School of Optometry

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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) at 501 Indiana Avenue in Indianapolis. In 2008, the Atwater Eye Care Center (AECC) moved from the second floor of the school to a new clinic building across the street, 744 E. Third Street.

In 2020 the services at IECC relocated to the Eugene and Marilyn Glick Eye Institute at 1160 W. Michigan St. on the Indiana University–Purdue University Indianapolis campus.

Fourth-year optometry students receive additional clinical training through external rotations at locations such as Veterans Administration facilities, Indian Health Service clinics, private practices, 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.
For the complete, detailed history of IUSO, please visit https://optometry.iu.edu/about/history.html.

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 an 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.

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 entitled “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
October 28, 2021

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
Bloomington, Indiana 47405-3680
(812) 856-3502
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

Students must take their pre-optometry course work at an accredited institution and earn a grade of C or higher. All pre-optometry requirements must have been completed within 10 years from the time when the student hopes to begin the Doctor of Optometry program. Each course, with one exception meets just one requirement. Pre-optometry requirements must be completed by the time the student enters the School of Optometry. Students who already have a bachelor’s degree with a major in a science field are often fully prepared for admission to the School of Optometry. Those with degrees in non-science fields may find additional course work required. A competitive applicant will have a GPA of 3.2 or higher.

A maximum of 60 semester hours may be taken at a community/junior/technical college. None of the specified courses may be taken on a pass/fail basis. Up to three on-line courses may be taken with ALL labs completed in a classroom setting. The Semesters-Quarters required in the individual subjects are considered absolute minimums, which must be met or exceeded.

• Applications must be submitted to OptomCAS (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:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Minimum Semesters or Quarters Required</th>
<th>Comparable IU courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology/Zoology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Introductory, with lab</td>
<td>One Semester– 1 Quarter</td>
<td>BIOL 112 and L 113</td>
</tr>
<tr>
<td>• Advanced (animal or developmental, 200+ level)</td>
<td>One Semester– 1 Quarter</td>
<td>ANAT-A 215 or PHSL-P 215</td>
</tr>
<tr>
<td>Microbiology, with lab</td>
<td>One Semester– 1 Quarter</td>
<td>BIOL-M 250/M 315 or M 380/M 315</td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Organic (lab recommended)</td>
<td>One Semester– 1 Quarter</td>
<td>C 341. C 342 also recommended</td>
</tr>
<tr>
<td>• General/Inorganic, with labs</td>
<td>Two Semesters– 3 Quarters</td>
<td>CHEM-C 117¹ / C 127 and N 331 and N337² or C 118</td>
</tr>
<tr>
<td>• Biochemistry (can be listed under Biology)</td>
<td>One Semester– 1 Quarter</td>
<td>CHEM-C 383, 483 (484 for Biochem majors) or BIOL-M 350 (for Microbiology majors only)</td>
</tr>
<tr>
<td>Mathematics (one course)</td>
<td>One Semester– 1 Quarter</td>
<td>Any course or courses fulfilling IU Math Modeling Requirements³</td>
</tr>
<tr>
<td>Physics–General</td>
<td>Two Semesters– 3 Quarters</td>
<td>PHYS-P 201 and P 202</td>
</tr>
<tr>
<td>Statistical Techniques</td>
<td>One Semester– 1 Quarter</td>
<td>STAT-S 300, or S303; PSY-K 300 or K 310; SPEAK 300; ECON-</td>
</tr>
</tbody>
</table>
Early Admission Option

A total of 90 semester hours of college credit is required as a minimum for ‘Early Admission’ to the School of Optometry; however, a bachelor’s degree is strongly recommended. Of the 90 credit hours, at least 12 must be at the 300-400 level.*

To qualify without a bachelor’s degree and apply as an ‘early admission’ candidate, you must have a minimum cumulative GPA of 3.6.

*In addition to the above courses, students entering the Indiana University School of Optometry without a bachelor’s degree must have completed the following courses:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Minimum Semesters or Quarters Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Humanities</td>
<td>Two Semesters - 2 Quarters</td>
</tr>
<tr>
<td>Social and Historical Studies</td>
<td>Two Semesters - 2 Quarters</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Two Semesters - 2 Quarters</td>
</tr>
<tr>
<td>Additional Credits</td>
<td>as needed</td>
</tr>
<tr>
<td>Total Credits</td>
<td>90</td>
</tr>
</tbody>
</table>

Strongly Recommended

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Comparable IU Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Biology</td>
<td></td>
</tr>
<tr>
<td>• Vertebrate or Human</td>
<td>ANAT-A 215 or A 464</td>
</tr>
<tr>
<td>Anatomy with lab/</td>
<td></td>
</tr>
<tr>
<td>Histology</td>
<td></td>
</tr>
<tr>
<td>• Physiology with lab</td>
<td>PHSL-P 215</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Recommended Elective Courses

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Comparable IU Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy &amp; Physiology of the Eye</td>
<td>TOPT-V 201</td>
</tr>
<tr>
<td>Cell Biology</td>
<td>BIOL-L 31</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>PSY-P 337 or PSY-P 346</td>
</tr>
<tr>
<td>Sensation and Perception</td>
<td>PSY-P 329</td>
</tr>
<tr>
<td>Sensory Processes</td>
<td>PSY-P 329</td>
</tr>
<tr>
<td>Immunology</td>
<td>BIOL-L 321</td>
</tr>
<tr>
<td>Genetics</td>
<td>BIOL-L 331</td>
</tr>
<tr>
<td>Intro Business Administration</td>
<td>BUS-X 100</td>
</tr>
<tr>
<td>Small Business Management</td>
<td>BUS-W 300 (P: BUS-A 200)</td>
</tr>
</tbody>
</table>

1 Chem C105/C125 may be substituted for C117/C127; however, students with C105/125 credit who are planning to take C341 on the IU Bloomington campus are strongly encouraged to take C117/C127 before taking C341.

2 Chem C106/C126 may be substituted for C118 but not for N331/337.

3 Any math course(s) that fulfill(s) the Math Modeling requirement for IUB’s General Education Program will be accepted; see [https://gened.indiana.edu/requirements/index.html](https://gened.indiana.edu/requirements/index.html).

4 A minimum SAT Critical Reading score of 670 or ACT English score of 32 will exempt the student (without credit) from the requirement. Other means of completing the composition requirement exist. Consult the IUB College of Arts and Sciences Bulletin for details on these options.

5 Specific Arts & Humanities and Social & Historical Studies courses may count toward both the distribution requirements and the intensive writing requirement.

6 A minimum of two courses is required for each. For departments in this area, consult the IUB College of Arts and Sciences Bulletin at [https://bulletins.iu.edu/2019-2021/optometry](https://bulletins.iu.edu/2019-2021/optometry).

7 This requirement for an IU Bachelor of Science in Optometry may be met by placement examination. Students who have completed two or more years of a single foreign language in high school with an average grade of C or above, or have completed a bachelor’s degree at another institution, are exempt from this requirement. (Note: Variation exists among academic divisions of the university in basic foreign language requirements and exemption policies. Consult the appropriate bulletin for foreign language requirements.)

Additional Information

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

For further 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

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. The university schedules two regular academic semesters and a summer session.

**Doctor of Optometry Curriculum**

**First Year**

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 521</td>
<td>Geometric and Visual Optics I</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>V 540</td>
<td>Ocular Biology I</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>V 542</td>
<td>Systems Approach 5.5 cr. to Biomedical Sciences I</td>
<td>5.5 cr.</td>
</tr>
<tr>
<td>V 550</td>
<td>Clinical Sciences I</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>V 554</td>
<td>Optometric Profession I</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17.0 cr.</td>
</tr>
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</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 501</td>
<td>Integrative Optometry I</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 523</td>
<td>Geometric and Visual Optics II</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>V 543</td>
<td>Systems Approach 4.5 cr. to Biomedical Sciences II</td>
<td>4.5 cr.</td>
</tr>
<tr>
<td>V 551</td>
<td>Clinical Sciences II: Motility &amp; Refraction</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>V 560</td>
<td>Vision Science I: Perception</td>
<td>3.5 cr.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17.0 cr.</td>
</tr>
</tbody>
</table>

**Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 574</td>
<td>Intro to Epidemiology and Optometric Research</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 552</td>
<td>Clinical Sciences II: Anterior Segment Exam. Techniques</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 665</td>
<td>Vision Science II: Ocular Motility</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Second Year**

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 601</td>
<td>Integrative Optometry II</td>
<td>2.0 cr.</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 631</td>
<td>Optics III: Ophthalmic Optics</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>V 642</td>
<td>General Pharmacology</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>V 652</td>
<td>Clinical Sciences III: Accommodation and Binocular Vision</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>V 653</td>
<td>Clinical Sciences III: Posterior Segment Examination Techniques</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 655</td>
<td>Optometric Profession II</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>V 678</td>
<td>Ophthalmic Dispensing</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17.5 cr.</td>
</tr>
</tbody>
</table>

**Third Year**

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 701</td>
<td>Grand Rounds I</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>V 745</td>
<td>Ocular Disease II</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>V 748</td>
<td>Physical Assessment and Medicine</td>
<td>3.5 cr.</td>
</tr>
<tr>
<td>V 756</td>
<td>Clinical Assessment I</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>V 758</td>
<td>Advanced Clinical Concepts in Binocular Vision and Pediatrics</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>V 786</td>
<td>Optometry Clinic</td>
<td>2.0 cr.</td>
</tr>
</tbody>
</table>
### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 702</td>
<td>Grand Rounds II</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>V 740</td>
<td>Ocular Disease V: Lasers, Injections, and Minor Surgical Procedures</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 746</td>
<td>Ocular Disease III: Neuro-Optometry</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 749</td>
<td>Ocular Disease IV: Applied Ocular Therapeutics</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>V 751</td>
<td>Low Vision Rehabilitation</td>
<td>3.0 cr</td>
</tr>
<tr>
<td>V 754</td>
<td>Optometric Profession III: Public Health Policy, Legal, Historical and Ethical Issues</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>V 757</td>
<td>Clinical Assessment II</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>V 759</td>
<td>Business Aspects of Optometry</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 788</td>
<td>Optometry Clinic</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>V 789</td>
<td>Optometry Clinic</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18.5 cr.</strong></td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 885</td>
<td>Optometry Clinic (Bloomington)</td>
<td>10.0 cr.</td>
</tr>
<tr>
<td>V 887</td>
<td>Extension Clinic (Indianapolis)</td>
<td>10.0 cr.</td>
</tr>
<tr>
<td>V 888</td>
<td>External Clinic</td>
<td>10.0 cr.</td>
</tr>
<tr>
<td>V 888</td>
<td>Fourth Clinical Assignment (V 885, V 887, Or V 888)</td>
<td>10.0 cr.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>40.0 cr.</strong></td>
</tr>
<tr>
<td><strong>Overall Total</strong></td>
<td></td>
<td><strong>161.5 cr.</strong></td>
</tr>
</tbody>
</table>

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 withholds 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 students 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). 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 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, ocularmotor 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). 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 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 (0.5 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 and will include the first Interprofessional Education (IPE) event at the Exposure level.

**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.)**  

**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.)**  

**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. Includes the third IPE event at the Entry-to-Practice level.

**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: 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, Primary Care, and Vision Rehabilitation. The School also offers affiliated residencies in Primary Care, Ocular Disease, and Vision Rehabilitation located in Illinois, Indiana, Iowa, Kentucky, West Virginia and Wisconsin.

Indiana University directs all residencies through the office of Anna Bedwell, O.D., Director of Residencies, School of Optometry, Indiana University, 1160 West Michigan Street, Indianapolis, IN 46202; 317-278-1486. 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
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

Gundersen Eye Department Neuro Rehabilitation Residency
1900 South Avenue
La Crosse, Wisconsin 54601
Satellite Clinics in Decorah, IA, Viroqua, WI, and Prairie du Chien, WI
(863) 382-2639 x 75633
Program Coordinator: Jennifer Gipp, O.D., JEGipp@gundersenhealth.org

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

Hershel “Woody” Williams VA Medical Center Optometry Service (123)
1540 Spring Valley Drive
Huntington, WV 25704
(304) 429-6755 x 2696
Program Coordinator: Jacqueline M. Hallauer, O.D., jacqueline.hallauer@va.gov

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

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

Positions Available: 1

**Vision Rehabilitation with an emphasis in Ocular Disease**
Indiana University School of Optometry
Indianapolis Eye Care Center
1160 W. Michigan St., Suite 100
Indianapolis, IN 46202
(317) 278-1470
Program Coordinator: Anna Bedwell, O.D., abedwell@indiana.edu

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

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: Nikolaos Zagorianos, O.D., nzagoria00@gmail.com

University of Kentucky Medical Center Department of Ophthalmology
E 309 Kentucky Clinic
740 S. Limestone Drive
Lexington, KY 40536-0284
(859) 323-5876 x 259
Program Coordinator: Ellen Sanders, O.D., ellen.sanders@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

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

Positions Available: 1

MyEyeDr.
316 W. 161st St.
Westfield, IN 46074
(317) 867-0555
Program Coordinator: Natalie Corey Tangen, O.D., 
natalie.corey-tangen@com

For the most up-to-date information, please visit the 
IU SO 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 excellence. A number of the 
awards require a specific application, while other awards 
amre 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 
structors, 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 lubo@indiana.edu.

Financial Aid
To apply for federal financial assistance, students need to 
file the Free Application for Federal Student Aid (FAFSA) etween October 1 and April 15 each year. They may also 
file after April 15, but may not be considered for all the 
aid possible, depending on funding. Students may file the 

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.

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 
one they obtain their degrees. There are several student 
loan programs available to doctoral optometric students:
- Federal Direct Unsubsidized 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.

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 amkhoff@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” and the accompanying discussion period. Participation implies that the seminar will be taken for credit.

**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 optional. 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-native 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 is required. Most of the courses will be based on the didactic courses in the School of Optometry’s Doctorate of Optometry curriculum. Core courses 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 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.

Students must enroll in, and participate in, the weekly Vision Science Seminar (V765) known as “Oxyopia” and the accompanying discussion period. Participation implies that the seminar will be taken for credit. For semesters with conflicts with their clinical duties and/or rotations, a student may petition to be released from this requirement. Students in research programs (thesis-based MS and Ph.D.) are expected to be able to make presentations on their research. Students in the thesis-based MS program must make one such presentation prior to graduation.

**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 and with the approval of the faculty advisor. 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 (V765) 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**
To successfully obtain a Ph.D. a student must successfully pass three major milestones. The first is the qualifying exam, typically taken at the end of the second year in the program. The second step is advancement to candidacy, which requires meeting all major course requirements, including studies in a minor area, and evaluation of a written dissertation proposal. The final stage is to complete and defend the Ph.D. dissertation.

**Advisory, Testing and Research Committees**
Students must identify a major advisor and have an advisor by the end of their first year. Students must form an advisory committee be the end of their first year; later in their course of study, students must form a research (dissertation) committee once the research topic for the
dissertation is identified and at least by the time of the defense of the dissertation proposal. With the formation of the research committee, the advisory committee is dissolved. The student’s advisory committee is chaired by a faculty member identified by the Associate Dean for Graduate Programs. The research committee is chaired by the student’s dissertation advisor. The advisory or research committee shall consult with the student, at least once per year, to help determine the student’s course of graduate study, develop a research program, approve the student’s course selections, and review the student’s progress in all areas (for example, but not limited to: completion of required courses, course grades, adequacy of teaching, and research progress). Following each yearly meeting, a written report of the meeting must be filed with the Associate Dean for Graduate Programs. The student’s committee will determine whether or not the student is making adequate progress in all areas. Should the advisory (or research) committee determine that a student is not making adequate progress in any area, this may be grounds for eliminating a student’s department funding, probation, or dismissal from the program. The testing committee is formed solely for the purpose of developing and administering the qualifying examination for a student and to evaluate the students’ performance on that examination.

**Composition of the Testing Committee**
At the first graduate faculty meeting of each academic year students eligible for the qualifying exams in the upcoming year will be identified, and a testing committee will be assigned by the Associate Dean for Graduate Programs. Typically, several members of the student’s advisory committee will serve as members of the testing committee, although any graduate faculty member is expected to participate if requested as part of the teaching expectations within the graduate program. One member of the testing committee will be identified as chair of the testing committee. The testing committee will not include the student’s chosen mentor.

The chair of the testing committee will contact the student, let them know the committee members, and establish a time window for the exam to be taken. The chair of each exam committee is responsible for setting the date of the examination(s) and communicating with the student. The chair of the testing committee can invite a faculty member from another department (i.e., minor department) if they deem appropriate. The chair of the committee will discuss the student’s plans for study and needs with the intended dissertation supervisor and the student prior to working with the committee to formulate the qualifying exam questions. If the student has questions or issues with the plans for the qualifying exam, they may only interact with the chair of the testing committee, or in extraordinary circumstances with the Associate Dean for Graduate Programs.

**Qualifying Exam**
The qualifying exam is the first major step for a Ph.D. student towards achieving candidacy for Ph.D. status. Successful completion of the qualifying examination qualifies the student to perform their dissertation research.

The qualifying exam consists of two portions, a written portion and an oral portion. The typical student will take the qualifying exam during their second year, although an exception in unusual circumstances can be made by the Associate Dean for Graduate Program of IUSO and unanimous agreement of the student’s advisory committee. The goal of the qualifying exam is to test both the student’s knowledge of Vision Science as a multidisciplinary field of study, and the student’s ability to integrate information beyond a simple recitation of facts. The qualifying exam is not intended to be a comprehensive test of detailed knowledge of all of Vision Science, but will test the ability of the student to think creatively and to integrate information in areas related to their primary interests and related areas. The written qualifying exam will consist of three questions. The student will have a two-week time limit for completing the written response. Changes to the timing of the qualifying exam and length can, in unusual circumstances, be approved by the Associate Dean for Graduate Programs. Answers to each question should not exceed 5 written pages with 1-inch margins, not including the bibliography.

The oral qualifying exam will be administered by the examination committee typically within a week after the written exam is returned to the committee. The oral exam can cover a breadth of topics in eye and vision research, but will concentrate on material that a second year student within the student’s planned course of specialization within Vision Science can be expected to be familiar with.

The outcome of the qualifying examination will be determined by the examination committee after the oral exam is concluded. Results will be either “pass” or “fail”. All student who fail will have a second chance to pass, with the examination committee determining which components need to be reassessed (written, oral, or both). If re-examination is required, it should be completed within approximately one month of the original oral examination.

**Establishing a Minor Area of Knowledge**
The University Graduate School requires students to complete a minor area of study in order to be admitted to candidacy. In the case of a traditional minor, the requirements for completion are defined by the department or program offering the minor. In cases of custom minors, which are common in Vision Science due to its multidisciplinary nature, the evaluation of the minor will be established both by passing all classes with a GPA of 3.0 and all classes with a B- or above and an evaluation of the breadth of knowledge gained either by incorporating aspects of their minor within the dissertation proposal, or in an appendix.

**Dissertation Proposal**
The final step before being admitted to candidacy is for the students to present their advisory committee with their dissertation proposal. This proposal will follow the current NIH format of a 12-page proposal. The proposal will represent a body of work that, if this work is then completed successfully, would be adequate for a Ph.D. dissertation. This step will typically be completed within the third year in the program.

The examination of the dissertation proposal will be performed by the research committee, with alternates being appointed by the Associate Dean for Graduate Programs if needed, or if members of the research committee are unavailable. This exam will consist of a
short verbal presentation by the student (15-20 minutes), followed by a discussion between the student and the research committee. The evaluation of the proposal will concentrate on the background, significance and methodology for testing the proposed hypotheses. Since individual laboratories have different approaches to scientific issues the committee will base the examination results on the appropriateness of the proposal for answering questions within the disciplinary field of the laboratory in which the student is working.

The outcome of the dissertation proposal will be either pass or fail, and determined by the majority of the research committee. Should the decision be a fail, a re-examination is possible. The timing for re-examination of the dissertation proposal will be determined by the research committee, since in rare cases the issues raised may require redesign of the experimental approach, and this may take more time. Thus, while a short interval to reexamination is desirable, the time must reflect the nature of the weaknesses that led to the fail decision.

**Advancement to Candidacy**

After successful completion of the dissertation proposal and oral defense of the proposal, as well as satisfying all course requirements, including a minor, a student can be advanced to candidacy for the Ph.D. degree. Participation in the Ph.D. program will be terminated and the student will not be advanced to candidacy if a student fails the qualifying examination twice or the dissertation defense twice.

**Completion of Dissertation**

After completion of the written dissertation, it is presented and defended at a scheduled seminar meeting. Defense of the dissertation must be scheduled at a minimum of 30 days prior to the defense, and all members of the research committee must agree that the dissertation is ready to be defended before the defense is allowed to be scheduled. The student is expected to present a nearly complete copy of the dissertation to be defended to the committee in a timely manner so that they can determine whether it is ready to defend. Agreement that a dissertation is ready to defend does not imply that a dissertation can be successfully defended.

In the Vision Science program every dissertation defense begins with a public presentation that is open to the public. This public presentation is typically an hour, with a talk limited to approximately 30 minutes, followed questions from the attendees. After the public presentation, the research committee and the student have a second, more private, meeting for examination. Any faculty members who are not on the research committee but wish to attend the second meeting are welcome to do so, but should notify the chairperson well in advance.

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 arguably 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

**Kelley Executive 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 Business Management Certificate in the Business of Eye Care. 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 credit hour 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
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 at IU)

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.

All optometry students are eligible for membership in the AOSA at IU, which is affiliated with the national 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.

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.

Contact Lens Club

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.

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.

Low Vision Club

Ocular Disease Club

Optometric Extension Program

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

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.

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.

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
School-Sanctioned Trips or Events

Faculty sponsors for planned events should work with the faculty sponsor. In addition, each student who has been selected or approved by the faculty sponsor with the purpose of the event 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 4th year students or 3rd 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 Associate Professor of Optometry and Director of Residencies
Bonanno, Joseph A., O.D. (University of California, Berkeley, 1981), Ph.D. (1987), Professor of Optometry and Dean

Bonnen, Kathryn, Ph.D. (University of Texas, 2018), Assistant Professor

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

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), Professor of Optometry and Executive Associate Dean for Academic Affairs

Cheng, Catherine, Ph.D. (University of California, 2009), Professor, School of Optometry

Cheung, Hin, O.D. (Ferris State University, 2014), Ph.D. (Indiana University, 2021), Clinical Assistant Professor

Clark, Christopher A., O.D. (New England College of Optometry, 2005), Ph.D. (Indiana University, 2013), Lecturer

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- Goss, David A., O.D. (Pacific University, 1974), Ph.D. (Indiana University, 1980), Professor Emeritus of Optometry
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- Hegeman, Sally L., Ph.D. (University of California, San Francisco, 1969), Associate Professor Emerita of Optometry
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