for three 40-hour weeks during the summer, or the equivalent by arrangement.

**OPT-V 701 Grand Rounds I (0.5 cr.)** Presentation of cases.

**OPT-V 702 Grand Rounds II (0.5 cr.)** Presentation of cases.

**OPT-V 740 Ocular Disease V: Lasers, Injections, and Minor Surgical Procedures (2 cr.)** P: V 746 and V 788

C: V 749

Learn advanced anterior segment procedures and treatment modalities, including laser procedures, injection techniques, minor surgical procedures, and wound closure techniques. Students will also learn aseptic technique, how to manage office emergencies, and other topics as appropriate.

**OPT-V 745 Ocular Disease II: Posterior Segment (3 cr.)**

P: V 644. A detailed description of the signs, symptoms, differential diagnosis, and management of ocular disease of the posterior segment; neurological diseases affecting the eye; and application of ocular therapeutics.

**OPT-V 746 Ocular Disease III (Neuro-Optometry) (2 cr.)**

P: V 745. A detailed discussion of the signs, symptoms, differential diagnosis, and management of neurological diseases affecting the eye.

**OPT-V 748 Principles and Methods of Physical Assessment and Medicine (3.5 cr.)** P: V 680.

Physical examination with emphasis on HEENT and neurological screening, and their relationship to ocular health conditions and medical management; clinical chemistry and interpretation of clinical laboratory tests; criteria for referral to other providers, and emergency office procedures.

**OPT-V 749 Ocular Disease IV (Applied Ocular Therapeutics) (3 cr.)** P: V 745.

The use, in clinical optometric practice, of legend drugs, lasers, and other

therapeutic devices in the treatment and management of ocular disease.

**OPT-V 751 Low Vision Rehabilitation (3 cr.)** P: V 652 and V 654. Special examination procedures and patient management techniques for the visually impaired. Evaluations and prescriptions of optical, nonoptical, and electronic devices. Overview of rehabilitative services.

**OPT-V 752 Advanced Contact Lens Topics I (2 cr.)** P: V 633 Applications of contact lenses. This course covers the fitting and care of patients requiring specialty contact lenses and more difficult cases including, but not limited to, correcting astigmatism, tinted and cosmetic lenses, fitting the presbyopic patient, fitting infants and children, fitting keratoconic patients, fitting postsurgical and other distorted corneas; haptic lenses, cosmetic shells, and prosthetic eyes.

**OPT-V 754 Optometric Profession III (Public Health Policy, Legal, Historical and Ethical Issues) (1 cr.)** Introduction to the fundamentals and principles of public health; an overview of public and community health problems, planning and care, with special attention to optometric and other visual aspects of variously identified segments of the community. Includes considerations of quality, efficiency, economics, and regulation of vision and health care delivery and utilization.

**OPT-V 756 Clinical Assessment I (1 cr.)** P: V 680. C: V 745. Introduction to clinical reasoning and formulation of differential diagnostic protocols for investigation of various visual problems.

**OPT-V 758 Advanced Clinical Concepts in Binocular Vision and Pediatrics (2 cr.)** P: V 666, V 680, V 781. The goal of this course is to provide the students with advanced knowledge in the areas of binocular vision and pediatrics. Topics covered will include clinical cases involving amblyopia, strabismus, infants, and vision therapy among others. Classes will be a mixture of case presentations and lecture. Students will have an enhanced understanding of how to diagnose and treat patients with these disorders upon completion of the course.

**OPT-V 757 Clinical Assessment II (1 cr.)** P: V 756. A continuation in the clinical reasoning and formulation of differential diagnostic protocols for investigation of various visual problems.

**OPT-V 759 Business Aspects of Optometry (2 cr.)** The business of optometric practices and related career opportunities within optometry.

**OPT-V 780 Clinical Skills Enhancement-3rd (2-2.5 cr.)** Increased supervision provided by clinical faculty for students having difficulty in areas of clinical performance.

**OPT-V 781 Pediatric Optometry (3 cr.)** P: V 666 and V680. Specialized diagnosis and management strategies for the infant and child. Topics to include refractive and binocular vision anomalies, disease, pharmacology and an Optometrist's role in assessment and management of visual perception, learning disabilities and reading problems. Communication with parents, educators and other professionals.

**OPT-V 782 Preservation of Clinical Skills (3-5 cr.)** P: V 680, V 786, V 787, V 788, and V 789

Supervision by Clinical Faculty on the clinic floor for students who did not receive a passing grade in a third year didactic course. Allows students to maintain clinical knowledge while they are completing third year coursework.

**OPT-V 786 Optometry Clinic (2 cr.)** P: V 680 with a minimum grade of C. Clinical practice in visual analysis, patient care, and optometric procedures. Case discussion and student evaluation on a daily basis. Patient care includes assisting patients with selection of suitable eye wear.

**OPT-V 787 Optometry Clinic (2 cr.)** P: V 786 with a minimum grade of C. A continuation of V 786. Clinical practice in visual analysis, patient care, and optometric procedures. Case discussion and student evaluation on a daily basis. Patient care includes assisting patients with selection of suitable eye wear.

**OPT-V 788 Optometry Clinic (2 cr.)** P: V 787 with a minimum grade of C. Clinical practice in visual analysis, patient care, and optometric procedures. Case discussion and student evaluation on a daily basis, case presentation by student interns. Patient care includes assisting patients with selection of suitable eye wear.

**OPT-V 789 Optometry Clinic (2 cr.)** P: V 788 with a minimum grade of C. Continuation of V 788. Clinical practice in visual analysis, patient care, and optometric procedures. Case discussion and student evaluation on a daily basis, case presentation by student interns. Patient care includes assisting patients with selection of suitable eye wear.

**OPT-V 880 Clinical Skills Enhancement-4th year (5-10 cr.)** Increased supervision provided by clinical faculty for students having difficulty in areas of clinical performance.

**OPT-V 884 Optometry Clinic-Arranged (5 cr.)** P: P: V 680, V 786, V 787, V 788, and V 789, as well as successful completion of all lecture and laboratory courses through the third professional year of study. Advanced clinical optometric training with emphasis on optometric specialties such as contact lens care, ocular disease diagnosis/management, binocular vision analysis/therapy, and pediatrics.

**OPT-V 885 Optometry Clinic (10 cr.)** P: V 680, V 786, V 787, V 788, and V 789, as well as completion of all lecture and laboratory courses through the third professional year of study. Advanced clinical optometric training with emphasis on optometric specialties such as contact lens care, ocular disease diagnosis/ management, binocular vision analysis/ therapy, and pediatrics.

**OPT-V 887 Extension Clinic (10 cr.)** P: V 680, V 786, V 787, V 788, and V 789, as well as completion of all lecture and laboratory courses through the third professional year of study. An intensive, hands-on patient care experience at a large urban optometry clinic in Indianapolis. Includes experience in primary care as well as specialty services.

**OPT-V 888 External Clinic (10 cr.)** P: V 680, V 786, V 787, V 788, and V 789, as well as completion of all lecture and laboratory courses through the third professional year of study. An intensive, hands-on patient care experience at an affiliated external clinical site such as a military

hospital, Veterans Administration medical facility, or referral eye center.

## Residencies

After completing the Doctor of Optometry Program graduates may wish to further their clinical expertise by completing a residency in a specialty area. Residencies allow graduates to focus and expand their knowledge in a specific area of Optometry. Residency programs offer the opportunity to treat many challenging cases with guidance from top clinicians who are experts in the field.

Residencies provide the graduate with a level of expertise that expands their career opportunities. These opportunities may include interdisciplinary practices, clinical and hospital settings, as well as teaching opportunities in schools and colleges of optometry.

The Indiana University School of Optometry offers residencies in the areas of Cornea and Contact Lenses, Ocular Disease, Binocular Vision/Pediatrics, and Primary Care. The School also offers affiliated residencies in Primary Care and Ocular Disease located in Illinois, Indiana, Iowa, Kentucky, and West Virginia.

Indiana University directs all residencies through the office of Don W. Lyon, O.D. M.S., F.A.A.O., Director of Residencies, School of Optometry, Indiana University, 744 E. Third St., Bloomington, IN 47405-3680; (812) 856-1964. For information or applications, please contact the individual program coordinator or the office of the director of residencies. Information can also be found on the IU School of Optometry [Residency web page](#). To apply to any of the Indiana University School of Optometry residencies or affiliated residencies, please use the [Optometry Residency Match, ORMATCH](#).

### IU School of Optometry Residencies Cornea and Contact Lenses

Indiana University School of Optometry  
800 E. Atwater Avenue Bloomington, IN 47405-3680  
(812) 856-5699  
Program Coordinator: Susan Kovacich, O.D.,  
[skovach@indiana.edu](mailto:skovach@indiana.edu)  
Positions Available: 1

### Ocular Disease

Indiana University School of Optometry  
800 E. Atwater Avenue Bloomington, IN 47405-3680  
(812) 855-1574  
Program Coordinator: Brett King, O.D., F.A.A.O.,  
[kingbrj@indiana.edu](mailto:kingbrj@indiana.edu)  
Positions Available: 1

### Pediatric Optometry

Indiana University School of Optometry  
800 E. Atwater Avenue Bloomington, IN 47405-3680  
(812) 856-0976  
Program Coordinator: Katie S. Connolly, O.D.,  
[ksconnol@indiana.edu](mailto:ksconnol@indiana.edu)  
Positions Available: 1

### Primary Eye Care

Indiana University School of Optometry  
800 E. Atwater Avenue Bloomington, IN 47405-3680  
(812) 855-4387  
Program Coordinator: Patricia Henderson, O.D.,  
[henderso@indiana.edu](mailto:henderso@indiana.edu)

Positions Available: 1

Indiana University School of Optometry  
Indianapolis Eye Care Center  
501 Indiana Ave, Ste 100  
Indianapolis, IN 46204  
(317) 321-1470  
Program Coordinator:  
Anna Bedwell, O.D., [abedwell@indiana.edu](mailto:abedwell@indiana.edu)  
Positions Available: 1

### Indiana University School of Optometry Affiliated Residencies

#### Ocular Disease

Bennett & Bloom Eye Centers  
1935 Bluegrass Ave.  
Suite 200  
Louisville, KY 40215  
(502) 895-0040  
Program Coordinator: Lee Peplinski, O.D.,  
[leepeplinski@gmail.com](mailto:leepeplinski@gmail.com)  
Positions Available: 1

Gundersen Eye Department  
1830 St. Hwy 9  
Decorah, IA 52101  
(863) 382-2639 x 75633  
Program Coordinator: Jennifer Gipp, O.D.,  
[JEGipp@gundersenhealth.org](mailto:JEGipp@gundersenhealth.org)  
Positions Available: 1

Huntington VA Medical Center  
Optometry Service (123)  
1540 Spring Valley Drive  
Huntington, WV 25704  
(304) 429-6755 x 2696  
Program Coordinator: David Johnson, O.D.,  
[david.johnson3@va.gov](mailto:david.johnson3@va.gov)  
Positions Available: 4

John Kenyon American Eye Institute  
519 State Street  
New Albany, IN 47150  
(812) 258-3007  
Program Coordinator: Steve Wilson, O.D.,  
[swilson@johnkenyon.com](mailto:swilson@johnkenyon.com)  
Positions Available: 1

Lexington VA Medical Center  
12250 Leestown Rd.  
Lexington, KY 40511  
(859)233-4511  
Program Coordinator: Ashley Rone, O.D.,  
[ashley.rone@va.gov](mailto:ashley.rone@va.gov)  
Positions Available: 4

University of Kentucky Medical Center  
Department of Ophthalmology  
E 309 Kentucky Clinic  
740 S. Limestone Drive  
Lexington, KY 40536-0284  
(859) 323-5867 x 259  
Program Coordinator: Kristen Piery, O.D.,  
[kristen.piery@uky.edu](mailto:kristen.piery@uky.edu)  
Positions Available: 1

University of Virginia Ophthalmology  
2nd Floor Old Medical School Building  
1300 Jefferson Park Ave

Charlottesville, VA 22908-0715  
 (434) 924-5485  
 Coordinator: Evan Kaufman, O.D.,  
[ek2cz@hscmail.mcc.virginia.edu](mailto:ek2cz@hscmail.mcc.virginia.edu)  
 Positions Available: 1

### Primary Eye Care

Illiana Health Care System  
 1900 E. Main Street  
 Danville, IL 61832  
 (217) 554-4587  
 Program Coordinator: Mejia Guadalupe, O.D.,  
[guadalupe.mejia@va.gov](mailto:guadalupe.mejia@va.gov)  
 Positions Available: 1

OSSIP Optometry PC  
 5455 Harrison Park Lane  
 Indianapolis, IN 46216  
 (317) 867-0555  
 Program Coordinator: Natalie Corey, O.D.,  
[ncorey@ossip.com](mailto:ncorey@ossip.com)  
 Positions Available: 1

**For the most up-to-date information, please visit the [IUSO Residency homepage](#).**

## Honors & Awards

Indiana University Doctor of Optometry (OD) students are eligible for a number of awards and honors, including cash, plaques, equipment, expense-paid trips, and other visible rewards of excellent. A number of the awards require a specific application, while other awards are made without students knowing they were being considered. Several other awards are decided solely by the Awards & Honors Committee, are selected by consensus of clinical faculty, or are chosen by a vote of instructors, staff and peers. Additional awards are the result of nationwide competitions.

It is important to note that some awards, especially those offered by ophthalmic companies, might vary from year to year. Students must submit an appropriate paper for consideration, have achieved overall academic excellence, have exhibited a particular clinical proficiency, or have financial need.

The Office of Student Administration works closely with the Awards & Honors Committee to inform students (typically by email) of opportunities, deadlines, and details of the various awards. Please direct any questions to the Office of Student Administration in OP 231 by phone at 812-855-1917 or at [iubopt@indiana.edu](mailto:iubopt@indiana.edu).

To view a full list of awards that have been offered in the past, please download the [pdf document](#).

## Financial Aid

To apply for federal financial assistance, students need to file the Free Application for Federal Student Aid (FAFSA) between January 1 and March 1 each year. They may also file after March 1, but may not be considered for all the aid possible, depending on funding. Students may file the FAFSA at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

To be eligible for federal financial aid, a student must:

- be a U.S. citizen or eligible noncitizen
- have a valid social security number
- register with the Selective Service, if required

- not be in default or owe an overpayment on previous federal aid
- be admitted to an IU degree program
- make satisfactory academic progress

More information on eligibility requirements, the application process, and specific financial aid programs can be found at [studentcentral.indiana.edu](http://studentcentral.indiana.edu).

### Borrowing

Financing an optometric education can be a long-term investment if a student needs to borrow money. Students must understand the implications of receiving student loans, such as the obligation to repay them with interest once they obtain their degrees. There are several student loan programs available to doctoral optometric students:

- Federal Stafford Loan
- Federal Perkins Loan
- Federal Health Professions Loan (students must provide parent data on the FAFSA to be considered for this loan)
- Federal PLUS Loan for graduate students

There are other sources for loans (along with state and association assistance programs) that students can fully research to obtain funding. Information can be obtained from the American Optometric Association as well as from local and state optometric associations.

### Other Programs

Other federal aid programs include Federal Veterans Benefits and Military Health Professions scholarships. In addition, other options include:

- Teaching Assistantships
- Educational Opportunity Fellowships

Other scholarships and awards through the School of Optometry are listed in the "Student Honors and Awards" section in this bulletin. Applications and information about these programs can be obtained from the Office of Student Administration. A free search for other scholarships, not from the school, is available on line at [www.fastweb.com](http://www.fastweb.com).

### Financial Aid Contact

Please contact the School of Optometry's Associate Director of Financial Aid with questions or concerns at School of Optometry, 800 E. Atwater Avenue, Indiana University, Bloomington, Indiana 47405-3680; email [jmingri@indiana.edu](mailto:jmingri@indiana.edu) for in-person or telephone appointments, which can be scheduled by calling the Office of Student Administration at (812) 855-1917. Information regarding other sources of financial aid is available on the School of Optometry's [Financial Aid web page](#).

## Graduate Program in Vision Science (MS, PhD)

Vision scientists study the eye and how we see as well as both the pathogenesis of visual dysfunction and the amelioration of visual disabilities. Vision science is multidisciplinary, and can include the study of biochemistry, biophysics, engineering, epidemiology, molecular biology, cell biology, neuroscience, optics, ophthalmology, optometry, pathology, physiology,

psychology, statistics, and any other discipline that relates to the eye and its problems. Both the M.S. and Ph.D. degrees provide breadth through a variety of course offerings. The thesis based M.S. and Ph.D. degrees also add depth to the training of vision scientists through original research leading to a thesis or a dissertation.

## Admission

All applications must be made through the [University Graduate School](#). The requirements for admission are flexible in order to accommodate students who come to vision science from a variety of backgrounds. A bachelor's degree (or equivalent) is required. Course work with appropriate laboratories in at least some of the following areas are strongly recommended: optics, computing and engineering, physics, cell & molecular biology, mathematics through differential and integral calculus, statistics, and psychology of sensation and perception.

## Degree Requirements

### Non-thesis Master of Science Degree

Because Vision Science is a multidisciplinary field, students must demonstrate breadth of knowledge in vision science.

Each semester, students are required to register for and participate in the weekly vision science seminar (V765) known as "Oxyopia." Participation implies that the seminar will be taken for credit and that the student will make a presentation. Students registered for G901 are still expected to participate in the seminar unless they have made prior arrangements with the Associate Dean for Graduate Programs. Students must complete ethics training, usually fulfilled by completion of V792

### Admission Requirements

The typical candidate for this program would be a practitioner who has an undergraduate degree in optometry or its equivalent and licensed or license eligible to practice optometry in their home country. GRE results will be required and in addition all non-native English speakers entering the program must have taken the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) within the last 5 years. Non-typical candidates can also be considered for admission. However, they should first correspond with the Associate Dean of Graduate Programs before applying.

### Curriculum

A total of 40 credit hours are required. Most of the courses will be based on the didactic courses in the School of Optometry's Doctorate of Optometry curriculum. Core courses will provide a breadth of background and also provide training in teaching methods, epidemiology, research design and writing and will be required to attend weekly research seminars. These core courses will add up to 15 credit hours. Electives totaling 25 credit hours will concentrate on one or two specialty areas in Optometry. Prior to registration for courses in the first semester the student will meet with the Associate Dean for Graduate Programs or with Program Director to identify specialty areas, and to obtain advice on electives.

## Thesis-based Master of Science Degree Course Requirements

A total of 30 credit hours is required, of which 15 credit hours must be didactic hours in vision science or approved substitutes. Students holding the O.D. degree or concurrently enrolled in the O.D. and MS program, may accelerate progress by receiving up to 4 graduate credit hours completed in the optometry curriculum. Students must complete courses that satisfy a knowledge base in statistics, research design and vision science.

### Research Requirements

Early in the program, students participate in a research project under the direction of a faculty advisor. The advisor is chosen by the student after consultation with the director of the graduate program. Research toward the thesis is guided by the advisor and a committee. After completion of the thesis, at least three members of the graduate faculty give it final approval.

## Doctor of Philosophy Degree Course Requirements

A total of 90 credit hours is required, of which 30 must come from didactic courses with grades of C or higher. Students holding the O.D. degree or enrolled in the O.D. program, may apply up to 6 credit hours to this requirement of 30 didactic credit hours. When the grade point average of a student falls below 3.0, the student will be placed on academic probation and to remain in the program, must show substantial progress in the following semester.

Each semester, students are required to register for and participate in the weekly Vision Science Seminar (V 765) known as "Oxyopia." and the accompanying discussion period. Participation implies that the seminar will be taken for credit. Students in research programs (thesis based MS and Ph.D.) are expected to be able to make presentations on their research. For MS students, one such presentation prior to graduation is required. For Ph.D. students, a yearly presentation in all years other than their first and final year is expected, with exceptions requiring specific approval of the course director and the Associate Dean of Graduate Programs.

During the first year, students will be required to take a two course sequence, either Geometric and Visual Optics (V521) or Systems Approach to Biomedical Science (V542). During the second semester, students will take Vision Science 1 (V560) and either V523 or V543 as well as a special topic seminar (V768) or a course fulfilling part of their minor requirements. Students believing they have met these requirements may apply to the Associate Dean for Graduate Programs with an alternative program.

### Minor Requirements

Students will select at least one minor subject in any relevant field of study, subject to approval by their advisory committee.

The requirements for the minor are determined by the department or program offering the minor. A specialized inter-departmental minor is also possible, if approved by the University Graduate School. Didactic credits applied to the minor can also be counted towards the 30 hour didactic requirement for the program.

### Vision Science Ph.D. Degree Requirements

In order to ensure adequate progress toward the Ph.D. degree, all students must achieve the following milestones at the end of years 1, 2, and 3 of the program.

#### Advancement to Second-Year Exam

At the end of the first year in the program each student must have selected a topic for specialization and made substantial progress on their didactic requirements for the Ph.D. qualifying exam. By this time, students should also have demonstrated an appropriate command of spoken and written English. For students who do not come from an English speaking background, this command must be demonstrated by passing the TEPAIC test.

#### Advancement to Third Year

By the end of the second year all students should have identified the specific experiments that will eventually constitute their Ph.D. thesis. Passing the qualifying examinations will constitute successful achievement of this requirement. If the student has not advanced to candidacy then this requirement will be met by submitting a formal abstract describing the proposed experiments to the Graduate Programs Academic Advisor.

This abstract must be accompanied by written approval of the Ph.D. advisor.

#### Advancement to Candidacy

By the end of the third year, each student must complete a written and oral qualifying examination. These examinations are administered by the student's advisory committee. The written component is the dissertation proposal, and can be in the form of a grant application. The requirement of 30 credit hours of didactic course work must be fulfilled before the qualifying examination. After successful completion of the qualifying exam, each student will be advanced to candidacy for the Ph.D. degree. Participation in the Ph.D. program will be terminated if a student fails the qualifying examination twice.

The final milestone is completion of the dissertation.

#### Completion of Dissertation

After completion of the written dissertation, it is presented and defended at a scheduled seminar meeting. The dissertation must be approved by the student's research committee. The student is responsible for submitting the final approved dissertation to the University Graduate School.

#### IU University Graduate School

The University Graduate School (UGS) provides a guide to the preparation of theses and dissertations and maintains links to electronic forms required for submitting the necessary documentation.

#### Teaching

All doctoral students are required to participate in teaching, usually in the second or third year of their program.

#### Ph.D. Minor in Vision Science

OPT-V 540, OPT-V 560, VSCI-V 705, VSCI-V 707, VSCI-V 717, VSCI-V 723, VSCI-V 725, VSCI-V 754, VSCI-V 783, and VSCI-V 791, or with substitutions by prior approval of the Academic Advisor.

## Courses

**VSCI-V 501 Anatomy and Physiology of the Eye (4 cr.)**  
An introduction to the eye.

**VSCI-V 550 The Miracle of Sight (3 cr.)**  
Introduction to all of the key features of vision, from optics, to anatomy, neurophysiology and psychology. Vision is arguable the greatest achievement of evolution, and this course is designed to provide an overview of the full process we call vision and to identify the key requirements at the human visual system.

**VSCI-V 595 First-Year Research (1-5 cr.)**

**VSCI-V 695 Second-Year Research (1-5 cr.)**

**VSCI-V 700 Introduction to Vision Science I (4 cr.)**  
The first of a two-semester sequence of courses that provides a comprehensive introduction to vision science. The course is designed for graduate students enrolled in Vision Science, but is also suitable for students from other disciplines who are interested in the eye and vision.

**VSCI-V 701 Introduction to Vision Science II (4 cr.)**  
The second of a two-semester sequence of courses on vision science. V 700 and this course constitute a breadth requirement for Ph.D. students in Vision Science.

**VSCI-V 705 Ocular Surface Biology (4 cr.)** Basic biology and physiology of the ocular surface, including the cornea, conjunctiva, and tear film.

**VSCI-V 707 Retinal Imaging (2-3 cr.)** The fundamental methods used in imaging the human retina will be examined, including types of illumination and delivery methods, optical techniques for detection, interaction of light and tissues, systems integration, and selection of imaging modalities based on scientific goals.

**VSCI-V 717 Visual Development in Infancy and Early Childhood (3 cr.)**

An introduction to structural and functional development of the human visual system; to functional development of the human visual system; and an introduction to and the methodology used to study visual development.

**VSCI-V 723 The Eye as an Optical Instrument (4 cr.)**  
P: OPT-V 663 or equivalent.

**VSCI-V 725 Introduction to Retinal Disease Research (2-3 cr.)** P: Permission of the Instructor

The most common retinal diseases are studied based on peer reviewed literature and book chapters, integrating common mechanisms such as vascular disease, neural degeneration and hereditary factors. The third credit can be earned by preparing a project by prior arrangement with the course director.

**VSCI-V 765 Vision Sciences Seminar (1 cr.)** Students in the Ph.D. program in Vision Science are required to take this seminar and make a presentation annually.

**VSCI-V 768 Special Topics in Vision Science (1-4 cr.)**

Covers topics that are not offered on a regular basis. Possible topics include cell and molecular biology as it relates to the eye and vision, comparative studies of the vertebrate eye, current research, experimental design, optical and ophthalmic instruments, pathology, and

pharmacology. This course may be taken for credit more than once when different topics are covered.

**VSCI-V 791 Quantitative Methods for Vision Research (3 cr.)** Introduction to communication theory approach to problems in vision. Topics include the sensory nerve code, representation of nerve messages by orthogonal functions, sampling theorem, linear filters, Fourier analysis in one and two dimensions, analysis of directional data, stochastic processes, and signal detection theory.

**VSCI-V 792 Ethical Issues in Scientific Research (1 cr.)** This required course explores the ethical issues and dilemmas raised by research in the biological sciences.

**VSCI-V 793 Critical Evaluation of Peer Reviewed Publications in Vision Science (1 cr.)** This course provides experience to students to critically evaluate literature in the area of vision research. Students will meet for two hours each week for an eight week period. Evaluation will be based on attendance, reading assignments and class participation.

**VSCI-V 795 Third-Year Research (1-5 cr.)**

**VSCI-V 799 M.S. Thesis Research (1-10 cr.)**

**VSCI-V 801 Basic Experimental Design and Methods in Vision Science (3 cr.)** An introduction to basic research skills in vision science.

**VSCI-V 899 Ph.D. Dissertation Research (1-12 cr.)**

## Financial Aid & Fellowships

A graduate student enrolled in the Vision Science Program may be eligible for fee remission awards and for fellowship and assistantship awards.

Indiana University assistance includes the Graduate Scholars Fellowship, Women in Science Graduate Fellowship, the Ronald E. McNair Graduate Fellowship, and the Educational Opportunity Fellowship. To be considered for one of these fellowships, a student should contact the Indiana University School of Optometry Office of Student Administration. Most aid programs need to be applied for in the fall semester to be available for Fall admission.

Additional information regarding eligibility may be found at the [University Graduate School website](#).

In addition, a graduate student may apply for [Ezell Fellowships of the American Optometric Foundation](#), 6110 Executive Boulevard, Suite 506, Rockville, MD 20852; (301) 984-4734.

For other financial aid, grants-in-aid, and fellowships, refer to the University Graduate School Bulletin.

Information is also available on the [School of Optometry Financial Aid web page](#).

## Business Management Certificate and MBA Program in the Business of Eye Care

Gain business knowledge that you can apply as an eye care professional. All eye care professionals are well served to have some business knowledge in order to succeed in the eye care industry. The Business

Management Certificate in the Business of Eye Care offers an understanding on how to improve business operations. This program is specifically geared to eye care professionals and designed to equip students with practical business intelligence, management skills and research tools. You'll learn how to make your work days more effective—so that while you keep one eye on your daily responsibilities, you can keep the other on big-picture goals.

**This program is designed for:**

- current students at the Indiana University School of Optometry or another optometry professional school
- practicing optometry professionals
- non-OD professionals who are working in various support and management roles

**Program Overview**

- Ultimate flexibility with web-based learning
- Blended format with live instruction sessions
- Eye care specific program designed for working professionals
- Eye care courses taught by world-renowned faculty
- A certificate/degree from a top-ranked program, recognized globally
- Join and network with 100,000 living alumni

## Programs Available

### Business Management Certificate in the Business of Eye Care

Through a Kelley School of Business / Indiana University School of Optometry partnership, the eye care industry is supported by the Kelley Executive Certificate in the Business of Eye Care (ECBE). This [Kelley Executive Partners](#) program allows working professionals and professional students to learn the business side of eye care using the same proven method of learning honed in the school's highly acclaimed [Kelley Direct online MBA program](#).

The program consists of three courses—offered as core subjects in a typical MBA program—taught by members of the world-renowned Kelley faculty. A final fourth course is taught by members of the IU Optometry School faculty recognized for their teaching and practice management leadership. Course work is conducted online in various methods and formats, and culminates in a one day capstone experience on the IU Bloomington campus.

### Kelley School of Business MBA in the Business of Eye Care

This is an online program of the top rated Kelley School of Business, in cooperation with the IU School of Optometry, to offer business education and training for optometric professionals and persons in the ophthalmic industry. This first of its kind ever program provides all the benefits of an MBA education with the added bonus of having parts of the curriculum target specifically to the business that participants are in.

The online format allows for great flexibility, accommodates life changes and moves, and successfully translates across various time zones. All twelve hours of the Kelley Business Management Certificate in the

Business of Eye Care count toward the first requirements for the MBA.

### Application for Programs

Candidates can apply at the [Kelley School of Business Executive Degree Programs](#) page.

### Contact Information

Todd D. Peabody, O.D., M.B.A.  
Clinical Associate Professor  
Associate Dean, Institutional Advancement

[tpeabody@indiana.edu](mailto:tpeabody@indiana.edu)

Indiana University [School of Optometry](#)  
800 E. Atwater Avenue  
Bloomington, IN 47405-3680

## Organizations

The principal organizations open to, and governed by, students in the School of Optometry are the following:

### American Optometric Student Association, Indiana University School of Optometry Chapter (AOSA)

All optometry students are eligible for membership in the IU chapter of this national organization. This organization serves as a source of information about changes in the field of optometry, provides a variety of learning experiences for students, and represents students in many allied organizations. Through its Board of Trustees, local chapters help to shape national policies on optometric education.

### Indiana University Optometric Student Association (IUOSA)

All optometry students are eligible for membership in the IUOSA, which is affiliated with the American Optometric Student Association. The association is active in current student affairs, sponsors social events, and provides suggestions and assistance to the dean and faculty.

### Indiana University National Optometric Student Association (NOSA)

The IU membership of NOSA comprises representatives of minority groups among the student body. The local chapter is a student affiliate of the National Optometric Association. The association sponsors an awards ceremony each year and aids the school in a variety of ways.

### Beta Sigma Kappa

A chapter of this international honorary optometric society was established at Indiana University in 1983. The organization is open to optometry students with outstanding scholastic achievements and is dedicated to research and exemplary optometric practice.

### Student Volunteer Optometric Services to Humanity (SVOSH)

This organization provides eye care to individuals, usually in developing countries, who are otherwise unable to obtain this care for themselves. SVOSH collects and catalogs used eyeglasses, which are then distributed during an eye-care trip to an area of need.

### Fellowship of Christian Optometrists

FCO is an organization that promotes, furthers, and maintains Christian fellowship among optometry students. Activities include discussions of current topics of interest led by guest speakers, the establishment of an ongoing eye clinic at an overseas mission, and screening missions to Third World countries.

### Gold Key International Optometric Honor Society

This organization was created to recognize leadership in optometric schools and has been recognized by the AOSA as the highest honor for leadership a student of optometry can achieve. Gold Key recognizes leadership in the class, the school, and the optometric profession.

### Private Practice Club

This club provides business information through guest speakers and workshops regarding optometric private practices for the use of IU optometry students. Through Facebook we hope to remind members of upcoming meetings, share pictures and links, and gain feedback.

### Optometric Extension Program

OEP aims to help students learn more about these binocular vision and vision therapy through club meetings, guest speakers, and conferences

## Policies & Procedures

### Indiana University School of Optometry Student Immunization Policy

All students entering the Indiana University School of Optometry must meet the immunization requirements of both the University and Indiana Code 20-12-71. Students must provide documentation of the following immunizations:

- two measles, one mumps, and one rubella
- tetanus/diphtheria within the past 10 years
- tuberculin skin test within six months of the first semester
- two varicella (Chickenpox) vaccines

The School of Optometry requires the following additional immunizations:

- annual tuberculin skin test
- hepatitis B immunization series

### Indiana University School of Optometry Student Participation in Outside Trips or Events

#### Introduction

Throughout the course of the academic year there may be times when students wish to attend an event that occurs when classes are in session. If the IU School of Optometry agrees that the event has positive academic or professional significance, then student attendance at that event may be approved, or sanctioned, by the school. Examples of such sanctioned trips that have occurred in the past include VOSH, FCO, AAO, AOA, and AOA-PAC. It should be noted that because absence for an event or trip was sanctioned in the past, a blanket sanction for a trip or event should not be automatically assumed for



the future, especially when such a trip may fall at a time when absences would be detrimental to students or to the academic calendar. An example would be a proposed trip or event that occurs during the entire week of final exams. Faculty sponsors for planned events should work with IUSO administration before events are formalized.

### School-Sanctioned Trips or Events

1. A student group planning a school-sanctioned trip or event may have their own qualifications for those who desire to participate. Their selection of participants must meet the approval of the group's faculty sponsor. In addition, each student who has been selected or approved by the faculty sponsor must also meet the following requirements:
  1. The student must be in good Academic Standing; i.e. not on Academic Probation.
  2. The Associate Dean of Students and the Director of Student Administration must be notified of the student's desire to go, either by the faculty sponsor or by the student.
  3. Individual students must contact each course instructor to determine how any work, labs or exams that would be missed could be made up. For clinic courses:
    1. Third year students must communicate with the Chief of Primary Care.
    2. For 4<sup>th</sup> year students or 3<sup>rd</sup> year students in specialty clinics, the Chief of the affected clinic section(s) should be contacted with sufficient advance notice to allow the creation of a modified clinic schedule. The Chief will retain the right to require swaps with another student if deemed necessary.
  4. Those serving as AIs must make arrangements with the instructor of the course in which they serve as AIs. A reasonable arrangement for absence could include having an AI from another lab section serve in their place. If this is not possible, the AI may ask the course instructor if they may have another qualified volunteer student who is not normally an AI in that course serve as their substitute. The faculty in charge of the course must approve any substitute. Unless the substitute is already on the IUSO payroll as an AI, Indiana University cannot pay them - they are volunteering their time. If there is no substitute available, or if the proposed substitute is determined to be inadequate, the regular AI must fulfill his or her teaching responsibilities. Their trip will need to be forgone or rescheduled.
  5. Fourth year students on external rotations need approval from the external rotation director serving at the site of their external rotation.
2. The faculty sponsor of the group should notify faculty of all students who wish to participate in the school sanctioned trip. Notification should be specific to each year. For example, the faculty sponsor would notify faculty teaching second year classes of their

second year students who would miss their classes. Nevertheless, it remains the responsibility of each individual student to reach out to their instructors as a follow-up to an email from the faculty sponsor. The student is responsible for arranging a make-up of class activities that might be missed.

3. The Associate Dean of Students, Executive Associate Dean, or the Dean has the authority to deny absences for school-sanctioned events. Reasons for denial may include, but are not limited to, instances such as marginal academic performance, poor attendance, or any other situations that affect academic performance negatively.
4. Requests for absences that occur in a given semester must be made within the first 3 weeks of that semester.

### Other Trips or Events

There may be requests for absences that are not included as sanctioned trips. Absences for cases of non-sanctioned trips or events such as Vision Expo must follow the same general procedures as listed above. This would include

1. Student must be in good academic standing
2. In the absence of a faculty sponsor, consulting with and obtaining provisional approval from the Associate Dean of Students.
3. Approval by the Associate Dean of Students is contingent upon satisfactory class, clinic, and AI arrangements satisfactory to the student's individual course and clinic instructors.

## Faculty

For the most up-to-date information, please visit the [IU School of Optometry faculty directory](#).

### Primary Faculty

- **Bedwell, Anna, O.D.** (Indiana University, 2010), Clinical Assistant Professor of Optometry
- **Begley, Carolyn G., M.S.** (Indiana University, 1979), O.D. (1983), Professor of Optometry
- **Bonanno, Joseph A., O.D.** (University of California, Berkeley, 1981), Ph.D. (1987), Professor of Optometry and Dean
- **Bradley, Arthur, Ph.D.** (University of California, Berkeley, 1983), Professor of Optometry
- **Braun, Mark W., M.D.** (Indiana University, 1975), M.S. (1997), Professor of Medical Pathology (part-time), Director of Medical Pathology and Medical Sciences Program
- **Brooks, Clifford W., O.D.** (Indiana University, 1971), Professor of Optometry and Executive Associate Dean for Academic Affairs
- **Burns, Stephen A., Ph.D.** (The Ohio State University, 1977), Professor of Optometry and Associate Dean of Graduate Programs
- **Candy, T. Rowan, B.Sc.** (University of Wales, 1989), Ph.D. (University of California, Berkeley, 1997), Associate Professor of Optometry
- **Connolly, Katie S., O.D.** (Michigan College of Optometry, 2014), Clinical Assistant Professor and Chief of Pediatric and Binocular Vision Service

- **Elsner, Ann E., Ph.D.** (University of Oregon, 1981) Professor of Optometry
- **Faimon, Donald R. O.D.** (Indiana University, 1987), Senior Clinical Lecturer of Optometry
- **Grogg, Jane Ann, O.D.** (Indiana University, 1994), Clinical Professor of Optometry
- **Hassan, Shirin E., Ph.D., B.App.Sc.** (Queensland University of Technology, 2001), Associate Professor of Optometry
- **Henderson, Patricia A., O.D.** (Indiana University, 1985), Clinical Associate Professor of Optometry and Chief of Primary Eye Care Service
- **Himebaugh, Nikole L., O.D.** (Indiana University, 1995), **Ph.D.** (Indiana University, 2007), Lecturer, School of Optometry
- **Hunter, James E. O.D.** (Indiana University, 1976), Adjunct Clinical Lecturer of Optometry
- **Jarrard, Paula D., M.S.** (University of Southern Indiana, 2006), Adjunct Clinical Lecturer of Optometry
- **Jedlicka, Jason, O.D.** (Salus University, 1996), Clinical Associate Professor of Optometry and Chief of Cornea and Contact Lens Service
- **King, Brett, O.D.** (Indiana University, 1998) Clinical Associate Professor of Optometry and Chief of Ophthalmic Disease
- **Kohne, Kimberly, O.D.** (University of Missouri, St. Louis, College of Optometry, 2004), Clinical Associate Professor of Optometry and Associate Dean for Students
- **Kollbaum, Elli J., O.D.** (Indiana University, 1997), Clinical Associate Professor of Optometry, Chief of Vision Rehabilitation Service and Director of Externships
- **Kollbaum, Peter S., O.D.** (Indiana University, 1999), M.S. (Indiana University Purdue University at Indianapolis, 2007), **Ph.D.** (Indiana University, 2007) Associate Professor of Optometry, Associate Dean of Research and Director of Borish Center for Ophthalmic Research
- **Kovacich, Susan, O.D.** (Indiana University, 1987), Clinical Associate Professor of Optometry
- **Liu, Chia-Yang, M.S.** (National Taiwan University, 1985), **Ph.D.** (University of Cincinnati, 1993), Associate Professor of Optometry
- **Lyon, Don W., O.D., M.S.** (Indiana University, 1999, 2010), Clinical Professor of Optometry and Director of Residencies
- **Miller, Donald T., Ph.D.** (University of Rochester, 1995), Professor of Optometry
- **Orr, Michael G., M.D.** (The Ohio State University, 1979), Adjunct Clinical Lecturer of Optometry
- **Otte, Nathan P., O.D.** (Indiana University, 2008), Adjunct Clinical Assistant Professor
- **Page, Jennifer G., O.D.** (Indiana University, 2002), Clinical Assistant Professor of Optometry
- **Peabody, Todd, O.D., M.B.A.** (Indiana University, 2003, 2013), Clinical Associate Professor of Optometry and Associate Dean of Institutional Advancement
- **Pence, Neil A., O.D.** (Indiana University, 1979), Senior Lecturer in Optometry and Associate Dean for Clinical and Patient Care Services
- **Perotti, Jeffrey, O.D.** (Indiana University, 1997), Clinical Associate Professor of Optometry and Associate Dean of Fiscal Affairs
- **Plass, Sandra, A.S., B.G.S.** (Indiana University, 1996), Adjunct Clinical Associate Professor of Optometry
- **Port, Nicholas L., Ph.D.** (University of Minnesota, Minneapolis, 1997), Associate Professor of Optometry
- **Sansone, Jacqueline M., O.D.** (The Ohio State University College of Optometry, 1992), Adjunct Clinical Associate Professor of Optometry
- **Situ, Ping, MSc** (University of Waterloo, Canada, 1995), **Ph.D.** (University of Waterloo, Canada, 2010), Assistant Scientist of Optometry
- **Srinivas, S.P., M.S.** (I.I.T., India, 1982), **Ph.D.** (Drexel University, 1987), Associate Professor of Optometry
- **Sutton, Bradley M., O.D.** (Indiana University, 1993), Clinical Professor of Optometry and Service Chief of Indianapolis Eye Care Center
- **Swanson, William, Ph.D.** (University of Chicago, 1984), Professor of Optometry
- **Tonekaboni, Khashayar, O.D.** (Southern College of Optometry, 1987), Clinical Assistant Professor of Optometry
- **Torbit, Julie K., O.D.** (Indiana University, 1993), Adjunct Clinical Associate Professor of Optometry
- **Valapala, Mallika, M.S.** (Osmania University, India, 2004), **Ph.D.** (University of North Texas, 2010), Assistant Professor of Optometry
- **Zhang, Yujin, M.S.** (Northwest University, China, 1990), **Ph.D.** (Southwest University, China, 1998) Associate Scientist of Optometry

## Faculty Emeriti

- **Devoe, Robert D., Ph.D.** (The Rockefeller University, 1961), Professor Emeritus of Optometry
- **Everson, Ronald W., O.D.** (Chicago College of Optometry, 1954), **M.S.** (Indiana University, 1959), Associate Professor Emeritus of Optometry
- **Freeman, Douglas, M.A.** (Indiana University, 1972), **M.L.S.** (1974), Associate Librarian Emeritus of Optometry
- **Gerstman, Daniel R., O.D.** (Indiana University, 1969), **M.S.** (1971), Associate Professor Emeritus of Optometry
- **Goss, David A., O.D.** (Pacific University, 1974), **Ph.D.** (Indiana University, 1980), Professor Emeritus of Optometry
- **Guth, Sherman L., Ph.D.** (University of Illinois, 1963), Professor Emeritus of Psychology, College of Arts and Sciences
- **Hafner, Gary S., Ph.D.** (Indiana University, 1972), Professor Emeritus of Optometry and Adjunct Professor Emeritus of Anatomy, Medical Sciences Program
- **Hegeman, Sally L., Ph.D.** (University of California, San Francisco, 1969), Associate Professor Emerita of Optometry
- **Hitzeman, Steven A., O.D.** (Indiana University, 1976), Clinical Associate Professor Emeritus of Optometry

- **Horner, Douglas G., O.D.** (Pacific University, 1974), **M.S.** (University of Houston, 1983), **Ph.D.** (1987),
- **Lowther, Gerald E., O.D.** (The Ohio State University, 1967), **M.S.** (1969), **Ph.D.** (1972), Dean Emeritus of Optometry
- **Malinovsky, Victor E., O.D.** (Indiana University, 1973), **M.S.** (Indiana University, 1973), Clinical Professor Emeritus of Optometry
- **Marshall, Edwin C., O.D.** (Indiana University, 1971), **M.S.** (Indiana University, 1979), **M.P.H.** (University of North Carolina, 1982), Professor Emeritus of Optometry and Professor Emeritus of School of Public Health (Bloomington and Indianapolis)
- **Meetz, Richard E., O.D.** (Indiana University, 1976), **M.S.** (University of Michigan, 1988), Clinical Professor Emeritus of Optometry
- **Riley, Hubert D., O.D.** (Indiana University, 1971), Assistant Professor Emeritus of Optometry
- **Soni, P. Sarita, B.Sc.** (University of Manchester, 1972), **O.D.** (Indiana University, 1976), **M.S.** (Indiana University, 1978), Professor Emerita of Optometry
- **Thibos, Larry N., Ph.D.** (University of California, Berkeley, 1975), Professor Emeritus of Optometry
- **Wilson, Graeme, M.Sc.** (The University of Manchester, 1965), **Ph.D.** (University of California, Berkeley, 1972), Professor Emeritus of Optometry
- **Case, Aaron William, O.D.** (Indiana University School of Optometry, 2006), VA Northern Indiana Health Care System, Fort Wayne, IN, Adjunct Clinical Assistant Professor, School of Optometry
- **Cordes, Matthew G., O.D.** (Illinois College of Optometry, 1999), The Villages VA Outpatient Clinic, The Villages, FL, Adjunct Clinical Associate Professor, School of Optometry
- **Cordes, Sarah, O.D.** (Indiana University School of Optometry, 2002), The Villages VA Outpatient Clinic, The Villages, FL, Adjunct Clinical Assistant Professor, School of Optometry
- **Corey, Natalie, O.D.** (Indiana University School of Optometry, 2009), Ossip Optometry and Ophthalmology, Westfield, IN, Adjunct Clinical Assistant Professor and Residency Coordinator, School of Optometry
- **Courson, Elizabeth, O.D.** (Indiana University School of Optometry, 2014), Ireland Army Community Hospital, Fort Knox, KY, Adjunct Clinical Assistant Professor, School of Optometry
- **Crutchfield, Barbara Jean, O.D.** (Indiana University School of Optometry, 1990), Department of Ophthalmology, University of Kentucky, Lexington, KY, Adjunct Clinical Associate Professor and Residency Coordinator, School of Optometry
- **Den Beste, Brian, O.D.** (Illinois College of Optometry, 1980), Lasik Pro Vision Consultants, Orlando, FL, Adjunct Clinical Professor, School of Optometry
- **Denton, Bill, O.D.** (Michigan College of Optometry at Ferris State University, 2000), Ralph H. Johnson VA Medical Center, Charleston, SC, Adjunct Clinical Assistant Professor, School of Optometry
- **DePeau, Michelle, O.D.** (Indiana University School of Optometry, 2010), Green Bay VA Eye Clinic, Green Bay, WI, Adjunct Clinical Assistant Professor, School of Optometry
- **Dierker, Damon Shelby, O.D.** (Indiana University School of Optometry, 2002), Eye Surgeons of Indiana, Indianapolis, IN, Adjunct Clinical Assistant Professor, School of Optometry
- **Egenmaier, Walter Henry, O.D.** (University of Alabama at Birmingham School of Optometry, 1982), EyeCare Consultants, Evansville, IN, Adjunct Clinical Associate Professor, School of Optometry
- **Eiden, S. Barry, O.D.** (Illinois College of Optometry, 1981), North Suburban Vision Consultants, Ltd., Deerfield, IL, Adjunct Clinical Associate Professor, School of Optometry
- **Elam, Candice, O.D.** (University of Alabama at Birmingham School of Optometry, 2010), Lexington VA Medical Center, Lexington, KY, Adjunct Clinical Assistant Professor, School of Optometry
- **Elkins, Meghan, O.D.** (Southern College of Optometry, 2010), Huntington VA Medical Center, Huntington, WV, Adjunct Clinical Assistant Professor, School of Optometry
- **Fisher, Brian, O.D.** (Midwestern University Arizona College of Optometry, 2013), The Villages VA, The Villages, FL, Adjunct Clinical Assistant Professor, School of Optometry
- **Flamich, Lucas, O.D.** (Illinois College of Optometry, 2014), Huntington VA Medical Center, Huntington,

## Adjunct Faculty

- **Alberts, Megan, O.D.** (University of Missouri, 2010), Department of Veterans Affairs, Evansville, IN, Adjunct Clinical Assistant Professor, School of Optometry
- **Anderson, Drew, O.D.** (Pacific University College of Optometry, 2012), Lexington VA Medical Center, Lexington, KY, Adjunct Clinical Assistant Professor, School of Optometry
- **Atanasoff, Tara, O.D.** (Michigan College of Optometry, 2003), Milo C Huempfer VA Health Care Center, Green Bay, WI, Adjunct Clinical Assistant Professor, School of Optometry
- **Bloom, Steven Mark, M.D.** (The Medical College of Pennsylvania, 1984), Bennett and Bloom Eye Centers, Louisville, KY, Adjunct Clinical Assistant Professor, School of Optometry
- **Bonner, Angelina, O.D.** (Indiana University School of Optometry, 2012), Danville VAMC, Danville, IL, Adjunct Clinical Assistant Professor, School of Optometry
- **Bowersox, Daniel Mark, O.D.** (University of Missouri, College of Optometry, 1993), Bowersox Vision Center, Shelbyville, KY, Adjunct Clinical Assistant Professor, School of Optometry
- **Bustamante, Sara, O.D.** (Nova Southeastern University, 2004), Naval Health Clinic, Quantico, VA, Adjunct Clinical Assistant Professor, School of Optometry
- **Carter, Randy B., O.D.** (Indiana University School of Optometry, 1983), The Eye Institute of Utah, Salt Lake, UT, Adjunct Clinical Associate Professor, School of Optometry
- **Carter, Stephanie, O.D.** (Indiana University School of Optometry, 2009), The Villages VA Outpatient Clinic, The Villages, FL, Adjunct Clinical Assistant Professor, School of Optometry

- WV, Adjunct Clinical Assistant Professor, School of Optometry
- **Foltz, Tara, O.D.** (University of Alabama at Birmingham School of Optometry, 2006), Lexington VA Medical Center, Lexington, KY, Adjunct Clinical Assistant Professor, School of Optometry
  - **Fries, Patti Lynn, O.D.** (University of Missouri, College of Optometry, 2002), University Of Nebraska Medical Center, Omaha, NE, Adjunct Clinical Associate Professor, School of Optometry
  - **Gipp, Jennifer, O.D.** (Indiana University School of Optometry, 2007), Gundersen Lutheran, Prairie Du Chien, WI and Decorah, IA, Adjunct Clinical Assistant Professor and Residency Coordinator, School of Optometry
  - **Goen, T. Michael, O.D.** (Indiana University School of Optometry, 1984), VA Gulf Coast Veterans Health Care System, Pensacola, FL, Adjunct Clinical Associate Professor, School of Optometry
  - **Graf, Frank E., O.D.** (Pennsylvania College of Optometry, 1978), Truhlsen Eye Institute at University Of Nebraska Medical Center, Omaha, NE, Adjunct Clinical Associate Professor, School of Optometry
  - **Groppel, Piper Gwen, O.D.** (Indiana University School of Optometry, 2004), Roudebush VA Medical Center, Indianapolis, IN, Adjunct Clinical Assistant Professor, School of Optometry
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