

# **Bulletin 2001–2003**

## **Bloomington and Indianapolis Campuses**

# **School of Optometry**

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The Indiana University School of Optometry is accredited by the Council on Optometric Education of the American Optometric Association, 243 N. Lindbergh Boulevard, St. Louis, MO 63141; (314) 991-4100; [www.aoanet.org](http://www.aoanet.org).

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## School of Optometry

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, a library, clinics, laboratories, offices, and supporting research and development activities. In addition to the main Atwater Eye Care Center (AECC), the school operates the Community Eye Care Center (CECC) on the west side of Bloomington. In 1992, the School of Optometry opened the Indianapolis Eye Care Center (IECC) in a newly constructed building at 501 Indiana Avenue in Indianapolis. Offering an expanded scope of patient care services, the IECC is located near the campus of Indiana University–Purdue University at Indianapolis. Fourth-year optometry students receive additional clinical training through external rotations at locations such as Veterans Administration facilities, Indian Health Service clinics,

military hospitals, referral centers, and the school's eye care center in Guanajuato, Mexico.

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

### Mission, Vision, and Goals

The **mission** of the School of Optometry is to protect, advance, and promote the vision, eyecare, and health of people worldwide by preparing individuals for careers in optometry, the ophthalmic industry, and vision science and by advancing knowledge through teaching, research, and service. This will be accomplished through the Doctor of Optometry, Optician/Technician, Residency, and Graduate Programs.

The **vision** of the School of Optometry is to be at the leading edge of vision care for the people of the world.

The **goals** of the School of Optometry focus on six areas:

1. Teaching. To be recognized for excellence and leadership in teaching.
2. Patient care. To supply students with sufficient numbers, diversity, and quality of patient experiences that will provide them with the clinical education to become efficient in performing patient care. At the same time, the goal is to provide timely, appropriate, and quality care to the patients.
3. Research. To increase the research activity of our faculty and students, to improve the research profile of the faculty and school, and to be a recognized leader in vision science and vision health research.
4. Service. To increase the service activity of our faculty, staff, and students; to be recognized nationally/internationally as a leader in service to the profession and vision science; and to have a level of service within the university and community to be recognized as outstanding citizens.
5. Facilities. To have state-of-the-art physical facilities and equipment that create an integrative approach to education, research, training, and service delivery.
6. Finances. To maintain funding that allows for sufficient faculty and staff, continued growth, up-to-date facilities, and the ability to take advantage of opportunities that arise.



## Purposes

The following are major purposes of the optometry program:

1. to qualify men and women for the practice of optometry;
2. to instill in the graduate a scientific and professional attitude;
3. to provide a background for the graduate's contribution to the civic and social welfare of the community;
4. to encourage and facilitate graduate and postgraduate study in optometry and vision science;
5. to encourage and facilitate research in the clinical aspects of optometry and in the fundamental sciences germane to optometry;
6. to contribute to the scientific and professional literature;
7. to train men and women as optometric technicians and/or opticians.

## Membership and Accreditation

The School of Optometry is a member of the Association of Schools and Colleges of Optometry ([www.opted.org](http://www.opted.org)) and is accredited by the 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 ([www.arbo.org](http://www.arbo.org)). Optometry students and graduates are eligible to take the annual examinations of the National Board of Examiners in Optometry ([www.optometry.org](http://www.optometry.org)). Optician/Technician Program graduates are eligible to take the registry examination of the American Optometric Association and may become certified by the American Board of Opticianry.

## Geographical Distribution of Students

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

## Degrees Offered

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

### Bachelor of Arts in the B.A./O.D. Program (B.A.)

A Bachelor of Arts degree is offered by the College of Arts and Sciences in conjunction with the School of Optometry. It requires fulfillment of the B.A. requirements of the College of Arts and Sciences. A student who is admitted

to the School of Optometry after completing 90 credit hours in the College of Arts and Sciences may apply 32 credit hours of courses in optometry as electives toward the B.A. degree, which is received in the initial major. The student must satisfy the college's specified requirements, including a concentration in the department of the college.

### Special Bachelor of Science in Biology for Three-Year Preoptometry Students (B.S.)

This program is designed for students admitted to the Indiana University School of Optometry after three years at Indiana University Bloomington. Students who have completed the fundamental skills and distribution requirements for the standard B.S. in Biology and at least 90 credit hours in courses offered by the College of Arts and Sciences may apply 8 credit hours of their first-year professional courses toward their major and 24 credit hours of their first-year professional courses as elective credit.

### Bachelor of Science in Optometry (B.S.)

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 prior to enrollment in the professional (O.D.) degree program. It requires satisfactory completion of all preoptometry courses and of the course work specified in the section of this bulletin entitled "Bachelor of Science in Optometry Degree."

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

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.

### Associate of Science in Optometric Technology/Opticianry (A.S.)

The School of Optometry offers a two-year Associate of Science degree in Optometric Technology/Opticianry. The Optician/Technician Program that leads to this degree is open to high school graduates as well as those with some college experience. Students completing the program will be qualified to work as optometric technicians and/or opticians, or may choose to pursue related careers as laboratory opticians, optical managers,

contact lens technicians, or ophthalmic sales and service representatives.

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

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 50 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.

### Application for Degrees

The School of Optometry awards A.S., 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.



# Professional Optometry Degree Program

## Admission

**Application for Admission** Qualified male and female applicants are sought from all racial, ethnic, socioeconomic, and cultural groups in order to enhance the diversity of the class. The ideal candidates for the Doctor of Optometry degree should have demonstrated high scholastic ability, leadership, and a record of community and volunteer service. Applicants are judged on scholastic ability (demonstrated by college grades, high school class rank, and admission and aptitude test scores). Written and oral communication skills are extremely important. The applicants' personal characteristics are evaluated through character references, interviews, amount and kind of extracurricular and leadership activities, work experience, and the narrative explaining why they chose optometry as a career.

An admission interview is arranged for those applicants with the greatest potential for success in completing the program. The interview is usually conducted at the School of Optometry.

The application period is September 1 through January 31; the application deadline is February 1. Interviewing begins in October and continues through April. A rolling admissions process is used, and the selection process is usually completed by the end of May. A new class begins each fall.

**Early Decision Process** The Indiana University School of Optometry has an early decision admission process that offers numerous advantages. If the Indiana University School of Optometry is the school that a talented student wants to attend, then an early decision can eliminate the necessity of application to multiple schools. Knowing the decision in advance gives peace of mind. A student admitted under the early decision procedure will receive regular communication from the school, can be involved in some school activities, and generally stay connected. In addition, an early decision provides more time for students to make financial arrangements to attend the Indiana University School of Optometry. Students seeking admission by this process are evaluated by the criteria listed above.

Students can apply anytime after they have completed 40 graded hours of credit with a minimum GPA of 3.60 and before September 1 of the year immediately prior to the year when the applicant wishes to enter. Thus, students can know whether they are accepted as early as the spring of their second year of college. Credits acquired by examination and through pass/fail courses do not count in the 40-hour total.

Admission to the School of Optometry under this process (after four years of undergraduate work) is conditional upon the following:

1. Maintaining a cumulative GPA of at least 3.30 throughout the remainder of undergraduate studies.
2. Obtaining a score of at least 320 on the Quantitative and Total Science sections of the Optometry Admission Test (OAT), with no section score on the OAT below 280. Students should plan to take the OAT for the first time in the spring of their second year of college. Students who do not achieve this level in the spring of their second year can retake the test again in October of their third year.
3. Completing all the prerequisite courses for admission to the School of Optometry as outlined in this bulletin.

Students are encouraged to complete a bachelor's degree prior to entering the School of Optometry. Some exceptional students, however, can enter the optometry program after three years of undergraduate work, which can decrease the total years of university study to seven. Early decision is also available for these students. These students should have a minimum GPA of 3.7 upon completion of 40 graded hours of credit.

Admission to the School of Optometry under this process (after three years of undergraduate work) is conditional upon the following:

1. Maintaining a GPA of at least 3.45 for the remainder of the undergraduate studies.
2. Obtaining a score of at least 330 on the Quantitative and Total Science sections of the Optometry Admission Test, with no section score below 300. Students should plan to take the OAT for the first time in the spring of their second year of college. Students who do not achieve this level in the spring of their second year can retake the test again in October of their third year.
3. Completing all the prerequisite courses for admission to the School of Optometry as outlined in this bulletin.

If a student who is conditionally admitted under an early decision plan for acceptance after three years of undergraduate study fails to meet the above conditions but meets the conditions for acceptance after four years, the student will be accepted after four years.

The School of Optometry will make an effort to accept no more than 50 percent of the class through the early decision program. Students applying for an early decision who are not accepted or who do not successfully complete the conditions of the early decision requirements will be considered with the normal pool of applicants. A negative decision on an early decision application in no way jeopardizes a student's chances for admission through the normal admission process.

## Functional Standards and Expectations

The Indiana University School of Optometry expects that admitted students will be able to meet all of the functional standards for optometric education established by the Association of Schools and Colleges of Optometry. These standards require that students possess appropriate abilities in the following areas:

- **Observation:** Students must be able to acquire a defined level of knowledge as presented through lectures, laboratories, patient interaction, and self-study.
- **Communication:** Students must be able to communicate effectively, efficiently, and sensitively with patients and their families, peers, staff, clinic faculty, and other members of the health care team.
- **Sensory and Motor Communication:** Students must possess the sensory and motor skills necessary to perform an eye examination, including emergency care.
- **Intellectual–Conceptual, Integrative, and Qualitative Abilities:** The student must be able to accurately and efficiently use such abilities as measurement, calculation, and reasoning analysis.
- **Behavioral and Social Attributes:** The student must possess the necessary behavioral and social attributes for the study and practice of optometry, such as ethical standards, empathy, and commitment to the optometric profession.

Qualified applicants to the School of Optometry who have disabilities that might hinder them in achieving these standards can, if they are admitted, receive reasonable accommodation from



the School of Optometry. This accommodation will be based on an evaluation of the disability conducted by Indiana University's Office of Disabled Student Services.

**Admission Test** Each applicant is required to take the Optometry Admission Test (OAT), which is designed to measure general academic ability and scientific knowledge. The test is given at various centers across the United States in October and February. Both the October and the February tests may be used for the next fall's admission. Information concerning the test and application forms may be obtained from Optometry Admission Testing Program, 211 E. Chicago Avenue, Suite 1846, Chicago, IL 60611; (312) 440-2693.

All applicants whose native language is not English are required to establish English proficiency. The Test of English as a Foreign Language (TOEFL) is preferred. For information concerning the TOEFL, write to TOEFL Educational Testing Service, P.O. Box 6151, Princeton, NJ 08541, or visit the TOEFL Web site at [www.toefl.org](http://www.toefl.org).

**Deposit Policy** Students admitted to the Doctor of Optometry program are required to pay an enrollment deposit of \$500. This fee is due no later than June 1 prior to the start of the fall semester. If the student enrolls in the IU School of Optometry, the deposit will be applied to the student's tuition. If the student does not enroll, the deposit is not refunded.



## Preoptometry Requirements

A total of 90 semester hours of college credit is required as a minimum for admission to the School of Optometry; however, a bachelor's degree is strongly recommended. Preoptometry 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 nonscience fields may find additional course work required. **Students may take their preoptometry course work at any accredited institution.**

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

Subject area	Min. sem. cr. hrs. req'd.	Comparable IU courses
Biology/Zoology		
Introductory, with lab	4	L112 and L113
Advanced (animal or development)	3	any 200 level or above
Microbiology, with lab	4	M250 and M255 (formerly M310 and M315)
Chemistry		
Inorganic	8	C105, C125, C106, C126
Organic, 2 courses: lecture and lab or 2 lectures	4	C341, C342, or C343
Mathematics		
Calculus	4	M211
Physics		
General	8	P201 and P202
Statistical Techniques and/or Experimental Design	3	K300

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

Subject area	Min. cr. hrs. req'd.	Comparable IU courses
Arts and Humanities <sup>1</sup>	6	
English <sup>2</sup>		
Composition	2	W131
Foreign Language <sup>3</sup>	6	
Psychology		
Introductory and above	4	P101 and P102 or above
Social and Historical Studies <sup>4</sup>	6	
Additional credits	<u>as needed</u>	
	Total 90	

Of the 90 credit hours, at least 20 must be at the 300-400 level. A maximum of 60 semester hours may be taken at a junior college.

<sup>1</sup>A minimum of two courses is required.

<sup>2</sup>A minimum SAT Verbal score of 670 or ACT English score of 32 will exempt the student (without credit) from the requirements. Other means of completing the composition requirement exist. Consult the College of Arts and Sciences Bulletin for details on these options.

<sup>3</sup>A minimum of two courses is required. This requirement for a 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. For a bachelor's degree from the College of Arts and Sciences, or from another division of the university, consult the appropriate bulletin for foreign language statements.)

<sup>4</sup>A minimum of two courses is required. For departments in this area, consult the College of Arts and Sciences Bulletin.

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

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

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.

**Transfer Admissions** The Indiana University School of Optometry admits students with advanced standing only when a vacancy exists and when the student would have met the Indiana University preoptometry requirements and standards for admission had he or she applied here originally. Students may lose credits in transferring and, for this reason, transfer is generally not recommended.

The student must have a minimum cumulative average of B in the optometry curriculum, be in good standing with his or her present institution, and have a compelling reason for wanting to transfer to Indiana University's School of Optometry. No deficiencies in the Indiana University preoptometry requirements may exist at the time of admission. Candidates for transfer must submit a statement of good standing from the dean of the school from which they are transferring. A regular application for admission should be submitted along with the statement of good standing and other documents specific to the transfer request.



## Optometry 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.

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

Students admitted to 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 must be satisfied by the student seeking this degree:

1. 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; that may include the allowable credits from the associate degree program of the School of Optometry (see 14 below).
2. A minimum cumulative grade point average of 2.00.
3. A minimum of 30 credit hours in courses at the 300 level or above.
4. 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 and that may include allowable credits at the 200 level (see 14 below).
5. Mathematics or Psychology K300 (3 cr.) or an equivalent course in statistical techniques or experimental design.
6. 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.
7. Courses taken on a Pass/Fail basis can be applied **only** as electives in meeting the degree requirements. The limit is a total of 24 credit hours with one course allowed per semester.

8. Not more than 60 credit hours earned in accredited junior colleges may be applied toward the degree.
9. Not more than 10 credit hours earned through correspondence study and/or special credit examination may be applied toward the degree, except by special permission of the dean.
10. 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.
11. The English composition requirement is W131 or equivalent.
12. The foreign language requirement is 6-8 hours of college credit in a single foreign language or two years of a single foreign language in high school, with a minimum average grade of C (2.00). This requirement also may be met by a placement examination.
13. The required 6 credit hours of arts and humanities, 6 credit hours of social and historical studies, and 24 credit hours in natural and mathematical science should be taken from courses equivalent to those offered by the College of Arts and Sciences. (See "Approved Distribution Courses" in the College of Arts and Sciences Bulletin.)
14. Students enrolled in optometry courses that include material also covered in courses of the optometry associate degree programs may earn credit in recognition of the partial overlap.

## Optometry Curriculum

The curriculum includes instruction in all of the clinical and practical phases of optometry as well as in the theoretical and fundamental aspects of vision science. It requires four years of professional degree courses, including at least a three-week summer assignment prior to the third year.<sup>1</sup> The university schedules two regular academic semesters and two summer sessions. The regular fall semester includes 14 weeks and two days of instruction plus one week for final examinations; the spring semester includes 15 weeks of instruction plus one week for final examinations. Most optometry courses are scheduled for a full academic semester. Some, however, are scheduled for three, six, or eight weeks, and will be scheduled back-to-back with other courses that will be taken in the remaining weeks of the semester. The first summer session lasts six weeks; the second summer session lasts eight weeks.

<sup>1</sup>Students in the final year of the program will spend 12 weeks at each of their four clinic assignments (V885, V887, V888, and the Fourth Clinical Assignment). Three of these four assignments are at various external locations.

**First Year**

<b>First Semester</b>	<b>Cr.</b>
V511 Human Gross Anatomy	4.0
V514 Neuroanatomy	1.5
V515 Medical and Ocular Biochemistry	4.0
V517 Histology	3.0
V521 Geometric Optics I	3.5
V540 Ocular Microbiology I	1.0
V550 The Clinical Interview and Health History Taking	1.0
V578 Public Health Policy and the Optometric Profession	2.0
<b>Total</b>	<b>20.0</b>

<b>Second Semester</b>	<b>Cr.</b>
V512 Ocular Anatomy	2.0
V516 Ocular Physiology	2.5
V522 Geometric Optics II	3.5
V542 Systemic Physio-Pharmacology I	4.0
V543 General Pathology	5.0
V551 Clinical Optometry I	2.0
V553 Diagnostic Procedures I	3.5
<b>Total</b>	<b>22.5</b>

**Second Year**

<b>First Semester</b>	<b>Cr.</b>
V631 Ophthalmic Optics I	3.0
V642 Systemic Physio-Pharmacology II	5.0
V652 Clinical Optometry II	2.0
V654 Diagnostic Procedures II	3.5
V663 Physiological Optics I: Visual Optics	3.5
V665 Physiological Optics III: Ocular Motility	2.5
<b>Total</b>	<b>19.5</b>

<b>Second Semester</b>	<b>Cr.</b>
V632 Ophthalmic Optics II	2.5
V633 Contact Lenses I	3.0
V644 Ocular Disease I	3.0
V646 Ocular Pharmacology	3.0
V648 Neurophysiology of Vision	1.0
V656 Diagnostic Procedures III	2.0
V664 Physiological Optics II: Visual Function	3.0
V666 Physiological Optics IV: Binocular Function	2.0
V670 Epidemiology and Biostatistics for Optometry	1.0
<b>Total</b>	<b>20.5</b>

<b>Summer Session</b>	<b>Cr.</b>
V680 Introduction to Clinic	2.5
<b>Total</b>	<b>2.5</b>

**Third Year**

<b>First Semester</b>	<b>Cr.</b>
V745 Ocular Disease II	3.0
V748 Principles and Methods of Physical Assessment and Medicine	3.0
V752 Contact Lenses II	3.0
V755 Basic Visual Therapy	3.0
V756 Clinical Assessment I	2.0
V775 Legal and Professional Aspects of Optometry	2.0
V786 Optometry Clinic <sup>1</sup>	2.0
V787 Optometry Clinic <sup>1</sup>	2.0
<b>Total</b>	<b>20.0</b>

<b>Second Semester</b>	<b>Cr.</b>
V713 Ocular Microbiology II	2.0
V746 Ocular Disease III (Neuro-Optometry)	2.0
V749 Applied Ocular Therapeutics	3.0
V751 Low Vision and Rehabilitation	1.0
V753 Optometric Gerontology and Geriatrics	1.0
V757 Clinical Assessment II	1.0
V774 Socioeconomic Aspects of Optometry	2.0
V781 Pediatric Optometry	1.5
V782 Visual Perception and Learning Disabilities	1.5
V788 Optometry Clinic <sup>1</sup>	2.0
V789 Optometry Clinic <sup>1</sup>	2.0
<b>Total</b>	<b>19.0</b>

<b>Fourth Year<sup>2</sup></b>	<b>Cr.</b>
V885 Optometry Clinic (Bloomington)	10.0
V887 Extension Clinic (Indianapolis)	10.0
V888 External Clinic (Fourth Clinical Assignment): V885, V887, or V888	10.0
V889 Special Projects	2.0
<b>Total</b>	<b>42.0</b>

<b>Total</b>	<b>166.0</b>
<b>Electives</b>	<b>Cr.</b>
V569 Selected Studies	arr.
V758 Advanced Visual Therapy	2.0
V884 Optometry Clinic—Arranged	5.0
<b>Clinical Improvement</b>	<b>Cr.</b>
V780 Clinical Skills Enhancement—3rd year	2.0
V880 Clinical Skills Enhancement—4th year	5.0

<sup>1</sup>Elementary school vision-screening program assignments will be arranged.  
<sup>2</sup>Students in the final year of the program will spend 12 weeks at each of their four clinic assignments (V885, V887, V888, and the Fourth Clinical Assignment). Three of these four assignments are at various external locations.

**Academic Regulations**

**Registration and Counseling** Designated staff members of the School of Optometry's Office of Student Administration serve as advisors to optometry students in the school. Students are required to meet with their advisors prior to registration to arrange their programs. All students are required to register at the appointed time each semester.

**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.

**Withdrawals from Courses** Withdrawals during the first eight weeks of a semester, first four weeks of a half-semester course, or first two weeks of a summer session are automatically marked W (Withdrawn). Withdrawals that would reduce a student's enrollment below 12 credit hours ordinarily will not be authorized.

Petitions for withdrawal after the periods specified above will not be authorized by the dean except for urgent reasons related to extended illness or equivalent distress. The desire to avoid a low grade is not an acceptable reason for withdrawal from a course.

If a student withdraws with the dean's consent, the grade in the course will be W if the student is passing at the time of withdrawal and F if the student is not passing. The grade will be recorded on the date of withdrawal. Failure to complete a course without authorized withdrawal will result in the grade F.

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

No more than one grade of D (e.g., D+, D, or D-) in each of the following academic areas may be counted toward graduation:  
 I V511 Human Gross Anatomy, V512 Ocular Anatomy, V514

- Neuroanatomy, V515 Medical Biochemistry, V516 Ocular Physiology, V517 Histology, V540 Ocular Microbiology I, V542/V642 Systemic Physio-Pharmacology I and II, V543 General Pathology, V646 Ocular Pharmacology, and V713 Ocular Microbiology II
- II V521/V522 Geometric Optics I and II, V631/V632 Ophthalmic Optics I and II, V648 Neurophysiology of Vision, V663 Visual Optics, V665 Ocular Motility, V664 Visual Function, and V666 Binocular Function
- III V578 Public Health Policy and the Optometric Profession; V633/V752 Contact Lenses I and II; V644/V745/V746 Ocular Disease I, II, and III; V670 Epidemiology and Biostatistics for Optometry; V748 Principles and Methods of Physical Assessment; V749 Applied Ocular Therapeutics; V751 Low Vision; V753 Optometric Gerontology and Geriatrics; V755 Visual Therapy; V774 Socioeconomic Aspects of Optometry; V775 Legal and Professional Aspects of Optometry, V776 Environmental Optics; V781 Pediatric Optometry; and V782 Visual Perception and Learning Disabilities
- IV V550 The Clinical Interview and Health History Taking; V551/V652 Clinical Optometry I and II; V553/V654/V656 Diagnostic Procedures I, II, and III; V680 Introduction to Clinic; V756 Clinical Assessment, V757 Clinical Assessment II, V780 Clinical Skills Enhancement—3rd Year; V786/V787/V788/V789 Optometry Clinic; V885 Optometry Clinic Bloomington; V887 Extension Clinic Indianapolis; V888 External Clinic; V884 Optometry Clinic—Arranged; V880 Clinical Skills Enhancement—4th Year; and V889 Special Projects
- 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.

#### 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

It is the intent of the School of Optometry that its professional students be able to graduate after four years of instruction (but in six years at the maximum). Although primary responsibility rests with the student, the school will work to help all students achieve good academic standing and will seek out and attempt (within limits) to provide remedial help for students who are having academic difficulties.

**Good Standing** The minimum standard for academic good standing is a semester and cumulative grade point average (GPA) of 2.00, that is, a C average, which is also the minimum standard for graduation from Indiana University and the School of Optometry. A student who has repeated a course and received a grade of D+ or below both times is not in good standing, irrespective of the semester and cumulative GPA (see below: Ineligible to Continue, Item 4). Included in the final GPA presented for graduation may be no more than one grade of D+ or below in each of the academic areas listed under "Grades."

**Probation** Academic probation results when the semester or cumulative GPA is below 2.00.

**Academic Review** If any student is placed on probation or receives grades of D+ or below, the Academic Review Committee will make recommendations about help and remedial work which will make it possible for the student to achieve better academic performance. If a student has received two or more grades of D+ or below in any one academic area defined under "Grades," the committee will decide which course may count towards graduation and which must be repeated. 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.

**Clinical Competence** At the end of the second year, students are required to pass a competency examination in preparation for the course V680 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 must petition the Academic Review Committee in a timely way for permission to retake it a third time. The chair of competency examinations will then consult with faculty and make a written recommendation to the Academic Review Committee. A student who fails it three times will be ineligible to continue.

**Remediation** In the event that an intern receives a D grade in any clinical rotation in the third or fourth professional year, the clinic faculty will offer a remedial program to assist the intern in addressing areas of weakness and improving clinical and/or didactic skills.

If an intern receives a second D grade in any third- or fourth-year clinic course, the student must accept remediation and must enroll in either V780 Clinical Skills Enhancement–3rd Year or V880 Clinical Skills Enhancement–4th Year. A student who fails to complete V780 or V880 with a grade of C– or better 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*.

**National Board Requirement** Effective with the class that begins in 2001, students must pass Part I of the National Board of Examiners examination before being allowed to start their fourth-year clinical rotations. Failure to pass Part I will result in the student being placed on probation until it is passed. Failure to pass Part I after four attempts will result in dismissal from the School of Optometry.

**Ineligible to Continue** A student is ineligible to continue when one or more of the following conditions hold:

1. the student earns lower than a 1.00 GPA for any semester, regardless of cumulative GPA;
2. the student earns both (a) lower than a 2.00 GPA in a semester and (b) lower than a 2.00 GPA in the following semester;
3. the student's cumulative GPA after three semesters is lower than 2.00;

4. the student has repeated a course and received a grade of D+ or below both times;
5. the student has failed the clinical competency examination two times and is not permitted to take it a third time, or fails it a third time;
6. the student fails a clinical course after remediation;
7. the student has received consecutive grades of F for two rotations during the fourth year;
8. the student has failed to complete the professional curriculum in six years;
9. the student has failed to pass Part I of the National Board exam after four attempts and prior to the beginning of fourth-year clinical rotations.

These conditions indicate unsatisfactory progress and could result in automatic dismissal.

**Dismissal and Reinstatement** A student dismissed for the first time may petition the Academic Review Committee for reinstatement without delay. If granted, the student will be expected to attain a minimum GPA of 2.00 in the first semester of reinstatement. A student whose petition has been denied may not petition for reinstatement until the lapse of at least one semester of a regular academic year.

A student who is dismissed for the second time may not petition for reinstatement until the lapse of at least one regular academic year. Depending on the circumstances, a dismissed student may be allowed to retake specific courses in which the previous grades were low, but unless officially reinstated to the curriculum, this student may not take courses that represent progress toward the degree. The Academic Review Committee may recommend additional conditions or restrictions to precede reinstatement of a student.

**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.

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

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 in Optometry**

The number of credit hours given a course is indicated in parentheses following the course title. The abbreviation "P" refers to the course prerequisite(s). The abbreviation "C" refers to courses that are corequisite(s). Unless otherwise noted, the prerequisites for all courses include enrollment in the School of Optometry and permission of the instructor.

#### **V511 Human Gross Anatomy (4 cr.)**

Regional study of anatomy using human specimens. Emphasizes head and neck, axilla, abdomen, and thorax.

#### **V512 Ocular Anatomy (2 cr.) P: V511.**

A detailed study of the normal anatomy and embryology of the eye and its adnexa. The organization of the various components of the eye is studied at the light and electron microscopic level and this organization is related to the molecular structure where it is known.

**V514 Neuroanatomy (1.5 cr.)** P: V511.

Functional anatomy of the human brain, with emphasis on the visual system.

**V515 Medical and Ocular Biochemistry (4 cr.)** Medical and biochemical principles that relate to understanding and treatment of disease.

**V516 Ocular Physiology (2.5 cr.)** C: V512.

Vegetative physiology of the eye, with attention to the chemical constitution, intermediary metabolism, regulation of hydration and intraocular pressure, transparency of the ocular components, and retinal physiology.

**V517 Histology (3 cr.)** Microscopic anatomy of human cells, tissues, and organs.

**V521 Geometric Optics I (3.5 cr.)** Optics of lenses, prisms, and mirrors; properties of light.

**V522 Geometric Optics II (3.5 cr.)**

P: V521. A continuation in the study of optics of lenses, prisms, and mirrors; properties of light.

**V540 Ocular Microbiology I (1 cr.)**

Biology of viruses, bacteria, fungi, and other organisms that infect ocular tissues. Host response to infections and epidemiology will be presented.

**V542 Systemic Physio-Pharmacology I (4 cr.)** P: V515.

Integrated pharmacology and physiology of organ systems, including cellular-level activity and intercellular communication.

**V543 General Pathology (5 cr.)** P: V511

and V517. General concepts in inflammation, immunology, neoplasia. Infectious, genetic, systemic diseases and diseases of organs and systems studied.

**V550 The Clinical Interview and Health History Taking (1 cr.)**

Introduction to interview techniques, health history content, and medical record documentation as applies to the optometric setting. The course will include optometric and medical terminology, interview techniques for special populations, legal aspects of medical records, and differential diagnosis of visual symptoms. Requirements include completion of outside health history assignments.

**V551 Clinical Optometry I (2 cr.)**

Introduction to visual examination techniques and evaluation of results as they relate to subjective symptoms, visual performance, and health. Study of the principles involved in the measurement and treatment of ametropia, oculomotor imbalances, and associated conditions.

**V553 Diagnostic Procedures I (3.5 cr.)**

P: V521. C: V543 and V551. Vision examination techniques, theory and application of instrumentation, and ocular diagnostic procedures.

**V569 Selected Studies (elective, cr. arr.)**

Items of current scientific interest. Consideration given to student's special interests. May include writing of abstracts and reviews of current vision science literature. May be repeated for credit with permission of instructor.

**V578 Public Health Policy and the Optometric Profession (2 cr.)**

Introduction to the fundamentals and principles of public health and epidemiology; 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 methods of epidemiological investigation and study design, plus considerations of quality, efficiency, economics, and regulation of vision and health care delivery and utilization.

**V631 Ophthalmic Optics I (3 cr.)** P: V521

and V522. Design and application of ophthalmic materials; study of the physical and optical characteristics of ophthalmic single vision and multifocal lens designs, ophthalmic prism, absorptive lenses, and the measurement and fitting of lenses and frames. Includes related laboratory exercises.

**V632 Ophthalmic Optics II (2.5 cr.)** P: V521

and V522. A continuation in the design and application of ophthalmic materials; study of the physical and optical characteristics of ophthalmic single vision and multifocal lens designs, ophthalmic prism, absorptive lenses, and the measurement and fitting of lenses and frames. Includes related laboratory exercises.

**V633 Contact Lenses I (3 cr.)**

Theory and practice of contact lenses. Includes contact lens terminology, ocular anatomy and physiology as it applies to contact lens wear, general principles of lens materials, lens design, contact lens optics, lens care systems, the prefitting examination, basic fitting principles, and aftercare problems as they apply to contact lens practice.

**V642 Systemic Physio-Pharmacology II (5 cr.)** P: V542.

Integrated pharmacology and physiology of organ systems, including blood, immune, digestive, renal, respiratory, circulatory, and central nervous systems.

**V644 Ocular Disease I (3 cr.)** P: V543.

A detailed discussion of the signs, symptoms, differential diagnosis, and management of ocular diseases of the anterior segment.

**V646 Ocular Pharmacology (3 cr.)**

P: V642. Medications used in treatment of ocular disease. Ocular effects of systemic medications.

**V648 Neurophysiology of Vision (1 cr.)**

Introduction to the functional organization of the visual system and the physiological basis of vision. This course treats the visual system as a biological image processor to reveal how the structure and function of the retina and brain determine visual performance and constrain the quality of vision.

**V652 Clinical Optometry II (2 cr.)**

P: V551. Introduction to visual examination techniques and evaluation of results as they relate to subjective symptoms, visual performance, and health. Principles involved in the measurement and treatment of ametropia, oculomotor imbalances, and associated conditions are studied.

**V654 Diagnostic Procedures II (3.5 cr.)**

P: V553, V543, V551. C: V642 and V652. Advanced diagnostic techniques stressing differential diagnosis, treatment, and appropriate interpretation. Emphasis on binocular vision examination techniques, theory, and application of instrumentation along with advanced disease detection.

**V656 Diagnostic Procedures III (2 cr.)**

P: V553 and V654. C: V644 and V646. Advanced clinical analysis, procedures, and protocols for examinations of patients in the clinical setting, and comprehensive eye examinations with scheduled patients. Requirements include completion of outside practice examinations, clinical observations by arrangement, and the Clinical Competency Examination.

**V663 Physiological Optics I: Visual Optics (3.5 cr.)** P: V522.

The eye as an optical instrument.

**V664 Physiological Optics II: Visual Function (3 cr.)**

The basic aspects of monocular vision, including light and dark adaptation, color vision, and both spatial and temporal resolution. The science of measuring visual performance and its application to clinical optometry.

**V665 Physiological Optics III: 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.

**V666 Physiological Optics IV: Binocular Function (2 cr.)** Binocular sensory mechanisms of vision. Summary of the geometry of 3-dimensional space and stereo vision, underlying neuroanatomy and physiology of binocular vision, prerequisites for normal stereopsis, and commonly encountered anomalies of binocular vision.

**V670 Epidemiology and Biostatistics for Optometry (1 cr.)** Introduction to Epidemiology and Biostatistics, principles of epidemiological inquiry and research design, and the application of statistical methods to clinical data.

**V680 Introduction to Clinic (2.5 cr.)** P: V551, V553, V631, V632, V633, V643, V644, V652, V654, V656, and a passing score on the Clinical Competency Examination in V656. 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.

**V713 Ocular Microbiology II (2 cr.)** P: V540. Morphology, physiology, identification of the microflora of the anterior segment of the eye and adnexa. Culture and sensitivity testing procedures. Clinical manifestations of microorganisms of the eye and ocular adnexa.

**V745 Ocular Disease II (3 cr.)** P: V644. A detailed discussion of the signs, symptoms, differential diagnosis, and management of ocular diseases of the posterior segment.

**V746 Ocular Disease III (Neuro-Optometry) (2 cr.)** P: V745. A detailed discussion of the signs, symptoms, differential diagnosis, and management of neurological diseases affecting the eye.

**V748 Principles and Methods of Physical Assessment and Medicine (3 cr.)** P: V680 or comparable clinical experience. Comprehensive health history, 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; principles of CPR and emergency office procedures.

**V749 Applied Ocular Therapeutics (3 cr.)** P: V646, V754. The use, in clinical optometric practice, of legend drugs, lasers, and other

therapeutic devices in the treatment and management of ocular disease.

**V751 Low Vision and Rehabilitation (1 cr.)** P: V652 and V654. Special examination procedures and patient management techniques for the visually impaired. Evaluations and prescriptions of optical, nonoptical, and electronic devices. Overview of rehabilitative services.

**V752 Contact Lenses II (3 cr.)** P: V633. 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.

**V753 Optometric Gerontology and Geriatrics (1 cr.)** The purpose of the course is to impart knowledge and understanding fundamental to comprehensive and primary vision care of older adults. Discussions will include the functional consequences of vision and aging, interdisciplinary aspects of care and community resources.

**V755 Basic Visual Therapy (3 cr.)** Diagnosis, prognosis, and orthoptic treatment of anomalies of binocular vision, including the optical, motor, sensory, integrative, and perceptual systems.

**V756 Clinical Assessment I (2 cr.)** P: V680. C: V745. Introduction to clinical reasoning and formulation of differential diagnostic protocols for investigation of various visual problems.

**V757 Clinical Assessment II (1 cr.)** P: V756. A continuation in the clinical reasoning and formulation of differential diagnostic protocols for investigation of various visual problems.

**V758 Advanced Visual Therapy (elective, 2 cr.)** Advanced levels of topics dealt with in V755 Basic Visual Therapy.

**V774 Socioeconomic Aspects of Optometry (2 cr.)** Optometry education; prevalence of visual anomalies; care of the blind, near-blind, and low-income groups; vision cults and propaganda; optometric careers; practice management.

**V775 Legal and Professional Aspects of Optometry (2 cr.)** Legal, ethical, and professional concerns of optometric practice, including legal decision making, the regulatory role of government and administrative agencies, licensing procedures, professional liability and malpractice, ethical considerations and

the legal rights of patients in optometric practice.

**V780 Clinical Skills Enhancement—3rd year (2 cr.)** Increased supervision provided by clinical faculty for students having difficulty in areas of clinical performance.

**V781 Pediatric Optometry (1.5 cr.)** P: V755. Specialized diagnosis and management strategies for the infant and child. Topics to include refractive and binocular vision anomalies, disease, and pharmacology.

**V782 Visual Perception and Learning Disabilities (1.5 cr.)** P: V755. Optometrist's role in assessment and management of visual perception, learning disabilities, and reading problems. Communication with parents, educators, and other professionals will be emphasized.

**V786 Optometry Clinic (2 cr.)** P: V680. 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.

**V787 Optometry Clinic (2 cr.)** P: V786. A continuation of V786. 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.

**V788 Optometry Clinic (2 cr.)** P: V787. 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.

**V789 Optometry Clinic (2 cr.)** P: V788. Continuation of V788. 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.

**V880 Clinical Skills Enhancement—4th year (5 cr.)** Increased supervision provided by clinical faculty for students having difficulty in areas of clinical performance.

**V884 Optometry Clinic—Arranged (5 cr.)** P: V680, V786, V787, V788, and V789, 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.

**V885 Optometry Clinic (10 cr.)<sup>1</sup>** P: V680, V786, V787, V788, and V789, 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.

**V887 Extension Clinic (10 cr.)<sup>1</sup>** P: V680, V786, V787, V788, and V789, 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.

**V888 External Clinic (10 cr.)<sup>1</sup>** P: V680, V786, V787, V788, and V789, 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.

**V889 Special Projects (2 cr.)** Research and writing of a paper in a style suitable for publication in a scientific journal.

## Student Honors and Awards

### Graduation with Honors

The Doctor of Optometry degree is awarded *with honors* to students who have demonstrated laudatory scholarship in their professional studies. Similarly, the Bachelor of Science in Optometry degree is granted *with distinction*. The specific honor is noted on the graduate's diploma. The cumulative grade point averages and the corresponding citations are 3.70, with honors; 3.80, with high honors; 3.90, with highest honors. Corresponding levels prevail for the B.S. and B.A. degrees.

### Awards and Recognitions

Each year, many awards are presented to School of Optometry students. Periodically, students will receive notices regarding eligibility and application deadlines. Inquiries should be directed to the School of Optometry's Office of Student Administration or to the faculty chairperson of the Awards and Honors Committee. It is especially important for students to explore grants, scholarships, or other financial support available from their home states.



The following list describes a representative sample of the awards; it should be noted, however, that the actual list of awards may vary from year to year and that not all awards are automatically presented each year. The awards are listed according to eligibility categories.

#### First-Year O.D. Students

*G.K. Optical, Duffens Optical, Diversified Ophthalmics, and Walman Optical: Student Indiana Optometric Association Awards*

*Indiana Affiliate of the American Foundation for Vision Awareness: Jane Hofstetter Award*

#### Third-Year O.D. Students

*Indiana University Bloomington: Chancellor's Scholar*

*Jack W. Bennett, O.D., Humanitarian Award*

*Kentucky Optometric Foundation Scholarship*

*Varilux Student Grant Award*

*Vision Service Plan Scholarships*

*Wal-Mart Optical Division Educational Scholarship*

#### Fourth-Year O.D. Students

*Alcon Scholarship Award*

*Bausch and Lomb: Great Start Award*

*Beta Sigma Kappa: Silver Medal Award*

*Corning Low Vision Award*

*David H. Kolack, O.D., Award*

*Designs for Vision, Inc.: William Feinbloom Low Vision Award*

*Essilor Corneal Reflection Pupilometer Award*

*Indiana Chapter of the American Academy of Optometry: John P. Davey Memorial Award and Roy E. Denny Award*

*Indiana University Optometric Student Association Past President's Award*

*Jack W. Bennett, O.D., Humanitarian Award*

*Marchon Eyewear Practice Management Award*

*Rigid Gas Permeable Lens Institute Award*

*Vistakon: Dr. Henry Hofstetter Scholarship Award*

*Vistakon: Excellence Award*

*Wal-Mart Optical Division Educational Scholarship*

## Competitions and Grants

*American Optometric Association: Dr. Seymour Galina Grant*

*American Optometric Association: Student Leadership Award*

*American Optometric Foundation: Corning Scholarship*

*American Optometric Foundation: Dr. Gary Gross Scholarship Award*

*American Optometric Foundation: O.P. "Pete" Lyman Jr. Scholarship*

*American Optometric Student Association/CIBA Vision Future Leadership Grant*

*American Public Health Association: Vision Care Outstanding Student Award*

*Beta Sigma Kappa Research Grant*

*Heart of America Contact Lens Society*

*IU Chapter of the National Optometric Student Association: Outstanding Student Award*

*Optometric Extension Program Foundation: Senior Students and Recent Graduate Research Grant Program*

Many state affiliates of the American Foundation for Vision Awareness offer scholarships to students who are residents of that state. In addition to the awards listed here, scholarships, fellowships, and loans are available through the School of Optometry's financial aid administrator.

## Student Organizations

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

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

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

**Beta Sigma Kappa** A chapter of this international honorary optometric society was established at Indiana University in 1983. The organization is open to

<sup>1</sup>V885, V887, and V888 may be taken in nonsequential order.





optometry students with outstanding scholastic achievements and is dedicated to research and exemplary optometric practice.

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

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

## Financial Aid

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

In order to be eligible for federal financial aid, a student must:

- be a U.S. citizen or eligible non-citizen
- 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 the Web site [www.indiana.edu/~sfa](http://www.indiana.edu/~sfa).

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

- Federal Subsidized Stafford/Ford Direct Loan
- Federal Unsubsidized Stafford/Ford Direct Loan
- Federal Perkins Loan
- Federal Health Professions Loan (students must provide parent data on the FAFSA to be considered for this loan)

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 Work-Study, Veterans Benefits, and Military Health Professions scholarships. In addition, other options include:

- School of Optometry Emergency Assistance Program
- Teaching Assistantships
- IU Emergency Loans
- Educational Opportunity Fellowships
- Graduate Minority Fellowships
- Diversity Enhancement Fee Scholarships
- Wildermuth Fee Scholarships

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 Melanie Turner, School of Optometry financial aid administrator, with questions or concerns at School of Optometry, 800 E. Atwater Avenue, Indiana University, Bloomington, Indiana 47405-3680; (812) 856-4478; e-mail [iuoptfa@indiana.edu](mailto:iuoptfa@indiana.edu). She is available on Tuesdays and Fridays for in-person appointments. Information regarding other sources of financial aid is available on the School of Optometry's Web site at [www.opt.indiana.edu/admis/fa.htm](http://www.opt.indiana.edu/admis/fa.htm).

# Indiana University School of Optometry Affiliated Residencies

Indiana University directs all affiliated residencies through the office of the Director of Clinics, School of Optometry, Indiana University, 800 E. Atwater Avenue, Bloomington, IN 47405-3680; (812) 855-4979. For information or applications, please contact the individual program coordinator or the office of the director of clinics. Information can also be found at the school's Web site at [www.opt.indiana.edu/residenc/residenc.htm](http://www.opt.indiana.edu/residenc/residenc.htm).

## Binocular Vision/Pediatric Optometry<sup>1</sup>

Indiana University School of Optometry  
800 E. Atwater Avenue  
Bloomington, IN 47405-3680  
(812) 855-8241  
Program Coordinator: Bill B. Rainey,  
O.D., M.S., F.A.A.O.  
Positions Available: 1



## Contact Lens and Cornea

Indiana University School of Optometry  
800 E. Atwater Avenue  
Bloomington, IN 47405-3680  
(812) 855-1044  
Program Coordinator: Colleen Riley,  
O.D., M.S.  
Positions Available: 1

## Low Vision

Indiana University School of Optometry  
800 E. Atwater Avenue  
Bloomington, IN 47405-3680  
(812) 855-4979  
Program Coordinator: Debra  
McConnaha, O.D.  
Positions Available: 1



## Ocular Disease

Faust Eye Center  
711 Gardner Drive  
Marion, IN 46952  
(800) 822-1774  
Program Coordinator: Richard B.  
Mangan, O.D.  
Positions Available: 1

Huntington VA Medical Center  
Optometry Service (123)  
1540 Spring Valley Drive  
Huntington, WV 25704  
(304) 429-6755 x2696  
Program Coordinator: Matthew G.  
Cordes, O.D.  
Positions Available: 2

## Primary Eye Care

Danville VA Medical Center  
1900 East Main Street  
Danville, IL 61832  
(217) 442-8000 x5403  
Program Coordinator: Stephen Boyer,  
O.D.  
Positions Available: 1

Lexington VA Medical Center  
2250 Leestown Road  
Lexington, KY 40511  
(859) 233-4511 x3604  
Program Coordinator: James A. Rakes,  
O.D., F.A.A.O.  
Positions Available: 1

<sup>1</sup>A program combining a master's degree in vision science and a binocular vision/pediatric optometry residency is available. Coordinator for the combined program is David A. Goss, O.D., Ph.D., F.A.A.O.; Indiana University School of Optometry, 800 E. Atwater Avenue, Bloomington, IN 47405-3680; (812) 855-4475.

# Graduate Program in Vision Science

Vision scientists study the eye and how we see. Their work includes the study of biochemistry, biophysics, 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 courses and depth through original research leading to a thesis or a dissertation.

## Admission Requirements

The degree 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) in science is required, and this should include coursework appropriate to the area of vision science in which the student wishes to pursue research.

## Degree Requirements

### Master of Science Degree

**Course Requirements** A total of 30 credit hours is required, of which 15 must be didactic hours in vision science or in approved substitutes. Students holding the O.D. degree, or enrolled in the O.D. program, may apply up to 4 credit hours to this requirement of 15 didactic credit hours.

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

### Doctor of Philosophy Degree

Students must demonstrate breadth of knowledge in vision science. This requirement is normally fulfilled by completion of V700 and V701 with a minimum grade of B in each course.

Each semester, students are required to register for and participate in the weekly Vision Science Seminar (V765) known as "Oxyopia." Participation implies that the seminar will be taken for credit and that the student will make an annual presentation.

**Course Requirements** A total of 90 credit hours is required, of which 30 must come from didactic courses. 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.

**Qualifying Examination** A student will be nominated to candidacy for the Ph.D. degree after successful completion of a written and oral qualifying examination. These examinations are administered by the student's advisory committee. The written component is the dissertation proposal, and can be in the form of a grant application. The requirement of 30 credit hours of didactic course work must be fulfilled prior to the qualifying examination. Participation in the Ph.D. program will be terminated if a student fails the qualifying examination twice.

**Dissertation Requirements** Students are encouraged to start working on a research project early in the program, preferably before the end of the first year. A dissertation proposal should be submitted to the advisory committee at the end of the second year. After completion of the written dissertation, it is presented and defended at a scheduled seminar meeting. The dissertation must be approved by the student's research committee.



## Courses in Vision Science

The number of credit hours given a course is indicated in parentheses following the course title. The abbreviation "P" refers to the course prerequisite(s).

**V595 First-Year Research (1-5 cr.)**

**V695 Second-Year Research (1-5 cr.)**

**V700 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.

**V701 Introduction to Vision Science II (4 cr.)** The second of a two-semester sequence of courses on vision science. V700 and this course constitute a breadth requirement for Ph.D. students in Vision Science.

**V723 The Eye as an Optical Instrument (4 cr.)** P: V663 or equivalent.

**V754 The Motility of the Eye (4 cr.)** P: V665 or equivalent. Quantitative and qualitative study of eye movements and myologic reflexes, monocular and binocular, and related phenomena.

**V765 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.

**V768 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.

**V783 Monocular Sensory Aspects of Vision (4 cr.)** P: V664 or equivalent. Analysis of visual stimulus and its perception in color, form, brightness, motion, etc.

**V791 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.

**V795 Third-Year Research (1-5 cr.)**

**V799 M.S. Thesis Research (1-10 cr.)**

**V801 Basic Experimental Design and Methods in Vision Science (3 cr.)** An introduction to basic research skills in vision science.

**V899 Ph.D. Dissertation Research (1-12 cr.)**

## Cross-Listed Courses

**A610 Comparative Neuroanatomy (2 cr.)**  
*Medical Sciences Program, School of Medicine*

**L586 Molecular Analysis of Cell Biology (3 cr.)**  
*Department of Biology, College of Arts and Sciences*

**P553 Advanced Statistics in Psychology I (3 cr.)**  
*Department of Psychology, College of Arts and Sciences*

**P554 Advanced Statistics in Psychology II (3 cr.)**  
*Department of Psychology, College of Arts and Sciences*

**P564 Psychophysics (3 cr.)**  
*Department of Psychology, College of Arts and Sciences*

**P566 Psychophysiology of Vision (3 cr.)**  
*Department of Psychology, College of Arts and Sciences*

## Financial Aid and 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 Chancellor's Fellowship, Women in Science Graduate Fellowship, and the Ronald E. McNair Graduate Fellowship. The Chancellor's Fellowship has an

annual stipend of \$20,000. To be considered for one of these fellowships, a student should submit an Indiana University Graduate School Application Form for Admission and Financial Aid by January 15. The application form is available from the Indiana University School of Optometry Office of Student Administration or from the University Graduate School, Kirkwood Hall 111, Indiana University, Bloomington, IN 47405-3901; (812) 855-8853; e-mail [grdschl@indiana.edu](mailto:grdschl@indiana.edu).

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; [www.ezell.org](http://www.ezell.org). The application deadline is April 10. Application forms for the annual \$3,000 Fellowship of the Foundation for Vision Awareness (AFVA), which is awarded to worthy individuals pursuing graduate study, may be obtained from the American Optometric Association, 243 N. Lindbergh Boulevard, St. Louis, MO 63141; (800) 927-2382; [www.afva.com](http://www.afva.com). The application deadline is March 1.

For other financial aid, grant-in-aid, and fellowships refer to the University Graduate School Bulletin. Information is also available on the School of Optometry Web site at [www.opt.indiana.edu/admis/fa.htm](http://www.opt.indiana.edu/admis/fa.htm).



## Optician/Technician Program

The IU School of Optometry offers a two-year program leading to the Associate of Science (A.S.) degree in Optometric Technology/Opticianry. Students completing the program are qualified to begin careers as optometric technicians or opticians. This course of study offers an excellent entry point into one of the most interesting areas in the health care field.

The program takes four semesters to complete, if the student has not taken any previous college courses. The general, nontechnical courses, such as English composition, may be completed either before or after the technical courses. An additional option allows a student to become a laboratory optician by completing courses in lens surfacing and fabrication (Opticians' Laboratory Concentration).

For the most up-to-date information, visit the program's Web site at [www.opt.indiana.edu/programs/opttech/opttech.htm](http://www.opt.indiana.edu/programs/opttech/opttech.htm).

### Accreditation

The Optician/Technician Program is accredited by the Council on Optometric Education<sup>1</sup> and by the Commission on Opticianry Accreditation.<sup>2</sup>

### Mission, Goals, and Objectives

**Mission** To educate and train individuals as optometric technicians and opticians.

#### Goals

- To teach skills that enable graduates to be proficient in: (1) the theory and practice of ophthalmic dispensing, (2) ophthalmic lens fabrication, (3) contact lens procedures, (4) ophthalmic testing techniques, and (5) business office procedures. The knowledge of these skills is to be conveyed in a setting that is academically stimulating and clinically relevant.
- To provide students with opportunities to gain clinical experience by working with a diverse and varied patient population in Indiana University School of Optometry clinics.

- To eliminate hazardous waste and to reduce nonhazardous waste to the minimum levels economically and technically practical, and to be in full compliance with all federal and state environmental regulations.
- To foster the depth of understanding and abilities needed so that the graduate is capable of educating other ophthalmic employees.
- To prepare students for placement within the ophthalmic marketplace.
- To prepare students for the successful completion of appropriate certification exams such as ABO, NCLE, or any mandatory state exams.

**Objectives** To respond to a changing marketplace by appropriately modifying courses and course content so that our graduates are being successfully prepared for the profession. (Individual course learning objectives are found in the material prepared for each course within the program.)

### Career Information

**Opticians** fill eyewear prescriptions. They take the order written by the eye doctor, produce the lenses with the correct prescription, and shape the lenses to fit the frame. In addition, their training includes selecting frames, taking facial measurements, choosing the best lens style for the patient, and adjusting the frames to fit.

**Optometric technicians** must know how to take facial measurements and how to select and adjust frames. In addition, they learn business procedures and may be responsible for managing the doctor's office. They work closely with the eye doctor as part of the eye care team. Their tasks include measuring visual acuity, color vision, depth perception, field of vision, and pressures within the eye. They assist in various contact lens procedures and also teach contact lens patients to insert, remove, and care for their contact lenses.

#### Employment

Most opticians and optometric technicians are employed in the optical industry or by optometrists, opticians, and ophthalmologists. Some are employed as managers of optical dispensaries or laboratories. Graduates of the Optician/Technician Program may also work in an optical laboratory or for a lens, frame, contact lens, or instrument company. The U.S. Department of Labor has listed this job category as having excellent employment opportunities for the next several years.

### Salaries

Salaries for trained optometric technicians and opticians vary widely according to experience, geographic regions, and practice or company size. According to the Coin Career Guidance System computer software (Toledo, OH: Coin Educational Products, 2000), owners, managers, and certified graduates of opticianry schools had higher earnings, as did dispensing opticians who worked in states that require licensure. Salaries for non-managerial dispensing opticians averaged about \$29,103 in 1999.

The results of a 1999 survey of Indiana University Optician/Technician Program graduates show an average annual salary of \$33,404. This salary does not include bonuses or fringe benefits.

### Placement

The School of Optometry's Office of Student Administration maintains a current file of persons interested in hiring program graduates (or students). Presently, the demand is very high.



### Admission

Applicants must file an application with both Indiana University (if not currently enrolled) and the Optician/Technician Program. A new class begins each fall, but students with previous college experience may be able to begin the program in the spring semester by taking one optician/technician course (V153) and completing general education requirements. Early graduation is possible, if the student chooses to attend summer sessions.

Students planning to apply for admission to the Optician/Technician Program should complete courses in high school required for admission to Indiana University. Admission standards can be found in the section of this bulletin entitled "Undergraduate Admissions Policy." In most cases, current college students with a cumulative GPA of 2.0 or

<sup>1</sup>Council on Optometric Education, American Optometric Association, 243 N. Lindbergh Boulevard, St. Louis, MO 63141; (314) 991-4100

<sup>2</sup>Commission on Opticianry Accreditation, 7023 Little River Turnpike, Suite 207, Annandale, VA 22003; (703) 941-9110; coa@erols.com.

above and who are in good standing can expect to be admitted to the Optician/Technician Program.

Requests for additional information and application forms should be directed to Office of Student Administration, School of Optometry, 800 E. Atwater Avenue, Indiana University, Bloomington, Indiana 47405-3680; (812) 855-1917; fax (812) 855-4389; e-mail iubopt@indiana.edu.

## Certification

### Optician

Graduates of the Optician/Technician Program may become certified in the opticianry field. The National Opticianry Competency Examination (NOCE) is spectacle-related and given by the ABO. This exam consists of questions on the skills and knowledge required for competency in ophthalmic dispensing. The Contact Lens Registry Examination (CLRE) is given by NCLE for certification in contact lens dispensing. Both written exams are offered twice a year, in May and November, at numerous sites across the country. One or both certifications may be required by the state in which the optician plans to locate as some states require optician licensing. Many of these states use the ABO and/or NCLE certification exams as part of their licensing process. Applications are available in the Office of Student Administration.

For more information regarding certification, contact: American Board of Opticianry, ABO/NCLE, 6506 Loisdale Road, Suite 209, Springfield, VA 22150; (703) 719-5800; www.abo.org.

### Optometric Technician

Graduates of the Optician/Technician Program may also become certified through a program offered by the American Optometric Association Paraoptometric Section. This program was revised from registration to certification in the year 2000. The certification program consists of three levels; however, graduates of or students in their last semester of study in the IU Optician/Technician Program will be allowed to skip the first level and be eligible to sit for the second- or third-level exams to be phased in during the next two years. Certification is obtained by passing examinations given at various locations in the United States. Certification, while not required, is recognized in the optometry field as an assurance of the basic knowledge necessary to perform the functions of an optometric technician.

For more information, contact: American Optometric Association, Paraoptometric

Section, 243 N. Lindbergh Boulevard, St. Louis, MO 63141-7881; (314) 991-4100 or (800) 365-2219; www.aoanet.org.



## Curriculum

The non-V-lettered courses are offered outside of the School of Optometry and may be taken before or after completing the V-lettered technology courses.

### First Year

First Semester		Cr.
V111	Basic Optics	5
V151	Ophthalmic Procedures 1	4
V174	Office Procedures	4
V201	Anatomy and Physiology of the Eye	3
		Total 16

Second Semester		Cr.
V121	Ophthalmic Lens Finishing	4
V131	Ophthalmic Optics	5
V153	Ophthalmic Dispensing	4
V251	Ophthalmic Procedures 2	3
		Total 16

### Optional Summer Session

*Completing courses during the summer session leads to early graduation.*

Clinic Practicum  
Other requirements

### Second Year

First Semester		Cr.
V210	Fabrication Practicum I <sup>1</sup> (or C121 Public Speaking, C122 Interpersonal Communication, or Business studies <sup>1</sup> )	3 (3)
V221	Ophthalmic Lens Surfacing and Optics	4
V232	Contact Lens Methods and Procedures	4
V254	Clinic Practicum 1	4
W131	Elementary Composition	3
		Total 18

Second Semester		Cr.
V211	Fabrication Practicum II <sup>1</sup> (or Business studies <sup>1</sup> )	3 (3)
V255	Clinic Practicum 2	3
V256	External Clinics	3
H160	First Aid and Emergency Care <sup>2</sup>	3
Natural & Mathematical Sciences or Social & Historical Studies elective <sup>3</sup>		3
		Total 15

**Minimum total credit hours required for A.S. degree** **65**

Note: All Optician/Technician V-lettered courses must be completed within four years of matriculation; any exceptions require a written petition to the Academic Review Committee.

<sup>1</sup>Business studies courses should be chosen from the list below:

- Business A200 Foundations of Accounting (3 cr.)
- Business A201 Introduction to Accounting I (3 cr.)
- Business A202 Introduction to Accounting II (3 cr.)
- Business F260 Personal Finance (3 cr.)
- Business K201 Computers in Business (3 cr.)
- Business L100 Personal Law (3 cr.)
- Business L201 Legal Environment of Business (3 cr.)
- Business X100 Business Administration: Introduction (3 cr.)
- Business X204 Business Communications (3 cr.)
- Economics E201 Introduction to Microeconomics (3 cr.)
- Economics E202 Introduction to Macroeconomics (3 cr.)
- Economics E370 Introduction to Statistical Theory in Economics and Business (3 cr.)
- Psychology K300 Statistical Techniques (3 cr.)
- Mathematics K300 or K310 Statistical Techniques (3 cr.)
- SPEA K300 Statistical Techniques (3 cr.)

Please note:

1. The student is responsible for finding out about any prerequisites for the courses listed above.
2. X204 is the only business studies course (from list above) that can be counted toward a business degree if taken as independent study.
3. Some of the courses at or above the 200 level are open only to students who have completed 26 credit hours or more; this is strictly enforced by the Kelley School of Business.

<sup>2</sup>A first aid course through the American Red Cross may be substituted for H160 with your advisor's approval. No credit hours are earned in the Red Cross course. Consequently, 3 credit hours of a general elective must be completed to achieve a total of 65 credit hours required for graduation. Substitution is granted after students present their Red Cross certification card to the Office of Student Administration.

<sup>3</sup>The 3 credit hours may be selected from courses acceptable for the natural and mathematical sciences or the social and historical studies requirement, as listed in the College of Arts and Sciences Bulletin. Please note that this requirement may be fulfilled concurrently by selecting either Economics E201 Introduction to Microeconomics or E202 Introduction to Macroeconomics in the business studies group requirements. However, a minimum of 65 credit hours is required for graduation.

## Opticians' Laboratory Concentration

Students may elect to take the Opticians' Laboratory Concentration in lieu of C121 or C122 and a 3 credit hour business studies elective or 6 credit hours of business studies elective courses. The Opticians' Laboratory Concentration includes practical experience in all aspects of the optical laboratory and a study of the optics necessary in order to understand lens surfacing. Courses required for the concentration are V210 Fabrication Practicum I, V211 Fabrication Practicum II, and V221 Ophthalmic Lens Surfacing.

In the event that enrollment limits are exceeded for the Opticians' Laboratory Concentration courses, admission to V210 and V211 may require permission to enroll. Decisions will be made by the program director and the optical laboratory management.

In certain instances, a student may take V210 Fabrication Practicum I as early as the summer following the completion of the first year of Optician/Technician Program studies. Since V221 is a prerequisite or corequisite for V211 Fabrication Practicum II, the student must then enroll in V221 Ophthalmic Lens Surfacing the following fall semester.

## Academic Regulations

Academic standards are listed in the Optician/Technician Program's student handbook and are the same as listed in the University Division Planner.

## Courses in the Optician/Technician Program

Except for V153 Ophthalmic Dispensing and V201 Anatomy and Physiology of the Eye, the following courses are open only to students who have been admitted to the Optician/Technician Program. The number of credit hours for a course is indicated in parentheses following the course title. The abbreviation "P" refers to course prerequisite(s). The abbreviation "C" refers to corequisite(s).

**V111 Basic Optics (5 cr.)** Lectures and laboratory exercises concerning basic optical principles with the addition of geometrical/theoretical optics.

**V121 Ophthalmic Lens Finishing (4 cr.)** P: V111. Lecture and laboratory instruction in the finishing of ophthalmic lenses, including lens selection,

decentration, orientation, and mounting. Related lens topics such as lens safety requirements and absorptive lens characteristics are also included. Students must demonstrate the ability to produce a spectacle lens prescription that is both visibly pleasing and optically sound.

**V131 Ophthalmic Optics (5 cr.)<sup>1</sup>** P: V111. Optical characteristics and design of standard ophthalmic, single vision, multifocal, absorptive, coated, occupational, low vision, and sports vision lenses; prescription verification; prismatic effects; and lens decentration.

**V151 Ophthalmic Procedures 1 (4 cr.)<sup>1</sup>** Techniques and theory used in optometric practice, including case history, visual acuity, refractive errors, keratometry and ophthalmometry, visual fields, color vision, eye movements, binocular vision, accommodation, convergence and divergence, visual axis deviation, strabismus, visual pathway, and pupillary reflexes.

**V153 Ophthalmic Dispensing (4 cr.)<sup>1</sup>** Areas of study will include frame types and parts, facial measurements for fitting, functional and cosmetic aspects of frame selection, and frame alignment, adjusting, and repair.

**V174 Office Procedures (4 cr.)** Office procedures as applied to an ophthalmic practice, including telephone etiquette, appointment systems, bookkeeping, payroll records, third-party systems, recalls, computers, and other business management methods.

**V201 Anatomy and Physiology of the Eye (3 cr.)** The cell; the structure and function of the visual system, including the eye, the orbit and adnexa, the visual pathway; the nervous system and brain; ocular motility; ocular reflexes.

**V210 Fabrication Practicum I (3 cr.)** P: V121 and V131. Students are offered practical experience in all phases of the operation of a prescription optical laboratory. Theory in ophthalmic prescription work is combined with the development of skills necessary to assure that finished eyewear will be both optically correct and aesthetically pleasing.

**V211 Fabrication Practicum II (3 cr.)** P: V210; P or C: V221. Students are offered practical experience in all phases of the operation of a prescription optical laboratory. Theory in ophthalmic prescription work is combined with the development of skills necessary to assure that finished eyewear will be both optically correct and aesthetically pleasing.

**V221 Ophthalmic Lens Surfacing and Optics (4 cr.)** P: V121, V131. Theory and practice of ophthalmic optics, spectacle lens surfacing, and selected topics of interest to the ophthalmic community. Subjects include single vision, multifocal and progressive addition lenses, base curves, lens thickness, application of prism, correction of vertical imbalance, high-powered lens prescriptions, aspheric lenses, and aniseikonia.

**V232 Contact Lens Methods and Procedures (4 cr.)** P: V131. Contact lens patient evaluation; instruction in insertion, removal, and hygiene; lens design, ordering, verification, and modification; lens materials, care products, and complications; an introduction to specialty lenses.

**V251 Ophthalmic Procedures 2 (3 cr.)<sup>1</sup>** P: C- or above in V151. Further principles and techniques used in ophthalmic practice, including glaucoma and tonometry, hypertension and measurement of blood pressure, diabetes, ocular pathology, ocular pharmacology, biomicroscopy, vision screening, blindness and partial sight, low-vision aids.

**V254 Clinic Practicum 1 (4 cr.)<sup>1</sup>** P: V121 and a grade of C- or above in V131 and V153. Clinical experience in frame selection, dispensing, adjustment, verification, and repair of eyewear.

**V255 Clinic Practicum 2 (3 cr.)<sup>1</sup>** P: V121 and a grade of C- or above in V131, V151, V153, and V251. Practical application of technical and managerial skills learned in courses and laboratories by assisting clinicians and instructors in the optometry clinics.

**V256 External Clinics (3 cr.)<sup>1</sup>** P: V121 and a grade of C- or above in V131, V151, V153, and V251. Practical application of clinical skills by assisting clinicians and consultants in the external clinics.

**V269 Selected Studies (3 cr.)** The student selects a clinical area of interest for further study.

**V275 Topical Seminar (1 cr.)** Selected topics of interest.

<sup>1</sup>V131, V151, V153, V251, V254, V255, and V256 must each be completed with a final grade of C- or above.

## Cross-Listed Courses

The following required courses are offered by departments outside the School of Optometry. For descriptions of electives in business studies, see the Kelley School of Business Undergraduate Program Bulletin for either the Bloomington or Indianapolis campus. For electives in natural and mathematical sciences or social and historical studies, and for courses not offered by the business school, consult the College of Arts and Sciences Bulletin.

**C121 Public Speaking (3 cr.)** Theory and practice of public speaking; training in thought processes necessary to organize speech content; analysis of components of effective delivery and language. *Department of Communication and Culture, College of Arts and Sciences*

**C122 Interpersonal Communication (3 cr.)** Introduction to core communication concepts and processes of face-to-face interaction from the perspective of communication competence. Analyzes variability in the design, production, exchange, and interpretation of messages in relational, family, professional, and cultural contexts. *Department of Communication and Culture, College of Arts and Sciences*

**H160 First Aid and Emergency Care (3 cr.)** Lecture and demonstration on first-aid measures for wounds, hemorrhage, burns, exposure, sprains, dislocations, fractures, unconscious conditions, suffocation, drowning, and poisons, with skill training in all procedures. Introduction to CPR included. *School of Health, Physical Education, and Recreation (HPER)*

**W131 Elementary Composition (3 cr.)** Offers instruction and practice in the reading, writing, and critical thinking skills required in college. Emphasis is on written assignments that require synthesis, analysis, and argument based on sources. *Department of English, College of Arts and Sciences*

## Student Honors and Awards

### Graduation with Honors

The Associate of Science in Optometric Technology/Opticianry degree is granted with distinction to students who have demonstrated laudatory scholarship in their studies. The specific honor is noted on the graduate's diploma. The cumulative grade point averages and the corresponding citations are 3.70, with distinction; 3.80, with high distinction; 3.90, with highest distinction.

## Awards and Recognitions

Each year, many awards are presented to School of Optometry students. Periodically, students will receive notices regarding eligibility and application deadlines. Inquiries should be directed to the School of Optometry's Office of Student Administration or to the faculty chairperson of the Awards and Honors Committee. The actual list of awards may vary from year to year and not all awards are presented each year.

*Essilor Corneal Reflection Pupilometer Award*

*Indiana University Optometry Alumni Association Awards:* (1) Technician of the Year, (2) Optician of the Year, (3) Achievement, (4) Professional Attitude and Patient Rapport, and (5) Contact Lens awards.

## Student Organizations

The principal organizations open to, and governed by, students from all degree programs in the School of Optometry are listed in the "Professional Optometry Degree Program" section of this bulletin.

## Financial Aid

The Indiana University Bloomington Office of Student Financial Assistance offers information and assistance concerning a variety of grants, loans, and other student financial aid. These include but are not limited to Federal Pell Grants, SSACI grants for Indiana residents, Federal Direct Student Loans, and the Federal Work-Study Program.

Application for student financial aid is made by completing the Free Application for Federal Student Aid (FAFSA) at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) and having the information sent to IU Bloomington at School Code 001809. Apply between January 1 and March 1 each year for the academic year beginning in late August. The March 1 date is an actual "deadline" for Indiana state grants and a "priority date" for other types of federal aid. If you file after March 1, you will still be considered for Pell Grant and Federal Direct Loans, but you may miss out on other valuable financial aid opportunities.

The IU Office of Student Financial Assistance is located in Room 208, Franklin Hall, Bloomington, IN 47405; (812) 855-0321; e-mail [rsvposfa@indiana.edu](mailto:rsvposfa@indiana.edu); Web site: [www.indiana.edu/~sfa](http://www.indiana.edu/~sfa). The School of Optometry also has its own part-time financial aid administrator available on Tuesdays and Fridays for in-person appointments. You may make contact by phone at (812) 855-1917 or by e-mail at [iuoptfa@indiana.edu](mailto:iuoptfa@indiana.edu).



## 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. Information on standard and on-line continuing education courses can be found at [www.opt.indiana.edu/ce/ce.html](http://www.opt.indiana.edu/ce/ce.html).

The School of Optometry provides continuing education courses for optometric technicians. For information, visit the Paraoptometric Certificate Program Web site at: [www.opt.indiana.edu/ce/paraopt/paraopt.htm](http://www.opt.indiana.edu/ce/paraopt/paraopt.htm).

Inquiries should be addressed to the Chair, Continuing Education Committee, School of Optometry, Indiana University, 800 E. Atwater Avenue, Bloomington, IN 47405-3680; (812) 855-9292.



## Faculty

For the most up-to-date information, visit the IU School of Optometry faculty listing on the World Wide Web at [www.opt.indiana.edu/people/faculty.htm](http://www.opt.indiana.edu/people/faculty.htm).

### Primary Faculty

- Begley, Carolyn G., O.D. (*Indiana University*, 1983), M.S. (1979), Associate Professor of Optometry
- Bonanno, Joseph A., O.D. (*University of California, Berkeley*, 1981), Ph.D. (1987), Professor of Optometry
- Bradley, Arthur, Ph.D. (*University of California, Berkeley*, 1983), Associate Professor of Optometry
- Braun, Mark W., M.D. (*Indiana University*, 1975), M.S. (1997), Professor of Medical Pathology (part time), Director of Medical Pathology, Medical Sciences Program, and Professor of Optometry (part time)
- Brooks, Clifford W., O.D. (*Indiana University*, 1971), Associate Professor of Optometry and Director of Optician/Technician Program
- Candy, T. Rowan, B.Sc. (*University of Wales*, 1989), Ph.D. (*University of California, Berkeley*, 1997), Assistant Professor of Optometry
- Chung, Susana, M.Sc.Optom. (*University of Melbourne*, 1992), Ph.D. (*University of Houston*, 1995), Assistant Professor of Optometry
- Demirel, Shaban, B.Sc.Optom. (*University of Melbourne*, 1990), Ph.D. (1995), Assistant Professor of Optometry
- Downey, John P., O.D. (*Indiana University*, 1981), Clinical Assistant Professor of Optometry
- Foster, Cynthia A., O.D. (*Indiana University*, 1995), Visiting Clinical Assistant Professor of Optometry
- Freeman, Douglas, M.A. (*Indiana University*, 1972), M.L.S. (1974), Associate Librarian and Head, Optometry Library, University Libraries
- Gerstman, Daniel R., O.D. (*Indiana University*, 1969), M.S. (1971), Executive Associate Dean for Budgetary Planning and Administration and Associate Professor of Optometry
- Goss, David A., O.D. (*Pacific University*, 1974), Ph.D. (*Indiana University*, 1980), Professor of Optometry
- Grogg, Jane Ann, O.D. (*Indiana University*, 1994), Clinical Assistant Professor of Optometry
- Hafner, Gary S., Ph.D. (*Indiana University*, 1972), Professor of Optometry and Adjunct Professor of Anatomy, Medical Sciences Program
- Henderson, Patricia A., O.D. (*Indiana University*, 1985), Clinical Assistant Professor of Optometry and Director of Community Eye Care Center
- Hitzeman, Steven A., O.D. (*Indiana University*, 1976), Clinical Associate Professor and Director of Clinics
- Horner, Douglas G., O.D. (*Pacific University*, 1974), M.S. (*University of Houston*, 1983), Ph.D. (1987), Assistant Professor of Optometry
- Howard, C. Denise, O.D. (*Indiana University*, 1985), Lecturer in Optometry (part time)
- Kaufmann, Lois, B.S.N., R.N. (*Hartwick College*, 1972), Coordinator, Education and Quality Assurance, Indiana University Health Center, and Lecturer in Optometry (part time)
- Keck, Gary K., M.A. (*Indiana University*, 1980), Lecturer in Optometry (part time)
- Kollbaum, Elli J., O.D. (*Indiana University*, 1997) Visiting Clinical Assistant Professor of Optometry
- Kovacich, Susan, O.D. (*Indiana University*, 1987), Clinical Assistant Professor
- Lowther, Andrya H., M.A. (*The Ohio State University*, 1970), Lecturer in Optometry (part time)
- Lowther, Gerald E., O.D. (*The Ohio State University*, 1967), M.S. (1969), Ph.D. (1972), Dean and Professor of Optometry
- Lyon, Don W., O.D. (*Indiana University*, 1999), Visiting Clinical Assistant Professor of Optometry
- Malinovsky, Victor E., O.D. (*Indiana University*, 1973), Clinical Associate Professor of Optometry
- Marshall, Edwin C., O.D. (*Indiana University*, 1971), M.S. (1979), M.P.H. (*University of North Carolina*, 1982), Associate Dean for Academic Affairs, Professor of Optometry, and Adjunct Professor of Public Health, School of Medicine
- McConnaha, Debra L., O.D. (*Indiana University*, 1984), Clinical Assistant Professor of Optometry (part time)
- Meetz, Richard E., O.D. (*Indiana University*, 1976), M.S. (*University of Michigan*, 1985), Clinical Associate Professor of Optometry
- Miller, Donald T., Ph.D. (*University of Rochester*, 1995), Assistant Professor of Optometry
- Pence, Neil A., O.D. (*Indiana University*, 1979), Lecturer in Optometry
- Pickel, Sandra A.S., A.B.O.C., B.G.S., C.P.O.T. (*Indiana University*, 1982), Lecturer in Optometry and Associate Director of Optician/Technician Program
- Plass, Deborah J., O.D. (*Indiana University*, 1996), Lecturer in Optometry (part time)
- Prescott, Elizabeth A., O.D. (*Indiana University*, 1981), Lecturer in Optometry (part time)
- Rainey, Bill B., O.D. (*The Ohio State University*, 1985), M.S. (*Indiana University*, 1998), Assistant Professor of Optometry
- Riley, Colleen, O.D. (*Indiana University*, 1992), M.S. (1998) Lecturer in Optometry (part time) and Research Associate
- Riley, Hurbert D., O.D. (*Indiana University*, 1971), Assistant Professor of Optometry
- Rivron, Elaine C., M.Sc. (*Melbourne University*, 1976), Lecturer in Optometry (part time)
- Soni, P. Sarita, O.D. (*Indiana University*, 1976), M.S. (1978), Associate Dean for Research and Professor of Optometry
- Srinivas, S.P., M.S. (I.I.T., India, 1982), Ph.D. (*Drexel University*, 1987), Assistant Professor of Optometry
- Sutton, Bradley M., O.D. (*Indiana University*, 1993), Clinical Assistant Professor of Optometry and Director of the Indianapolis Eye Care Center
- Thibos, Larry N., Ph.D. (*University of California, Berkeley*, 1975), Professor of Optometry
- Tonekaboni, Khashayar, O.D. (*Southern College of Optometry*, 1982), Clinical Assistant Professor of Optometry
- Torbit, Julie K., O.D. (*Indiana University*, 1993), Lecturer in Optometry (part time)
- Viswanathan, Suresh, M.S. (*Pacific University*, 1992), Ph.D. (*University of Houston*, 2000), Assistant Professor of Optometry
- Waltz, Kevin L., M.D. (*Meharry Medical College*, 1987), O.D. (*Indiana University*, 1981), Assistant Professor of Optometry (part time)
- Wilson, Graeme, Ph.D. (*University of California, Berkeley*, 1972), M.Sc. (*The University of Manchester*, 1965), Associate Dean for Graduate Programs and Professor of Optometry (part time)
- Worrell, Michael B., Ph.D. (*Indiana University*, 1990), Assistant Professor of Occupational Therapy, School of Medicine—School of Allied Health Sciences, Adjunct Assistant Professor of Anthropology, College of Arts and Sciences, and Adjunct Assistant Professor of Optometry, School of Optometry



### Emeritus Faculty

Allen, Merrill J., Ph.D. (*The Ohio State University, 1949*), Professor Emeritus of Optometry

Borish, Irvin Max, O.D. (*Northern Illinois College of Optometry, 1934*), L.L.D. (*Indiana University, 1968*), Professor Emeritus of Optometry

DeVoe, Robert D., Ph.D. (*Rockefeller University, 1961*), Professor Emeritus of Optometry

Egan, Elizabeth, A.M. (*Indiana University, 1959*), Optometry Librarian Emerita

Everson, Ronald W., O.D. (*Chicago College of Optometry, 1954*), M.S. (*Indiana University, 1959*), Associate Professor Emeritus of Optometry

Guth, Sherman L., Ph.D. (*University of Illinois, 1963*), Professor Emeritus of Psychology, College of Arts and Sciences

Heath, Gordon G., O.D. (*Los Angeles College of Optometry, 1951*), Ph.D. (*University of California, Berkeley, 1960*), Dean Emeritus and Professor Emeritus of Optometry

Hegeman, Sally, Ph.D. (*University of California, San Francisco, 1969*), Associate Professor Emerita of Optometry

Hofstetter, Henry W, Ph.D. (*The Ohio State University, 1942*), Rudy Professor Emeritus of Optometry

Pietsch, Paul A., Ph.D. (*University of Pennsylvania, 1960*), Professor Emeritus of Optometry

Shick, Charles R., O.D. (*Indiana University, 1958*), Professor Emeritus of Optometry

### Adjunct Faculty

Ajamian, Paul C., O.D. (*New England College of Optometry, 1980*), Director, Omni Eye Services of Atlanta, Atlanta, GA, and Adjunct Assistant Professor, School of Optometry

Amstutz, Grant C., O.D. (*Indiana University, 2000*), Optometrist, Dr. Hendricks & Associates, Clarksville, IN, and Adjunct Assistant Professor, School of Optometry

Atkin, Sharon R., O.D. (*Indiana University, 1985*), Chief of Optometry Services, VAMC, Perry Point, MD, and Adjunct Assistant Professor, School of Optometry

Baron, Samuel J., O.D. (*New England College of Optometry, 1971*), Clinician, Golden Vision Clinic, P.C., Golden, CO, and Adjunct Assistant Professor, School of Optometry

Bosin, Talmage R., Ph.D. (*Indiana University, 1967*), Assistant Dean, Medical Sciences Program, (School of Medicine), Director, Medical Sciences Program, (School of Medicine), Professor of Pharmacology and Toxicology, School of Medicine, and Adjunct Professor of Optometry, School of Optometry

Boyer, Stephen R., O.D. (*Pennsylvania College of Optometry, 1992*), Chief of Optometry Services, Danville VA Medical Center, Danville, IL, and Adjunct Assistant Professor, School of Optometry

Carter, Randy B., O.D. (*Indiana University, 1983*), Clinical Director, The Eye Institute of Utah, Salt Lake City, UT, and Adjunct Assistant Professor, School of Optometry

Chapman, James C., O.D. (*Illinois College of Optometry, 1980*), M.S. (*Troy State University, 1984*), Program Director, Lackland AFB, TX, and Adjunct Assistant Professor, School of Optometry

Chiarelli, Catherine Ann, O.D. (*University of Waterloo, 1988*), Chief of Clinical Services, Vision Institute of Canada, North York, Ontario, and Adjunct Assistant Professor, School of Optometry

Ciulla, Thomas A., M.D. (*University of California, 1991*), Assistant Professor of Ophthalmology, School of Medicine, and Adjunct Assistant Professor, School of Optometry

Coan, Mark A., O.D. (*Indiana University, 1996*), Director of Externship Program, Bascom Palmer Eye Institute, Miami, FL, and Adjunct Assistant Professor, School of Optometry

Copeland, Constance S., O.D. (*The Ohio State University, 1997*), Ph.D. (*Yale University, 1988*), Optometrist, Marshfield Clinic, Marshfield, WI, and Adjunct Assistant Professor of Optometry

Cordes, Matthew G., O.D. (*Illinois College of Optometry, 1999*), Staff Optometrist, Huntington VA Medical Center, Huntington, WV, and Adjunct Assistant Professor of Optometry

Danis, Ronald P., M.D. (*Northwestern University, 1983*), Associate Professor of Ophthalmology, School of Medicine, and Adjunct Associate Professor, School of Optometry

DenBeste, Brian P., O.D. (*Illinois College of Optometry, 1980*), Director, The Eye Foundation, Orlando, FL, and Adjunct Assistant Professor, School of Optometry

Eastlake, John B., O.D. (*Southern California College of Optometry, 1989*), Chief of Optometry, USA MEDDAC, Fort Knox, KY, and Adjunct Assistant Professor, School of Optometry

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Emert, Frank L., Jr., M.D. (*University of Missouri, Columbia, 1971*), Wabash Valley Eye Center, Vincennes, IN, and Adjunct Assistant Professor, School of Optometry

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Fodera, Felicia A., O.D. (*New England College of Optometry, 1992*), Staff Optometrist, Hudson Valley VA Hospital, Montrose, NY, and Adjunct Assistant Professor, School of Optometry

Freed, Stanley H., O.D. (*Pennsylvania College of Optometry, 1967*), Clinical Consultant, Naval Medical Clinic, Quantico, VA, and Adjunct Assistant Professor, School of Optometry

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Huck, Chad, O.D. (*Indiana University, 1985*), *Clinic Director, The Eye Center of Southern Indiana, Bloomington, IN, and Adjunct Assistant Professor, School of Optometry*

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Huseman, Sarah A., O.D. (*Indiana University, 1996*), *Optometrist, The Eye Surgeons of Indiana, Indianapolis, IN, and Adjunct Assistant Professor, School of Optometry*

Huskins, Arnold M., O.D. (*Southern College of Optometry, 1988*), *Chief, Optometric Extern Program, Keesler AFB, MS, and Adjunct Assistant Professor of Optometry*

Johnston, Robert L., O.D. (*Indiana University, 1987*), *Optometrist, Eye Specialists of Indiana, Indianapolis/Franklin, IN, and Adjunct Assistant Professor, School of Optometry*

Kiracofe, Greg, O.D. (*The Ohio State University, 1981*), *Chief of Optometry Section, VAMC, Dayton, OH, and Adjunct Assistant Professor, School of Optometry*

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Kirk, Glenn A., O.D. (*Indiana University, 1994*), *Staff Optometrist, Eye Specialists of Indiana, Indianapolis/Franklin, IN, and Adjunct Assistant Professor, School of Optometry*

MacKay, Kirk A., O.D. (*Indiana University, 1981*), *Optometrist, Eye Specialists of Indiana, Indianapolis/Franklin, IN, and Adjunct Assistant Professor, School of Optometry*

Mangan, Richard B., O.D. (*Illinois College of Optometry, 1991*), *Medical Director, Vision America of Indiana, Marion, IN, and Adjunct Assistant Professor, School of Optometry*

Masden, Timothy Lee, O.D. (*Indiana University, 1983*), *Optometrist, InSight Eyecare Associates, Inc., New Salisbury, IN, and Adjunct Assistant Professor, School of Optometry*

Maynard, Kirk C., O.D. (*Illinois College of Optometry, 1983*), *Commander, Optometry Flight, Offutt AFB, NE, and Adjunct Assistant Professor, School of Optometry*

McGreal, John A., Jr., O.D. (*Pennsylvania College of Optometry, 1985*), *Vision America of St. Louis, St. Louis, MO, and Adjunct Assistant Professor, School of Optometry*

Noblitt, Randall, O.D. (*Indiana University, 1986*), *Center Director, John Kenyon Eye Center, Louisville, KY, and Adjunct Assistant Professor, School of Optometry*

Nolan, Ronald R., O.D. (*Indiana University, 1973*), *Optometrist, New Albany, IN, and Adjunct Assistant Professor, School of Optometry*

O'Koren, Anthony, O.D. (*Pennsylvania College of Optometry, 1984*), *M.A. (Webster University, 1995), Residency Program Director, USAF, Lackland AFB, TX, and Adjunct Assistant Professor, School of Optometry*

O'Neill, Patrick W., O.D. (*Ferris State University, 1982*), *Staff Optometrist, Northfield Eye Center, Northfield, MN, and Adjunct Assistant Professor, School of Optometry*



Peltzer, Bradley A., O.D. (*University of Houston College of Optometry, 1991*), *Externship Director, Arán Eye Associates, and Adjunct Assistant Professor, School of Optometry*

Peplinski, Lee S., O.D. (*Ferris State University, 1989*), *Consultative Optometrist, Bennett-Bloom Eye Center, Louisville, KY, and Adjunct Assistant Professor, School of Optometry*

Rakes, James A., O.D. (*Indiana University, 1975*), *Chief of Optometry, VAMC, Lexington, KY, and Adjunct Assistant Professor, School of Optometry*

Randall, John W., O.D. (*Pacific University, 1980*), *M.P.H. (Loma Linda University, 1996), Chief of Optometry, Yakima Indian Health Center, Toppenish, WA, and Adjunct Assistant Professor, School of Optometry*

Risch, Judy D., O.D. (*Indiana University, 1990*), *Optometrist, Richmond Eye Institute, Richmond, IN, and Adjunct Assistant Professor, School of Optometry*

Rolf, Miriam M., O.D. (*State University of New York, 1995*), *Optometrist, VA Hudson Valley Health Care System, New York, NY, and Adjunct Assistant Professor, School of Optometry*

Roys, Peggy J., O.D. (*Indiana University, 1989*), *Chief of Optometry, Wind River Indian Health Service, Fort Washakie, WY, and Adjunct Assistant Professor, School of Optometry*

Salituro, Sam M., O.D. (*Illinois College of Optometry, 1992*), *Research Optometrist, Wesley-Jessen Corp., Des Plaines, IL, and Adjunct Assistant Professor of Optometry*

Schamerloh, Sara L., O.D. (*Indiana University, 1987*), *Chief of Optometry, Northern Indiana Health Care System VAMC, Fort Wayne, IN, and Adjunct Assistant Professor, School of Optometry*

Schlegel, Stephen K., O.D. (*Indiana University, 1997*), *Optometrist, Schlegel & Schlegel, Mitchell, IN, and Adjunct Assistant Professor, School of Optometry*

Siebert, Donald A., O.D. (*Pennsylvania College of Optometry, 1986*), *Optometrist, Huntington VA Medical Center, Huntington, WV, and Adjunct Assistant Professor, School of Optometry*

Stewart, James B., O.D. (*Indiana University, 1985*), *Director of Optometry, Muncie Eye Center, Muncie, IN, and Adjunct Assistant Professor, School of Optometry*

Szirovecz, Stephen M., O.D. (*Indiana University, 1992*), *Externship Coordinator, Omni Eye Services of Atlanta, Atlanta, GA, and Adjunct Assistant Professor of Optometry*

Terry, Jack E., O.D. (*The Ohio State University, 1975*), *Chief of Optometry Section, VAMC, Huntington, WV, and Adjunct Assistant Professor, School of Optometry*

VanCleve, Stephan A., O.D. (*Indiana University, 1963*), *Clinic Director, EyeCare Consultants, Evansville, IN, and Adjunct Assistant Professor, School of Optometry*

Vandervort, Robert S., O.D. (*Indiana University, 1979*), *Center Director, The Omaha Eye Institute, Omaha, NE, and Adjunct Assistant Professor, School of Optometry*

Walton, Paul L., M.D. (*Jefferson Medical College, 1983*), *Ophthalmologist, Eye Specialists of Indiana, Indianapolis/Franklin, IN, and Adjunct Assistant Professor of Optometry*

Watkins III, John B., Ph.D. (*University of Wisconsin, 1979*), M.S. (1977), *Professor of Pharmacology and Toxicology, Medical Sciences Program (School of Medicine), Assistant Director, Medical Sciences Program (School of Medicine), and Adjunct Professor, School of Optometry*

Wilson, Steven M., O.D. (*Indiana University, 1981*), *Optometrist, American Eye Institute, New Albany, IN, and Adjunct Assistant Professor, School of Optometry*

Winder, Randall K., O.D. (*Pacific University, 1998*), *Assistant Chief of Optometry, USA MEDDAC, Fort Knox, KY, and Adjunct Assistant Professor, School of Optometry*



# Indiana University

When you become a student at Indiana University, you join an academic community internationally known for the excellence and diversity of its programs. With 1,013 degree programs, the university attracts students from all 50 states and around the world. The full-time faculty numbers more than 4,000 and includes members of many academic societies such as the American Academy of Arts and Sciences, the American Philosophical Society, and the National Academy of Sciences.

Indiana University was founded at Bloomington in 1820 and is one of the oldest and largest institutions of higher education in the Midwest. It serves 92,000 students on eight campuses. The residential campus at Bloomington and the urban center at Indianapolis form the core of the university. Campuses in Gary, Fort Wayne, Kokomo, New Albany, Richmond, and South Bend join Bloomington and Indianapolis in bringing an education of high quality within reach of all of Indiana's citizens.

## General Policies

### Equal Opportunity/Affirmative Action Policy of Indiana University

Indiana University pledges itself to continue its commitment to the achievement of equal opportunity within the university and throughout American society as a whole. In this regard, Indiana University will recruit, hire, promote, educate, and provide services to persons based upon their individual qualifications. Indiana University prohibits discrimination based on arbitrary consideration of such characteristics as age, color, disability, ethnicity, gender, marital status, national origin, race, religion, sexual orientation, or veteran status.

Indiana University shall take affirmative action, positive and extraordinary, to overcome the discriminatory effects of traditional policies and procedures with regard to the disabled, minorities, women, and Vietnam-era veterans.

An Affirmative Action office on each campus monitors the university's policies and assists individuals who have questions or problems related to discrimination.

### Special Assistance

For people who have disabilities and need special assistance, special arrangements can be made to accommodate most needs. In Bloomington, contact Disabled Student Services at (812) 855-7578; at IUPUI, contact Adaptive Educational Services at (317) 274-3241.

### Confidentiality of Student Records

In accordance with federal statutes and regulations, student records are confidential and available for disclosure to persons other than the student only under stated conditions.

### Student Rights and Responsibilities

A statement of students' rights and responsibilities is published in a handbook, *Code of Student Rights, Responsibilities, and Conduct*, which contains a description of due process hearings in the event of disciplinary action.

**Degree Requirements** Students are responsible for understanding all requirements for graduation and for completing them by the time they expect to graduate. Information about a specific school or division can be found in the front section of the bulletin for that school.

*Requests for deviation* from department, program, or school requirements may be granted only by written approval from the respective chairperson, director, or dean (or a designated administrative representative). Disposition at each level is final.

## Undergraduate Admissions Policy

Indiana University has adopted the following admissions policy to ensure that undergraduate students are properly prepared for college work. These standards seek to ensure either adequate academic preparation in high school or evidence of unusual motivation on the part of each student admitted to the university. Applicants for admission to Indiana University are expected to meet the following criteria.

### Freshman Students<sup>1</sup>

1. Graduation from an accredited Indiana high school or comparable out-of-state institution, successfully completing a minimum of 28 semesters of college-preparatory courses including the following:
  - (a) Eight semesters of English. (One semester each of speech and journalism may be included.)
  - (b) Four semesters of social science (economics, government, history, psychology, or sociology).
  - (c) Four semesters of algebra (two semesters of which must be advanced algebra) and two semesters of geometry.
  - (d) Two semesters of laboratory science (biology, chemistry, or physics).
  - (e) Eight semesters in some combination of foreign language; additional mathematics, laboratory science, or social science; computer science; and other courses of a college-preparatory nature.
  - (f) Four semesters of foreign language are strongly recommended.
  - (g) Courses to develop writing composition skills are strongly recommended.
2. A rank in the upper half of the high school graduating class for Indiana residents or a rank in the upper third of the high school graduating class for out-of-state residents.
3. A score above the median established by Indiana students on a nationally standardized admissions test. Students who have been out of high school for three or more years do not have to submit test scores unless required for admission to specific programs.
4. Each campus may accept students who are deficient in (1), (2), or (3) of the above specifications upon receipt of such evidence as the combination of strength of college-preparatory program, rank in class, grades and grade trends in college-preparatory courses, and standardized test scores. For persons who do not meet the above criteria

and who have been out of high school three or more years, admission can be based on other factors such as a General Educational Development (GED) diploma, maturity, work experience, military service, and other factors as determined by the campus.

5. Each campus, at its discretion, may admit a student on a probationary basis and/or through faculty sponsorship.

### Transfer Students<sup>1</sup>

1. Submission of official transcripts from all previous institutions attended.
2. The transcripts must reflect a cumulative grade point average of at least a 2.0 (on a 4.0 scale) for Indiana residents and at least a 2.5 (on a 4.0 scale) for out-of-state residents.
3. If the student has fewer than 26 transferable credit hours, the high school record should reflect compliance with freshman admission requirements as specified above.
4. The credentials of students seeking transfer to Indiana University will be evaluated on an individual basis.

When students do not qualify upon first application, they will be counseled about ways of removing deficiencies so that they may qualify for admission at a later date. If any provision of this policy is held invalid, the invalidity does not affect other provisions of this policy which can be given effect without the invalid provision, and to this end the provisions of this policy are severable.

## Transfer to Other Indiana University Campuses

*The policy stated below concerning transfer credit pertains to undergraduate students only.*

Indiana University credits transferred from one campus of Indiana University to another will be evaluated and accepted in terms at least as favorable as credits transferred from other accredited institutions in the United States. No review of the credits will be undertaken except in good faith terms of the same criteria used in evaluating external credits. In fact, students transferring within the Indiana University system are treated much more favorably because of the similarity of course work on the eight campuses.

Students who want to transfer to another campus should follow these procedures:

1. Inform your academic advisor of your decision as soon as possible. Degree requirements may vary from one campus to another but if your advisor knows of your plan, your academic program can be designed to meet the requirements of the campus you will eventually attend.
2. Contact the department chairperson (or the designated advisor) at the campus you plan to attend. Discuss your plan and ask about any special procedures. For example, students transferring in fine arts must submit portfolios of their work. Music transfer students must be auditioned.

<sup>1</sup>Some academic programs require specific qualifications in addition to those enumerated in this policy.

3. As the date of transfer approaches, check with your campus registrar to get information on registration dates and procedures on the other campus. If there is a preregistration or preenrollment procedure at the other campus, you should plan to take advantage of it. Contact the registrar of the other campus to determine whether you can fulfill any of these responsibilities by phone. Your registrar has a direct telephone line to all other registrars.
4. When you arrive on the new campus, contact your assigned academic adviser or department chairperson as soon as possible. Discuss your academic progress to date and the additional course work required for your program.

## Rules Determining Resident and Nonresident Student Status for Indiana University Fee Purposes

These Rules establish the policy under which students shall be classified as residents or nonresidents upon all campuses of Indiana University for University fee purposes. Nonresident students shall pay a nonresident fee in addition to fees paid by a resident student.

These Rules shall take effect February 1, 1974; provided, that no person properly classified as a resident student before February 1, 1974, shall be adversely affected by this Rule, if he or she attended the University before that date and while he or she remains continuously enrolled in the University.

1. "Residence" as the term, or any of its variations (e.g., "resided"), as used in the context of these Rules, means the place where an individual has his or her permanent home, at which he or she remains when not called elsewhere for labor, studies, or other special or temporary purposes, and to which he or she returns in seasons of repose. It is the place a person has voluntarily fixed as a permanent habitation for himself or herself with an intent to remain in such place for an indefinite period. A person at any one time has but one residence, and a residence cannot be lost until another is gained.
  - (a) A person entering the state from another state or country does not at that time acquire residence for the purpose of these Rules, but except as provided in Rule 2(c)<sup>1</sup>, such person must be a resident for 12 months in order to qualify as a resident student for fee purposes.
  - (b) Physical presence in Indiana for the predominant purpose of attending a college, university, or other institution of higher education, shall not be counted in determining the 12-month period of residence; nor shall absence from Indiana for such purpose deprive a person of resident student status.
2. A person shall be classified as a "resident student" if he or she has continuously resided in Indiana for at least 12 consecutive months immediately preceding

the first scheduled day of classes of the semester or other session in which the individual registers in the University, subject to the exception in (c)<sup>1</sup> below.

- (a) The residence of an unemancipated person under 21 years of age follows that of the parents or of a legal guardian who has actual custody of such person or administers the property of such person. In the case of divorce or separation, if either parent meets the residence requirements, such person will be considered a resident.<sup>2</sup>
  - (b) If such person comes from another state or country for the predominant purpose of attending the University, he or she shall not be admitted to resident student status upon the basis of the residence of a guardian in fact, except upon appeal to the Standing Committee on Residence in each case.<sup>1</sup>
  - (c) Such person may be classified as a resident student without meeting the 12-month residence requirement within Indiana if his or her presence in Indiana results from the establishment by his or her parents of their residence within the state *and* if he or she proves that the move was predominantly for reasons other than to enable such person to become entitled to the status of "resident student."<sup>1</sup>
  - (d) When it shall appear that the parents of a person properly classified as a "resident student" under subparagraph (c) above have removed their residence from Indiana, such person shall then be reclassified to the status of nonresident; provided, that no such reclassification shall be effective until the beginning of a semester next following such removal.
  - (e) A person once properly classified as a resident student shall be deemed to remain a resident student so long as remaining continuously enrolled in the University until such person's degree shall have been earned, subject to the provisions of subparagraph (d) above.
3. The foreign citizenship of a person shall not be a factor in determining resident student status if such person has legal capacity to remain permanently in the United States.
  4. A person classified as a nonresident student may show that he or she is exempt from paying the nonresident fee by clear and convincing evidence that he or she has been a resident (see Rule 1 above) of Indiana for the 12 months prior to the first scheduled day of classes of the semester in which his or her fee status is to be changed. Such a student will be allowed to present his or her evidence only after the expiration of 12 months from the Residence Qualifying Date, i.e., the date upon which the student commenced the 12-month period for residence. The following factors will be considered relevant in evaluating a requested change in a student's nonresident status and in evaluating whether his or her physical presence in Indiana is for the predominant purpose of attending a college, university, or other institution of higher education. The

existence of one or more of these factors will not require a finding of resident student status, nor shall the non-existence of one or more require a finding of nonresident student status. All factors will be considered in combination, and ordinarily resident student status will not result from the doing of acts which are required or routinely done by sojourners in the state or which are merely auxiliary to the fulfillment of educational purposes.

- (a) The residence of a student's parents or guardians.
  - (b) The situs of the source of the student's income.
  - (c) To whom a student pays his or her taxes, including property taxes.
  - (d) The state in which a student's automobile is registered.
  - (e) The state issuing the student's driver's license.
  - (f) Where the student is registered to vote.
  - (g) The marriage of the student to a resident of Indiana.
  - (h) Ownership of property in Indiana and outside of Indiana.
  - (i) The residence claimed by the student on loan applications, federal income tax returns, and other documents.
  - (j) The place of the student's summer employment, attendance at summer school, or vacation.
  - (k) The student's future plans including committed place of future employment or future studies.
  - (l) Admission to a licensed profession in Indiana.
  - (m) Membership in civic, community, and other organizations in Indiana or elsewhere.
  - (n) All present and intended future connections or contacts outside of Indiana.
  - (o) The facts and documents pertaining to the person's past and existing status as a student.
  - (p) Parents' tax returns and other information, particularly when emancipation is claimed.
5. The fact that a person pays taxes and votes in the state does not in itself establish residence, but will be considered as hereinbefore set forth.
  6. The Registrar or the person fulfilling those duties on each campus shall classify each student as resident or nonresident and may require proof of all relevant facts. The burden of proof is upon the student making a claim to a resident student status.
  7. A Standing Committee on Residence shall be appointed by the President of the University and shall include two students from among such as may be nominated by the student body presidents of one or more of the campuses of the university. If fewer than four are nominated, the President may appoint from among students not nominated.

<sup>1</sup>Rules 2(b) and 2(c) apply only to unemancipated persons under 21 years of age.

<sup>2</sup>Invocation of the provision in Rule 2(a) that applies to cases of divorce or separation requires appropriate legal documentation.

8. A student who is not satisfied by the determination of the Registrar has the right to lodge a written appeal with the Standing Committee on Residence within 30 days of receipt of written notice of the Registrar's determination, which Committee shall review the appeal in a fair manner and shall afford to the student a personal hearing upon written request. A student may be represented by counsel at such hearing. The Committee shall report its determination to the student in writing. If no appeal is taken within the time provided herein, the decision of the Registrar shall be final and binding.
9. The Standing Committee on Residence is authorized to classify a student as a resident student, though not meeting the specific requirements herein set forth, if such student's situation presents unusual circumstances and the individual classification is within the general scope of these Rules. The decision of the Committee shall be final and shall be deemed equivalent to a decision of the Trustees of Indiana University.
10. A student or prospective student who shall knowingly provide false information or shall refuse to provide or shall conceal information for the purpose of improperly achieving resident student status shall be subject to the full range of penalties, including expulsion, provided for by the University, as well as to such other punishment which may be provided for by law.
11. A student who does not pay additional monies which may be due because of his or her classification as a nonresident student within 30 days after demand, shall thereupon be indefinitely suspended.
12. A student or prospective student who fails to request resident student status within a particular semester or session and to pursue a timely appeal (see Rule 8) to the Standing Committee on Residence shall be deemed to have waived any alleged overpayment of fees for that semester or session.
13. If any provision of these Rules or the application thereof to any person or circumstance is held invalid, the invalidity does not affect other provisions or applications of these Rules which can be given effect without the invalid provision or application, and to this end the provisions of these Rules are severable.

## Fees

The instructional fees listed here were approved at the May 2000 meeting of the Trustees of Indiana University. Fees are subject to change by action of the trustees. For up-to-date information about fees in effect at registration time, see the campus *Schedule of Classes*.

Certain courses and programs requiring studios, laboratories, microscopes, computers, or other special equipment may involve special fees in addition to the instructional fee. Applied music, student teaching, and some physical education courses also carry additional fees. See the campus *Schedule of Classes* for a list of such courses and programs.

Fees for Indiana University campuses other than Bloomington and Indianapolis are published in the bulletin of the specific campus.

INSTRUCTIONAL FEES	Indiana Resident	Nonresident
Undergraduate <sup>1</sup>	\$1,951.20 flat fee/semester for 12 to 17 credit hours \$121.80/credit hour under 12 or over 17	\$6,479.05 flat fee/ semester for 12 to 17 credit hours \$404.90/credit hour under 12 or over 17
Graduate and Professional <sup>1</sup>		
Business—M.B.A. Program <sup>2</sup>	\$4,674.55/semester	\$9,349.10/semester
Business <sup>3</sup>	\$292.25/credit hour	\$584.70/credit hour
Law	\$255.10/credit hour	\$654.25/credit hour
Library and Information Science	\$178.35	\$519.50
Optometry	\$206.55/credit hour	\$573.55/credit hour
Public and Environmental Affairs— M.P.A. and M.S.E.S. Programs	\$204.10/credit hour	\$553.35/credit hour
Other	\$168.60/credit hour	\$491.15/credit hour
Independent Study (Correspondence)	\$99.60/credit hour	\$99.60/credit hour
Dissertation research (G901) <sup>4</sup>	\$150.00/semester	\$150.00/semester
Auditing (no credit)	\$25.00/credit hour	\$25.00/credit hour
Distance Education Special Courses <sup>5</sup> for Schools of Education; and Health, Physical Education, and Recreation: Graduate Undergraduate	Same as rate for on-campus instruction in respective category	
	<b>Indianapolis Campus</b>	
Undergraduate <sup>1</sup>	\$119.00/credit hour	\$370.25/credit hour
Graduate and Professional <sup>1</sup>		
Business—M.B.A. Program	\$270.00/credit hour	\$540.00/credit hour
Business—M.P.A. Program	\$200.00/credit hour	\$400.00/credit hour
Dentistry	\$13,166.00/year	\$28,196.00/year
Engineering	\$178.25/credit hour	\$509.60/credit hour
Law	\$246.80/credit hour	\$599.40/credit hour
Medicine	\$13,908.00/year	\$31,847.00/year
Nursing	\$163.90/credit hour	\$472.85/credit hour
Social Work	\$167.00/credit hour	\$481.50/credit hour
Master of Accountancy	\$200.00/credit hour	\$400.00/credit hour
Other	\$163.90/credit hour	\$472.85/credit hour
Dissertation research (G901) <sup>4</sup>	\$100.00/semester	\$100.00/semester
Auditing (no credit)	Applicable credit hour rate	Applicable credit hour rate
Distance Education Special Courses for Allied Health Histotechnology: Graduate and Undergraduate	Same as rate for on-campus instruction in respective category	

<sup>1</sup>Includes credit courses in the School of Continuing Studies.

<sup>2</sup>M.B.A. students enrolled in 9 or more credit hours of business courses will be assessed a flat rate. Enrollment in any courses other than business will be assessed on a per-credit-hour basis.

<sup>3</sup>Graduate business credit hour rates apply to (a) M.B.A. students enrolled in fewer than 9 credit hours of business courses, and (b) students enrolled in a doctoral business program.

<sup>4</sup>To keep their candidacies active, doctoral students with 90 credit hours or more and Master of Fine Arts students with 60 credit hours or more may enroll in G901 for a flat fee of \$150. Also, they must have completed all graduate degree requirements except for the dissertation or final project/performance. Enrollment in G901 is limited to six times. Students who do not meet these criteria pay the applicable credit hour rate for dissertation research.

<sup>5</sup>In addition to instructional fee rates, course fees of \$90.00 for Education, \$75.00 for HPER, and \$50.00 for Library and Information Science will be assessed.



INCIDENTAL FEES <sup>6</sup>	Bloomington Campus	Indianapolis Campus
Application for admission		
Domestic, undergraduate	\$40.00	\$35.00
Domestic, graduate	\$45.00	\$55.00
International	\$45.00	\$55.00
Deferment service charge <sup>7</sup>	\$24.00	\$22.00
Health service fee <sup>8</sup>	\$76.50/semester \$32.80/summer I \$43.70/summer II	
Late payment charge <sup>9</sup>	\$10.00-\$50.00/month	\$11.00/month
Late program change <sup>10</sup>	\$21.00/course added or dropped	\$19.00/course added
Late registration <sup>11</sup>	\$54 to \$94/semester \$54.00/summer session	\$40.00 to \$100.00/ semester \$40.00 to \$65.00/ summer session
Student activity fee <sup>12</sup>	\$26.77 or \$53.55/semester \$13.37 or \$26.77/summer session	\$24.25 or \$44.10/ semester \$27.70/semester for Athletic Development
Technology fee, fall or spring semesters <sup>13</sup>		
Undergraduate	\$25.00, \$50.00, \$100.00	\$27.85, \$55.70, \$83.55
Graduate/professional, nondegree students	\$12.00, \$25.00, \$50.00	(varies)
Technology fee, summer sessions <sup>14</sup>		
Undergraduate	\$25.00, \$50.00	\$27.85, \$41.75
Graduate/professional, nondegree students	\$12.00, \$25.00	(varies)
Transcripts	\$9.00	\$7.00
University Division services fee	\$25.00/semester	
Business Undergraduate program fee	\$200.00/semester	

<sup>6</sup>Applicable to both in-state and out-of-state students.

<sup>7</sup>Fee is assessed if deferred billing option is elected.

<sup>8</sup>The health fee is assessed each semester/session on the Bursar's bill for all day and evening students enrolled in more than 3 credit hours. Eligible individuals not covered by the health fee will be seen on a fee-for-service basis.

<sup>9</sup>Any payment due by you to the university that is not received by the due date is subject to a monthly late fee based on a sliding scale of at least \$10.00 (for fees of \$200.00 to \$999.99) and as much as \$50.00 (for \$5,000.00 or more). The late fee will continue to be assessed monthly until the account is restored to good standing.

<sup>10</sup>After drop/add period (100 percent refund period), students will be assessed \$21.00 in Bloomington and \$19.00 in Indianapolis for each added course, section change, change of arranged hours, or credit/audit change. On the Bloomington campus, students will also be assessed for each dropped course.

<sup>11</sup>A late registration fee will be assessed any student who does not register during the scheduled registration period. On the Bloomington campus, the fee is \$54.00 for students who register by the last Friday before classes begin and increases by \$10.00 on the Monday of each successive week to a maximum of \$94.00. On the Indianapolis campus, a \$40.00 late registration fee is in effect upon conclusion of registration through the end of the first week of classes, increasing by \$25.00 the first week, \$20.00 the second week, and \$15.00 the third week to a maximum of \$100.00. In Indianapolis summer sessions, a late registration fee of \$40.00 is assessed the first week, and \$65.00 the second week and thereafter.

<sup>12</sup>Bloomington students enrolled in 3 or fewer credit hours during the fall and spring semesters pay a mandatory student activity fee of \$26.77. Students enrolled in more than 3 credit hours pay \$53.55. Summer-session students pay a fee per session according to the number of credit hours in which they are enrolled: 3 or fewer credit hours, \$13.37; more than 3 credit hours, \$26.77. At Indianapolis, the student activity fee for 1 to 8 credit hours is \$24.25 per semester. Students enrolled in 9 or more credit hours pay \$44.10 per semester. Indianapolis students are also charged a \$27.70 Athletic Development fee each semester.

<sup>13</sup>A technology fee will be assessed according to the number of enrolled credit hours as follows: 3 credit hours or fewer; greater than 3 through 6 credit hours; greater than 6 credit hours.

<sup>14</sup>At Indianapolis, a technology fee is assessed for summer sessions according to the number of enrolled credit hours as follows: 3 or fewer credit hours; greater than 3 credit hours. At Bloomington, summer-session students are assessed half the regular-semester technology fee, based on the number of credit hours as follows: 3 credit hours or fewer; greater than 3 credit hours.

## Course Fee Refund Schedule

Time of Withdrawal	Refund
<b>9- through 16-week classes</b>	
During 1st week of classes	100%
During 2nd week of classes	75%
During 3rd week of classes	50%
During 4th week of classes	25%
During 5th week of classes and thereafter	None
<b>5- through 8-week classes</b>	
During 1st week of classes	100%
During 2nd week of classes	50%
During 3rd week of classes and thereafter	None
<b>2- through 4-week classes</b>	
During the 1st and 2nd day of classes	100%
During 3rd and 4th day of classes	50%
During 5th day of classes and thereafter	None
<b>1-week (or less) classes</b>	
During 1st day of classes	100%
During 2nd day of classes	50%
During 3rd day of classes and thereafter	None
The refund policy applies to credit hour fees and all course-related fees.	

**Procedure** See the *Schedule of Classes* for more information about how to withdraw from classes.

**Student Financial Assistance** Students can obtain information about financial assistance through the financial aid office, through the student employment office, or through their schools and departments. For courses taken in Bloomington, contact the Office of Student Financial Assistance or Human Resources Management for information about faculty/staff fee courtesy; for courses taken at IUPUI, contact the Office of Student Financial Aid Services.

## Veterans Benefits

Eligible students will receive veterans benefits according to the following scale, which is based on the number of credit hours in which the student is enrolled.

Undergraduate Benefits	Bloomington and IUPUI	IUPUI Summer I <sup>1</sup>	Bloomington Summer I	Bloomington and IUPUI
	Fall/Spring Semesters <sup>1</sup>			Summer II <sup>1</sup>
full	12 or more	6	4	6
three-quarters	9-11	4-5	3	4-5
one-half	6-8	3	2	3
tuition only	fewer than 6	1-2	1	1-2
<b>Graduate Benefits</b>				
full	8 or more	4	4	4
three-quarters	6-7	3	3	3
one-half	4-5	2	2	2
tuition only	fewer than 4	1	1	1

<sup>1</sup>Students on the IUPUI campus who are taking Summer I or II classes lasting more than six weeks should check with a VA representative in the Office of the Registrar for positive verification of their benefit status.

It is the responsibility of the veteran or veteran dependent to sign up for benefits each semester or summer session of enrollment. It is also the responsibility of the veteran or veteran dependent on the Bloomington campus to notify the Office of Veterans Affairs of any schedule change that may increase or decrease the amount of benefits allowed. Veterans and veteran dependents on the IUPUI campus should notify the Office of the Registrar.

Veterans with service-connected disabilities may qualify for the Department of Veterans Affairs Vocational Rehabilitation Program. They should contact their regional VA office for eligibility information.

At IUPUI, veterans and veteran dependents must notify their veteran benefit representative in the Office of the Registrar in person at the time of registration.