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College of Optometry

OFFICERS AND FACULTY

OFFICERS
Frederick W. Hebbard, M. D. (The Ohio State University), Dean
Office: 113 Optometry Building
Herbert G. Mote, Jr., Ph.D. (The Ohio State University), Assistant to the Dean
Office: 113 Optometry Building
James F. Noe, B.S., M.A. in Ed. (The Ohio State University), Secretary
Office: 112 Optometry Building
Jess Boyd Eskridge, M. S., O. D. (University of California), Director, Senior Clinic
Office: 244 Optometry Building
Kenton E. Kerr, M. D. (The Ohio State University), Clinical Instructor in Optometry
Office: 122 Optometry Building
Louis Warshaw, B.S., M.A. in Ed. (The Ohio State University), Clinic Coordinator
Office: 122 Optometry Building

FACULTY
Jack W. Albright, B.S. in Optom. (The Ohio State University), Lecturer in Optometry
Neal J. Bulley, Ph.D. (The Ohio State University), Assistant Professor of Physiological Optics and Optometry
Forrest D. Baillie, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
William R. Bennett, B.A., M.A. (Ohio Wesleyan University), Lecturer in Optometry
James C. Bieber, O.D. (The Ohio State University), Clinical Instructor in Optometry
Gordon A. Bixel, Jr., B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
H. Richard Blackwell, Ph.D. (University of Michigan), Professor of Physiological Optics
Thomas A. Brannon, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
John M. Brennan, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Ralph R. Carr, B.S. in Optom., M.S. (The Ohio State University), Instructor in Optometry
Joseph C. Carr, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
John R. Collins, O.D. (The Ohio State University), Clinical Instructor in Optometry
Palmer R. Cook, O.D. (University of Houston), Clinical Instructor in Optometry
Douglas S. Dachenbach, O.D. (The Ohio State University), Clinical Instructor in Optometry
David H. Eberhart, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Jess Boyd Eskridge, M. Optom. (University of California), Ph.D. (The Ohio State University), Associate Professor of Physiological Optics and Optometry
John Eubel, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Sandra M. Farber, M.D. (The Ohio State University), Lecturer in Optometry
Glenn A. Fry, Ph.D. (Duke University), Regents Professor of Physiological Optics and Optometry
Jack M. Furate, M.S., O.D. (The Ohio State University), Assistant Professor of Physiological Optics and Optometry
Paul W. Gamertsfelder, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Charles M. Glenville, O.D. (The Ohio State University), Clinical Instructor in Optometry
David S. Goldschmidt, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Kenneth L. Gorts, O.D. (The Ohio State University), Instructor in Optometry
Roger L. Graybill, O.D. (The Ohio State University), Clinical Instructor in Optometry
Howard F. Haines, B.S. in Optom., M.S. (The Ohio State University), Assistant Professor Emeritus of Optometry
Michael G. Harris, M.S., O.D. (University of California), Instructor in Optometry
Frederick W. Hebbard, Ph.D. (University of California), Professor of Physiological Optics and Optometry
Richard M. Hill, Ph.D. (University of California), Professor of Physiological Optics and Optometry
Carl R. Ingling, Jr., Ph.D. (University of Rochester), Assistant Professor of Physiological Optics
Robert L. Jozwiak, O.D. (The Ohio State University), Clinical Instructor in Optometry
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Gerald E. Lowther, O.D. (The Ohio State University), Clinical Instructor in Optometry
Richard C. McClurg, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Herbert G. Mote, B.S. in Optom., M.S. (The Ohio State University), Assistant Professor of Optometry
James F. Noe, B.S., M.A. in Ed. (The Ohio State University), Secretary of the College of Optometry
Irwin Pass, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Marvin Pfauemer, O.D. (The Ohio State University), Clinical Instructor in Optometry

Frederick W. Hebbard, Dean
Ellsworth E. Reese, B.S. in Optom., M.S. (The Ohio State University), Assistant Professor of Optometry
Daniel Runyan, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
John P. Schoessler, M.S., O.D. (The Ohio State University), Instructor in Optometry
David L. Smith, O.D. (The Ohio State University), Clinical Instructor in Optometry
Stanley W. Smith, Ph.D. (University of Michigan), Associate Professor of Physiological Optics
Robert D. Strohl, O.D. (The Ohio State University), Clinical Instructor in Optometry
William E. Swigert, Jr., B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Gerald Troy, O.D. (The Ohio State University), Clinical Instructor in Optometry
Louis Warshaw, M. Optom., M.P.H. (University of California), Assistant Professor of Optometry
Marvin H. Whitman, B.S. in Optom. (The Ohio State University), Clinical Instructor in Optometry
Bradford W. Wild, M.S. (Columbia University), Ph.D. (The Ohio State University), Associate Professor of Physiological Optics and Optometry
Kenneth S. Zinnecker, B.S. in Optom., M.S. (The Ohio State University), Instructor in Optometry
Objectives, History, and Organization

OBJECTIVES
The program in optometry at The Ohio State University was originally established with the objective of providing international leadership in optometric education and research. This objective has been met in many ways. The College of Optometry continues to strive for the highest standards so that it may retain its reputation for excellence.

The curriculum in optometry is designed to meet the needs of students preparing to practice optometry. The courses are organized to give the student an appreciation of the basic facts of the science of seeing and to ensure special training along the following lines:

1. Competence in executing those services which an optometrist is expected to render in practice.
2. Ability to recognize conditions of the eyes which require special medical service falling outside the sphere of optometric practice.
3. Understanding of the legal, economic, social, and professional phases of optometric practice.
4. Capability to serve as a consultant in vision to schools, government, business, and industry.

The courses in the curriculum also form a basis for further specialization and graduate study in the field of physiological optics.

In addition, the curriculum in optometry includes the major elements of a liberal education. These are designed to introduce students to a wide range of learning, with the aim of helping them to develop into optometrists who are more aware of the problems of society and of their obligations to help in solving such problems.

HISTORY AND ORGANIZATION
The Ohio State University College of Optometry traces its development back to 1914, when a two-year program in optometry was established within the Physics Department. In 1915, this program was extended to four years, leading to the degree Bachelor of Science in Optometry. In 1937, the School of Optometry was established within the College of Arts and Sciences. Effective in 1939, one year of pre-optometry work at the college level was required. In 1946, the five-year curriculum was modified to require two years of pre-optometry work, followed by a three-year professional curriculum in the School of Optometry.

In 1963-1964, the professional curriculum was extended to four years, leading to the degree Doctor of Optometry.

Effective January 1, 1968, the School of Optometry became a separate College of Optometry, one of five professional colleges within The Ohio State University granting specialized doctoral degrees. The others are the Colleges of Dentistry, Law, Medicine, and Veterinary Medicine.

The Ohio State University College of Optometry is fully accredited by the American Optometric Association Council on Optometric Education, which is a member of the National Commission on Accrediting.

FACILITIES

CLINICAL AND LABORATORY FACILITIES
The offices and principal facilities of the College of Optometry are located in the Optometry Building.

Part one of the Optometry Building was completed in 1951. Two floors high, it contains administrative and faculty offices, classroom space, the Lionel Topaz Memorial Library of Visual Science, graduate student offices and research facilities, undergraduate laboratories, the Optometry Museum, and other facilities.

Part two of the Optometry Building is four floors high and was completed in 1961. It contains the Optometry Clinics as well as additional offices, classrooms, laboratories, and research facilities. The classrooms are equipped with closed-circuit television, including videotape equipment, as well as specialized projection equipment and other lecture aids.

A general optometry clinic is maintained and provided with a reception office and waiting room, 24 refracting rooms, an eyewear dispensary, and rooms for visual
field studies and other procedures for detecting eye disease. Suites of rooms are also provided for a contact lens clinic, an aniseikonia clinic, an orthoptics clinic, and a subnormal vision clinic.

The rooms for eye examinations are provided with such modern examination facilities as are used in a well-equipped optometric office. One of the refracting rooms is equipped with television and a videotape recorder, so that after the examination both the student and his instructor can observe and discuss the details of examination techniques.

A wide range of visual training instruments is found in the orthoptics clinic. Binocular ophthalmoscopes, slit lamps, tangent screens, perimeters, tonometers, and other devices are provided for the examination of injured, diseased, and congenitally defective eyes.

The subnormal vision clinic is provided with equipment to determine those types of visual aids that can be used by persons with subnormal vision.

The ophthalmic optics laboratories are newly reequipped. The physiological optics laboratories provide for a wide range of student experience, from classical experiments in vision to those recently perfected utilizing modern electronic apparatus and energy-recording devices. The physiology of the eye and anatomy of the eye laboratories are provided with extensive new equipment and serve as models of innovation.

LIBRARY FACILITIES
The Lionel Topaz Memorial Library of Visual Science is located in the Optometry Building. The Health Center Library is located nearby in Hamilton Hall. A memorial endowment fund contributed by the children and friends of Lionel Topaz provides for additions to The Ohio State University Library holdings in the field of visual science.

The Main University Library, the Health Center Library, the Topaz Library, and other departmental libraries provide a large collection of books and periodicals dealing with all phases of visual science, including geometrical, physical, and physiological optics, theoretical and practical optometry, physiology and psychology of vision, and anatomy and pathology of the eye.

Admission and Registration

PROCEDURE
Candidates for admission to the College of Optometry are selected by a committee consisting of the Dean, the Secretary of the College, the Director or Associate Director of Admissions, and three other members.

Correspondence relative to College admission requirements and interviews should be addressed to: Dean of the College of Optometry, The Ohio State University, 338 West Tenth Avenue, Columbus, Ohio 43210. Requests for applications to the College of Optometry should be addressed to: Admissions Office, The Ohio State University, 190 North Oval Drive, Columbus, Ohio 43210.

Applicants must meet the listed minimum preprofessional course requirements with above-average standing. All candidates for admission to the College of Optometry are selected on a competitive basis considering scholarship, motivation, interest, background, general qualifications for the profession, and personal interview.

REQUIREMENTS FOR ADMISSION TO THE COLLEGE OF OPTOMETRY
For admission without condition, the College of Optometry requires 16 units of
work and graduation from a first-grade high school, and two years (90 quarter-credit hours, exclusive of military science, naval science, or Air Force aerospace studies, physical education, and health education) of pre-optometry work at The Ohio State University, or the equivalent from any other accredited university, college, or junior college.

The point-hour ratio of an applicant must be not less than two points per credit hour (on the basis of four points for grade of A) on all work taken. Applicants with point-hour ratios of 2.5 or higher will be given first consideration by the Admissions Committee.

HIGH SCHOOL REQUIREMENTS

The high school work should include the following:

- English—four units
- United States History (or history and civil governments)—one unit
- Algebra—one unit
- Geometry—one unit
- Biological Science (biology, botany, or zoology)—one unit
- Physical Science (astronomy, chemistry, geology, or physics)—one unit
- One Foreign Language—two units
- Five additional units in these or other studies (making a total of 16 required).

PRE-OPTOMETRY COLLEGE REQUIREMENTS

The 90 quarter hours of college work presented for admission without condition must include 65 quarter hours of credit in the courses listed below or their equivalents. These 65 quarter hours must include Biology 100 or its equivalent, and to be admitted without condition, the applicant must have completed a course equivalent to Mathematics 151. The list of courses includes:

- English 101-102-103
- Biology 100—Zoology 101
- Mathematics 150-151
- Psychology 300
- *Chemistry 121-122-123-231-232
- **Physics 111-112-113
- *Foreign Language (10 quarter hours of one language)
- Humanistic Studies and/or Social Science (19 quarter hours)

*In the case of a student who has taken his pre-optometry work elsewhere, a year of general college chemistry and courses equivalent to Chemistry 231 and 232 will be acceptable for fulfilling requirements in chemistry for admission and graduation. Also, in the case of such a student, a year of general college physics (with laboratory) covering mechanics, heat, sound, light, electricity, and magnetism, will be acceptable in fulfilling the Physics 111-112-113 requirement for admission and graduation.

**This will meet the foreign language requirement for admission if the applicant has taken less than two units of one foreign language in high school. If the applicant has taken two units of foreign language in high school, he can meet the foreign language requirement for the optional Bachelor of Science degree by completing the third and fourth quarters in the same language. It is recommended that applicants wishing to obtain the optional Bachelor of Science degree with a major in physiological optics complete their foreign language before admission to the College of Optometry. Where this is not possible, a student may be required to take foreign language during one or more summer quarters in order to qualify for the B.S. degree.

The requirements in humanities and social sciences are further described on pages 22 and 23.

If a student can present credit for any of the courses required in the first year of the optometry curriculum, this credit may be applied toward the 65-quarter-hour requirement described above.

A cumulative point-hour ratio of 2.00 or better is required on all college work undertaken.

INFORMATION

For further information as to admission requirements, address the Director of Admissions. For information about courses or requirements for graduation, address the Dean, College of Optometry.

PRE-OPTOMETRY COURSES AT THE OHIO STATE UNIVERSITY

The college work prerequisite to admission to the College of Optometry can be obtained at The Ohio State University by registering in University College. The sequence of courses outlined in the first two years of the optometry curriculum will meet the entrance requirements. This sequence of courses not only meets the requirements for admission to the College of Optometry, but also meets the general requirements of the regular Bachelor of Science curriculum in the Colleges of the Arts and Sciences.

Students who have at least a year of credit which can be transferred from other institutions, but not enough to qualify for admission to the College of Optometry, may enroll in the College of Mathematics and Physical Sciences until they become eligible for admission to the College of Op-
tometry. The rules governing the transfer of such students to The Ohio State University are outlined in the General Information for Undergraduates catalog.

An application form for admission to University College or the College of Mathematics and Physical Sciences for the purpose of taking pre-optometry courses may be obtained from the Admissions Office.

INTER-COLLEGE TRANSFERS

Students, with at least one year of credit, in good standing in other colleges of the University, who wish to transfer to the College of Mathematics and Physical Sciences for the purpose of completing the pre-optometry requirements should consult a counselor in the College Office before completing the transfer and before submitting schedule cards for approval. The official transfer from one college to another is made by application to the Admissions Office.

NUMBER TO BE ADMITTED TO THE COLLEGE OF OPTOMETRY

In order to maintain adequate instruction in class and laboratory and to provide ample clinical facilities with the personnel and equipment available, it has been found necessary to limit the number admitted to each class to approximately 45 students. The selection of these students will be based on scholarship and general fitness. The University reserves the right, after examination of all applicants, to determine those who shall be admitted.

ADMISSION WITH ADVANCED STANDING

A student with suitable college credits who wishes to be admitted with advanced standing may be admitted, provided the quota for the class to which he seeks admission has not been filled.

CREDIT FOR WORK COMPLETED ELSEWHERE

Credit for courses completed at institutions other than the Ohio State University College of Optometry may be accepted toward the fulfillment of the course requirements for graduation.

ADMISSION OF OUT-OF-STATE STUDENTS

Preference in admission will be given to Ohio residents, but well-qualified out-of-state students will be accepted, consistent with facilities. It is also possible for out-of-state students with proper qualifications to take the pre-optometry work at The Ohio State University by registering in University College or the College of Mathematics and Physical Sciences.

TIME OF ENTRANCE

The Autumn Quarter is the normal quarter for admission to the College of Optometry since the curriculum is composed of a series of sequence courses. Because many of the required courses are offered only once during each calendar year and because most of the courses require others as prerequisites, it is practically impossible to shape a program that would begin other than in the Autumn Quarter or that would lead to graduation at any other time than the end of the Spring Quarter of some particular year.

APPLICATION FOR ADMISSION

An application for admission should be filed with the Admissions Office between October 1 and March 15 of the academic year preceding anticipated enrollment. Applicants applying after March 15 will be considered if the class is not filled or if vacancies occur.

A complete application will consist of the following:

1. An application for admission, accurately and completely filled out. Appropriate admission forms may be obtained from the Admissions Office. Each initial application for admission to the College of Optometry must be accompanied by a $10 application fee. This fee is not refundable and is not credited against any other fees charged by the University.

2. An official transcript of the record of the applicant. Such transcript shall include the preparatory record, the college record of all work undertaken at any college or university, and a statement showing the applicant to be
in good standing. Ohio State University students need not file transcripts.

3. Recommendations as indicated in the application for admission.

Each student admitted to the College of Optometry is assessed a $15 Acceptance Fee after April 1. This fee is nonrefundable and is not credited to any other fee. Payment of the Acceptance Fee should not be made until receipt of an Acceptance Fee card.

REGISTRATION AND SCHEDULING

DESCRIPTION OF COURSES

The courses in physiological optics and optometry are described elsewhere in this catalog. A description of all other courses is provided in the University Academic Policies and Course Offerings catalog. Course schedules are given in the University Academic Policies and Course Offerings catalog and in a Master Schedule of Classes issued prior to each quarter.

SCHEDULING AND PAYMENT OF FEES

All new students should complete their scheduling on or before September 15. Payment of fees is required of all students by the close of the third business day preceding the first day of classes each quarter.

All fees including penalties must be paid on or before the second Friday of each quarter.

REGISTRATION CONDITIONAL UPON PAYMENT OF FEES

All quarter bills, fees, and laboratory deposits required from students must be paid at the Bursar's Office prior to, and as a condition of, registration for that quarter.

IMPROPER REGISTRATION

Credits earned by a student who has been reported by the Registrar to be improperly registered will not be entered upon the permanent record of the student except by expressed consent of the Faculty Council.

FILING AND CHANGING OF SCHEDULE CARDS

All students are required to present their study programs for the following quarter at the time and place announced by the Registrar, approximately ten days after the date schedules are released, except that students in residence during the Spring and Summer Quarters must present their programs for the Autumn Quarter before September 1.

Student Advising

ORIENTATION

An orientation program will be held, on a day to be specified, several days preceding the opening of classes for the Autumn Quarter, to introduce new students to the faculty, and to acquaint new students with rules, regulations, and procedures in the College of Optometry. Attendance at this program is required.

COUNSELING AND ADVISING SERVICES

Counseling is available in the Office of the College of Optometry, both to optometry and pre-optometry students. Pre-optometry students also receive counseling from the colleges in which they are registered to take their pre-optometry studies—University College for freshmen or sophomores, or the College of Mathematics and Physical Sciences for sophomores. Pre-optometry students at other universities who wish to attend the Ohio State University College of Optometry are encouraged to write the Dean of the College of Optometry for help in planning suitable programs which meet the admission requirements. A student in the College of Optometry who is enrolled in the B.A.- or B.S.-Optometry program or in the Graduate-Optometry program will be assigned a specific faculty member as adviser.

CAREERS IN OPTOMETRY

Most optometrists enter the private practice of optometry. In the past, the majority of private practices consisted of an individual optometrist assisted by one or more optometric aides. However, the trend is now toward practices in which several optometrists are associated, each with major areas of interest. Various areas of specialization within optometry include the fitting of contact lenses, the examination and optical rehabilitation of aniseiko-
nia and partial vision, the diagnosis and rehabilitation of problems involving binocular coordination and visual perception, and the analysis and solution of visual problems associated with industry, aviation, school work, automobile driving, and other forms of transportation. The goal is to provide clear, comfortable, safe, and efficient vision to individuals, not only through optical means, but also by making recommendations for improving the visual environment by better illumination, improved visibility of objects, and better design of equipment. Optometrists are also employed by hospitals and clinics and by federal, state, and local agencies. A sizable number of optometrists serve as Optometry Officers in the Army, Navy, or Air Force, or in the U. S. Public Health Service. Currently, optometrists after graduation enter the service with the rank of Captain in the Army, First Lieutenant in the Air Force, or Lieutenant junior grade in the Navy. Optometrists are also employed by industry and government in various research and development areas. Optometrists are involved, for example, in NASA programs and those of major aircraft companies, as well as the larger optical manufacturing companies. The need also exists for optometrists to teach in colleges of optometry. The University offers graduate programs in physiological optics for those optometrists interested in careers in education or research.

MEDALS, PRIZES, AND HONORS

Epsilon Psi Epsilon Merit Award. The Epsilon Psi Epsilon fraternity has established an award for the outstanding junior student in the College of Optometry. This award is made on the basis of scholarship, character, and general fitness for the study of optometry.

Bing Memorial Award. An endowment of The Ohio State University, established February 20, 1947, by a gift through the Ohio State Optometric Association in honor of Dr. James A. Bing, provides each year an award to a student graduating from the College of Optometry, in recognition of outstanding work in perceptual seeing. The amount of the award for the current year will be $100. Each student competing for this award must submit a paper describing an original study on a subject related to visual perception.

Membership in Beta Sigma Kappa. Students who achieve point-hour ratios of at least 3.00 on work taken while enrolled in the College of Optometry up through the quarter prior to graduation are recommended for membership in Beta Sigma Kappa, an optometric international honorary fraternity.

Beta Sigma Kappa Silver Medal. The medal is presented each year to the member of the graduating class having achieved the highest point-hour ratio on work completed while enrolled in the College of Optometry.

Honor List. Early in each quarter the College of Optometry publishes an Honor List including the name of each student in optometry who maintained a 3.5 or better average during the preceding quarter.

PROFESSIONAL REQUIREMENTS

Before obtaining a license to practice optometry in a given state or the District of Columbia, a graduate must pass written and practical examinations given by the Board of Optometry of that state. A number of states accept passing of the written examination of the National Board of Examiners in Optometry in lieu of their own state written examinations. The National Board of Optometry examination is given in two parts at each college of optometry in the U.S. in May of each year. Part I, involving the basic sciences, may be taken during the junior year, and Part II, largely involving clinical sciences, may be taken during the senior year. The College is accredited so that its graduates are eligible to take optometry board examinations in each of the 50 states, as well as the District of Columbia.

PLACEMENT PROGRAM

Graduates of the College of Optometry may obtain advice at the College Office concerning the opportunities in private practice or in other optometric careers. Such assistance is also available in Ohio from the Ohio Optometric Association. Other state optometric associations offer similar services.
Financial Information

FEES AND EXPENSES

Pre-optometry students pay the fees listed for students enrolled in the Colleges of the Arts and Sciences. The fees listed below apply to students enrolled in the College of Optometry.

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<th>Fee</th>
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<tbody>
<tr>
<td>Application fee (nonrefundable)</td>
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<td>15</td>
</tr>
<tr>
<td>University fee*</td>
<td></td>
</tr>
<tr>
<td>Quarter fee for a resident of Ohio</td>
<td>208</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>408</td>
</tr>
<tr>
<td>Term fee</td>
<td>104</td>
</tr>
<tr>
<td>Term nonresident fee</td>
<td>204</td>
</tr>
</tbody>
</table>

*The University reserves the right to change these fees without advance notice.

Students who in the Summer Quarter register only for courses available to students in the Colleges of the Arts and Sciences will pay the same fees as students in the Colleges of the Arts and Sciences, but may continue to be enrolled in the College of Optometry.

Detailed information concerning fees and expenses and, in particular, special fees not included above, given in the University Academic Policies and Course Offerings catalog, applies to students enrolled in the College of Optometry.

COST OF A YEAR'S WORK

In order to furnish information, there is listed below an estimate of the average payments required by the University for the first year in optometry and the estimated cost for room and board. Fees to the University are paid prior to the beginning of each quarter.

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee (nonrefundable)</td>
<td>$10</td>
</tr>
<tr>
<td>Acceptance Fee (nonrefundable)</td>
<td>15</td>
</tr>
<tr>
<td>University Fee</td>
<td>624</td>
</tr>
<tr>
<td>Book and Instruments</td>
<td>120</td>
</tr>
<tr>
<td>Room and Board in Private Homes—Men</td>
<td>900</td>
</tr>
<tr>
<td>Room and Board in Residence Halls—Men</td>
<td>978</td>
</tr>
<tr>
<td>Room and Board in Residence Halls—Women</td>
<td>978</td>
</tr>
<tr>
<td>Total (Men in Private Homes)</td>
<td>1,678</td>
</tr>
<tr>
<td>Total (Men in Residence Halls)</td>
<td>1,747</td>
</tr>
<tr>
<td>Total (Women in Residence Halls)</td>
<td>1,747</td>
</tr>
</tbody>
</table>

*Nonresident fee $200 additional per quarter. Fees to the University must be paid before the beginning of each quarter. In order to meet the necessary expenses of registration, books, required deposits, and one quarter's payment for room and board, the beginning out-of-town student should come prepared to spend $500 to $600 during the first ten days of a quarter—$200 more if he is not a resident of Ohio.

REGISTRATION OF STUDENT AUTOMOBILES

In the interest of safety and orderly traffic, students must register any motor vehicles they expect to operate and/or park on University grounds. A fee is charged and
14 FINANCIAL INFORMATION

a fee card is provided for registration. (See the University Academic Policies and Course Offerings catalog.)

STUDENT PERSONAL EXPENSE FUNDS
The incoming student will save himself much time and trouble by taking a few simple precautions in regard to his personal expense money. The student should bring enough cash to cover all expenses for several days. If he does not wish to carry cash, he should use travelers checks, since they are readily cashed. If he does bring a check, it should be in the form of a bank draft or cashier’s check. Checks that are for payment of fees are to be drawn for the exact amount of the fees.

WITHDRAWAL FROM THE UNIVERSITY
A student who desires to withdraw from the University must apply to the Dean of the College for permission to withdraw. No student may withdraw within two weeks of the beginning of examinations unless the reports of his instructors show that his record as of that date is satisfactory.

RETURN OF FEES
Fees (except for the application and acceptance fees) are returnable in part if a student withdraws from the University for any cause other than at the request of the University and if such withdrawal is made within the specified period of time. (See the University Academic Policies and Course Offerings catalog.)

RULES GOVERNING RESIDENT STATUS
1. Every student who is not an Ohio resident, as defined by the University, is required to pay out-of-state tuition in addition to University fees.
2. The burden of registering under proper residence is placed upon the student. If there is any question as to residence status, the matter should be brought to the attention of the Registrar and resolved prior to enrollment. (See Policies of Residence Determination, the University Academic Policies and Course Offerings catalog.)

MEDICAL EXAMINATION FOR NEW STUDENTS
All students entering the Ohio State University are required to present evidence of a medical examination. (See the University Academic Policies and Course Offerings catalog.)

HOUSING
LIVING ARRANGEMENTS
The immediate responsibility for housing has been delegated to the Office of Student Housing.

MEN’S HOUSING
Various residence hall facilities are available. Approximately 8,000 male students can be accommodated in permanent residence halls. All contracts for these facilities are for room and board and for the academic year. Prices range from $275 to $300 per quarter.

Some of the above-mentioned facilities offer housing during the Summer Quarter as well as during the academic year.

All men applying for admission to the University should complete the housing questionnaire in the official admission application. This information will be forwarded to the Office of Student Housing, and that office then will send the appropriate housing information. University residence hall applications will be sent as long as space permits, after which information will be disseminated concerning rooming houses and private homes. Since the housing request will be forwarded automatically from the Admissions Office, it is not necessary to request initial housing information separately.

Furnished rooms in off-campus rooming houses in the city of Columbus also provide housing for a number of men students. The rates vary from $30 to $35 a month for single rooms, $20 to $30 for double rooms (per student). Students entering the University during Autumn Quarter should visit Columbus several weeks prior to beginning of classes in the quarter they are entering. A listing of available rooms is maintained in the Office of Student Housing, Room 309, Pomerene Hall.
The George Wells Knight International House, 104 East 15th Avenue, offers desirable living quarters to a limited number of International and American students. Application should be made to the International Student Adviser, 104 Lord Hall, 124 West 17th Avenue, Columbus, Ohio 43210.

Men's Fraternities
Most fraternities on the Ohio State University campus have their own houses in which they provide room and board for their members. These houses are inspected by the city and must meet certain health and safety requirements prescribed by the city. Prospective students who are interested in general information concerning these organizations should write the Office of Student Housing, Room 309, Pomerene Hall, 1760 Neil Avenue, Columbus, Ohio 43210.

Women's Housing
Every undergraduate woman student must register with the Office of the Associate Dean of Student Relations in Pomerene Hall during the first week of Autumn Quarter or the first quarter in residence during the academic year.

All living arrangements for women are under the supervision of the Office of Student Housing. All women applying for admission to the University should complete the housing questionnaire in the official admission application. This information will be forwarded to the Office of Student Housing, and that office then will send appropriate housing information. University residence hall applications will be sent as long as space permits, after which information will be disseminated concerning rooming houses and private homes. Since the housing request will be forwarded automatically from the Admissions Office, it is not necessary to request initial housing information separately.

Freshmen and other students who desire to work for room and board in private homes may make such arrangements, and those who desire to live with relatives in Columbus may be given permission to do so. After University Residence Halls are filled, students or their parents must consult the Office of Student Housing in person for housing accommodations.

FOR FURTHER DETAILED INFORMATION
Booklets and other sources of information about the various kinds of living quarters will be promptly sent to anyone who inquires. Such information will include detailed description of residence halls and houses, as well as prices for the various types of accommodation. Address requests for booklets to the Office of Student Housing, Pomerene Hall, 1760 Neil Avenue, The Ohio State University, Columbus, Ohio 43210.

Married Student Housing
Four hundred apartments for married students were recently completed. These are one- and two-bedroom units located less than a mile from the center of the campus.

All of these apartments are unfurnished except for range, refrigerator, and disposal. Rents of $82 for one-bedroom units and $92 for two-bedroom units include heat and water. Some units are permanently air-conditioned, and these rent for an additional $4 per month.

Married students may request a married student housing folder and an application from the Director, Buckeye Village, 2661 Defiance Drive, Columbus, Ohio 43210.

Since the total number of married students is so large, it is necessary that the majority of students who are married find living quarters elsewhere. Lists of rental houses and apartments near the campus and in Franklin County are maintained in Room 309, Pomerene Hall, 1760 Neil Avenue, Columbus, Ohio 43210.

Registration of Student Addresses
All men and women students are required to furnish to the University their permanent and current local addresses. Each change of address must be reported, within five days of its occurrence, to the Registrar, who will notify the College Office and the Office of Student Housing.
Financial Aid Information

Student employment, the Work-Study Program, loans, grants, and scholarships are administered in the Student Financial Aids Office, Student Services Building, 154 West 12th Avenue.

The following only summarizes available resources. Full details concerning the various University financial aid programs can be found in the University Academic Policies and Course Offerings catalog.

STUDENT EMPLOYMENT

The Student Employment Office serves registered students and their spouses by providing them with information on job opportunities both on and off campus. Those interested may contact the office for referral to employment opportunities.

Specific skills, employment experience, academic record, and available time largely determine placement of referred applicants.

WORK-STUDY PROGRAM

The College Work-Study Program provides financial aid through employment to college students who, without such assistance, would not be able to attain a higher education. This program is a part of the Economic Opportunity Act of 1964.

To be eligible, students must demonstrate financial need based on family income and other resources, qualify academically, and be able to work up to 15 hours per week while maintaining satisfactory grades. A student employed under this program can earn up to $100 per month.

LOANS

Several loan funds are available to students through the Student Financial Aids Office. The major criteria for eligibility for the following loans are good academic standing and financial need.

HEALTH PROFESSIONS STUDENT LOANS

The federal government has made provisions for dental, medical, veterinary, pharmacy, and optometry students with demonstrated financial need to borrow a maximum of $2,500 per academic year.

For loans granted after Spring Quarter 1969, repayments and 3 percent interest begin one year after graduation or withdrawal and must be completed in ten years. There are provisions for deferment of repayment for Peace Corps service, military duty, and advanced professional training, including internships and residencies. The debt may be canceled in the event of death or total disability.

UNIVERSITY LOANS

University loans are granted for short-term needs as are loans with repayment of $25 monthly, effective six months after graduation, with interest averaging 3 percent.

Emergency loans of $50 maximum with 90-day repayment are available for educational needs anytime during the academic year or until all funds are loaned.

Students interested in submitting application for Health Professions or University loans must adhere to the following schedule of application periods:

Autumn Quarter...........July 15-August 15*
Winter Quarter...........October 15-November 15*
Spring Quarter...........January 15-February 15*
Summer Quarter.........April 15-May 15*

* Denotes application periods for Health Professions Loans.

FEDERAL GUARANTEE BANK LOAN PROGRAM

The Higher Education Act of 1965 established a federal program of low-cost guaranteed loans. Explanatory material and a list of participating banks can be obtained in the Student Financial Aids Office. Interested students should then contact their local banks for further details. This plan allows a student to borrow a maximum of $1,000 per year.
SCHOLARSHIPS

General University Scholarships with stipends from $150 to $800 are available to students in the professional colleges. High academic record, need, and field of study comprise the major selection factors. Applications may be secured in the office of the Director, Student Financial Aids, Student Services Building.

APPLICATION PROCEDURES

Professional students now attending The Ohio State University should request an “Enrolled” application at the Student Financial Aids Office. Deadline for scholarship application is March 15.

Professional students from other colleges must have completed their admission to Ohio State University before being considered for scholarships. Applications submitted before March 15 receive preference.

HEALTH PROFESSIONS SCHOLARSHIP GRANTS

Health Professions Educational Assistance Amendments of 1965 created a program of scholarship grants of up to $2,500 per year to students in the Colleges of Dentistry, Medicine, Optometry, and Pharmacy. They are restricted to students from low-income families who could not pursue the professional course of study for the year without such assistance.

SPECIAL SCHOLARSHIPS

IN THE COLLEGE OF OPTOMETRY

Emil H. Arnold Memorial Scholarships in Optometry

Scholarships of $500 each are offered to entering students who reside in the state of Michigan. In order to qualify for consideration, an applicant must have earned at least a B average in his pre-optometry college courses. The pre-optometry courses may be completed in any accredited junior college, college, or university. Recipients will be eligible for renewal of their scholarships for the same amount each year of their enrollment in the College of Optometry if they maintain B averages or better. These scholarships are provided by a grant to The Ohio State University by the late Dr. Emil H. Arnold, Ann Arbor, Michigan. Interested students may communicate with the Dean, College of Optometry, The Ohio State University, 338 West Tenth Avenue, Columbus, Ohio 43210.

Academic Requirements

REQUIREMENTS FOR A PROFESSIONAL DEGREE

To obtain a professional degree from this university, a professional student must have met the minimum requirements established by the college recommending the degree and approved by the Board of Trustees.

GRADUATION

POINTS REQUIRED FOR GRADUATION

The number of credit points required for graduation shall amount to not fewer than 2.00 times the number of credit hours undertaken at this institution. (For Point System, see page 18.)

In addition to the above requirement, a cumulative point-hour ratio of at least 2.0 must be made on all courses taken at this university, which are included in the professional curriculum in optometry.

HOURS REQUIRED FOR GRADUATION

A minimum of 200 credit hours is required for graduation with the degree Doctor of Optometry. These credit hours are earned in applicable courses while in the College of Optometry. Credit for courses taken after admission to the College to remove admission deficiencies, or in courses not related to the curriculum in optometry, will not apply toward these 200 hours. Students admitted with advanced credit for courses in the optometry curriculum may apply such credit to the 200 hours, with approval of the Dean. However, the minimum number of hours credit for graduation, including pre-optometry work, is 290 quarter hours in approved courses. A student may find it necessary to earn more than 200 hours to complete the requirements of the College of Optometry.

DEGREE

Upon the satisfactory completion of the optometry curriculum, the student will be recommended for the degree Doctor of Optometry.

Application for Degree

Students enrolled in the final year required for a degree are expected to file their appli-
cations for the degree with the Secretary of the College of Optometry during the first quarter of that final year. Forms are provided at the College Office.

COMMENCEMENT—CONVOCATION
A special Convocation or Commencement shall be scheduled at the close of each quarter for the conferring of degrees upon candidates who have fulfilled all the requirements of their respective courses.

Attendance at Convocation Exercises. Each candidate for a degree is required to be present at his graduate convocation unless excused by the President.

GRADUATION WITH HONORS
Graduating optometry students are granted their degrees cum laude if their cumulative point-hour ratios are 3.5 or higher for applicable courses taken while in the College of Optometry. The degrees are granted summa cum laude if the cumulative point-hour ratios are at least 3.80.

EXAMINATION FOR GRADING SYSTEM

COURSE EXAMINATIONS
At the close of each course, a written examination will be given, except that in laboratory and seminar courses, such examinations shall be optional with the instructor concerned.

EXAMINATION SCHEDULES
Scheduling of examinations in classes, the enrollment in which consists exclusively of students registered in the Colleges of Dentistry, Law, Medicine, Optometry, Pharmacy, or Veterinary Medicine, shall be done by the administrative offices of these colleges. All other examinations shall be centrally scheduled by the Office of the Registrar.

ACADEMIC MISCONDUCT
Students found guilty of academic misconduct, as defined in Rule 29.2721, shall be subject to a penalty imposed by the Vice President for Student Affairs upon appropriate recommendation following the procedure outlined in Rule 29.2721.

STUDENT RESPONSIBILITY
The student is responsible for knowing his own standing scholastically in reference to the published regulations and standards of the University and of his college.

Copies of the Official Student Handbook of Rules and Regulations are available at the Registrar's Office. Each student should be familiar with the contents of this booklet.

THE MARKING SYSTEM AND THE POINT SYSTEM
The grade marks given in all colleges of the University are as follows:

A Highest quality of passing work; for each credit hour, 4 credit points shall be allowed.
B Second quality of passing work; for each credit hour, 3 credit points shall be allowed.
C Third quality of passing work; for each credit hour, 2 credit points shall be allowed.
D Lowest quality of passing work; for each credit hour, 1 credit point shall be allowed.
E Failed. This mark indicates (1) that the student has done failing work or (2) that he was absent from the final examination without excuse and his work in the course did not justify a passing mark. Credit for a course in which an E has been received can be obtained only by repeating and passing the work in class. (See Rule 37.09.)
I Incomplete.

Section 1. An I indicates (1) that the work of the student in the small fraction remains to be completed; or (2) that the record of the student in the course justifies the expectation that he will obtain a passing mark, but he has been unavoidably absent from the final examination.

Section 2. The mark I shall be reported on the grade card together with the mark which the Registrar is authorized to enter on the student's official record if the work is not completed and a different mark reported to the Registrar in the manner and within the time hereinafter provided. The instructor shall also furnish the chairman of the department or the
director of the school with a statement of the work required to be completed.

Section 3. The student must complete the work, and the instructor must report the final mark at the earliest possible time, but not later than six weeks following the quarter in which the I was received. Upon the petition of the student within the six weeks' period the executive committee of the college in which the student is enrolled (or, if not enrolled, of the college of last enrollment) may for good reason allow a student additional time in which to complete the work. Generally, this shall not be longer than the end of the quarter following the quarter in which the I was received. Any decision of the executive committee extending the period shall set forth the time in which the student shall complete the work, and a copy of the decision shall be forwarded to the Registrar.

P Progress. This mark indicates that the student has shown satisfactory progress in courses that extend over more than one quarter. Until such time as a final mark is recorded, the credit hours in a P course shall not be counted for any purpose.

R Audit. This mark indicates that the student has registered to audit the course. No credit hours shall be awarded for this mark. (See Rule 37.11.)

S Satisfactory. This mark shall be used as a final mark only for (a) a graduate student who has completed satisfactorily his thesis or dissertation research, (b) a graduate student who has completed satisfactorily a special problem or minor problem course in which the instructor works directly with the individual graduate student, (c) a graduate student who has completed satisfactorily a literature review course or seminar designated by the Dean of the Graduate School as qualifying for the mark of S, or (d) a student enrolled in the College of Medicine in a curriculum leading to the degree Doctor of Medicine, when that student has completed satisfactorily a course in that curriculum. A student who would be entitled to the mark of S if he had completed his work satisfactorily but who does not complete his work satisfactorily shall receive the mark of E. S credit shall be counted as hours only and shall not be considered in determining a student's point-hour ratio under Rule 37.05.

T Temporarily excused. This mark applies only to military science, Air Force aerospace studies, or naval science, physical education, or health education. No credit hours shall be awarded to a course in which a student received a T mark.

X Permanently excused. This mark applies only to military science, Air Force aerospace studies, or naval science, physical education, or health education. No credit hours shall be awarded to a course in which a student received an X mark.

Em Examination.

Section 1. This mark indicates credit given to students registered in the University on the basis of examinations taken prior to or after admission to the University. The level of achievement which must be demonstrated by the student on these examinations in order to receive Em credit shall be determined by the department or school in which the course for credit is being given is taught. This credit, up to a maximum of 45 quarter credit hours, shall be assigned only upon the authorization of the chairman of such department or the director of such school and with the approval of the executive committee of the college in which the student is registered. An additional 15 examination quarter credit hours may be assigned in the same manner but only with the approval of the Faculty Council.

Section 2. Examination credit shall not be given to a student for a course in which he has received a mark at this university. No credit points are allowed for courses in which a mark of Em is given.

K Credit. This mark shall be used for work credited from other institutions and service schools and by the Director of Admissions only. K credit shall be counted as hours only and shall not be considered in determining a student's point-hour ratio under Rule 37.05.
Academic Programs

OPTOMETRY
B.A. or B.S.—OPTOMETRY
GRADUATE—OPTOMETRY
CONTINUING EDUCATION
GRADUATE

UNIVERSITY REQUIREMENTS IN THE OPTOMETRY CURRICULUM

The preprofessional curriculum in optometry includes a body of courses designed to ensure that each student is given the opportunity to become acquainted with the three basic areas of academic study—the humanities, the social sciences, and the natural sciences. The objectives of this part of the curriculum, as set forth by the University faculty, are as follows:

Humanities. The objectives are to introduce the student to his possibilities for continuing growth as a thoughtful and reasoning person, sensitive to the aspirations and attainments of others; to acquaint him to at least some degree with the treasures of human thought and expression at his command; and to develop in him a continuing desire to have his full share of the legacy of all creative efforts.

Social Sciences. The objectives are to make sure that the student has at least a basic understanding of the fundamental ideas upon which our society has been built, the social institutions through which these ideas have been given effective meaning, and the never-ending process of development through free choice limited only by concern for the rights and well-being of others. Emphasis will be put upon the values of a free society and the responsibility of the individual for participating actively in the issues and the decisions of the day.

Natural Sciences. The objectives are to acquaint the student with the kinds of problems which lend themselves to possible solutions through the use of science, to introduce him to differing scientific techniques through significant illustrative experience, to give him a sense of perspective in the development of science, and to develop in him an understanding of the basic community of all scientific disciplines.

PREPROFESSIONAL CURRICULUM

Outlined below is the pre-optometry curriculum offered at The Ohio State University.

First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTUMN</td>
<td>English 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Chemistry 121</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Mathematics 150</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Humanities*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>WINTER</td>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Chemistry 122</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Mathematics 151</td>
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<td></td>
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<td>3</td>
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<tr>
<td></td>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Health Education</td>
<td>1</td>
</tr>
<tr>
<td>SPRING</td>
<td>English 103</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Chemistry 123</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Biology 100</td>
<td>5</td>
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<tr>
<td></td>
<td>Humanities*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Education</td>
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</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTUMN</td>
<td>Physics 111</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Zoology 101</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Chemistry 251</td>
<td>5</td>
</tr>
<tr>
<td>WINTER</td>
<td>Physics 112</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Science*</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Chemistry 232</td>
<td>5</td>
</tr>
<tr>
<td>SPRING</td>
<td>Physics 113</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Physiology 300</td>
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</tr>
<tr>
<td></td>
<td>Social Science*</td>
<td>5</td>
</tr>
</tbody>
</table>

* Requirements in foreign language, social sciences, and humanities are described on pages 22 and 23.

PROFESSIONAL CURRICULUM AND REQUIREMENTS FOR GRADUATION

In order for a student to graduate he must, in addition to completing the entrance requirements as outlined on pages 8 and 9, obtain credit for the courses listed below.

First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTUMN</td>
<td>Zoology 234</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Physiology 601</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 401</td>
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<tr>
<td></td>
<td>Physics 435</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physics 437</td>
<td>2</td>
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<tr>
<td>WINTER</td>
<td>Zoology 530</td>
<td>5</td>
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<tr>
<td></td>
<td>Physiology 602</td>
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<tr>
<td></td>
<td>Physics 486</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physics 438</td>
<td>2</td>
</tr>
<tr>
<td>SPRING</td>
<td>Microbiology 509</td>
<td>5</td>
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<tr>
<td></td>
<td>Physiological Optics 611</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Physiological Optics 608</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 411</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTUMN</td>
<td>Physiological Optics 612</td>
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</tr>
<tr>
<td></td>
<td>Optometry 441</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Pathology 650</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physical Optics 620</td>
<td>4</td>
</tr>
<tr>
<td>WINTER</td>
<td>Optometry 442</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physiological Optics 613</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Physiological Optics 614</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Optometry 431</td>
<td>5</td>
</tr>
<tr>
<td>SPRING</td>
<td>Optometry 443</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Optometry 432</td>
<td>4</td>
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<tr>
<td></td>
<td>Optometry 701</td>
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</tr>
<tr>
<td></td>
<td>Physiological Optics 715</td>
<td>5</td>
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</table>
### Third Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Optometry 702</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Optometry 641</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Optometry 433</td>
<td>4</td>
</tr>
<tr>
<td>Winter</td>
<td>Optometry 642</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 652</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physiological Optics 716</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 653</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td>Optometry 643</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 651</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Psychology 510</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Optometry 654</td>
<td>4</td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Physiological Optics 732</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 741</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Optometry 660</td>
<td>6</td>
</tr>
<tr>
<td>Winter</td>
<td>Physiological Optics 730</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 721</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Optometry 742</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Psychology*</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>Physiological Optics 731</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Optometry 722</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Optometry 743</td>
<td>8</td>
</tr>
</tbody>
</table>

*This requirement may be met by taking any one of the following courses:

- Psychology 620
- Psychology 501
- Psychology 451
- Psychology 640
- Psychology 330

Students admitted without credit for Psychology 300 will be required to complete it before taking one of the preceding courses.

### FOREIGN LANGUAGE

To be admitted without deficiency to the College of Optometry a student must have completed either (1) two units of one foreign language in high school; or (2) 10 quarter hours (or the equivalent) of one foreign language in college. To complete the Optometry Curriculum and receive the B.A. or B.S. degree with a major in physiological optics, a student is required to achieve such proficiency in a particular foreign language as is evidenced by the successful completion of the fourth regular University course or its equivalent in that foreign language. High school units in foreign language are counted so that one high school unit equals 5 hours of college work. Successful completion of four 5-hour classes in a single language will meet this requirement. Students may meet the requirements by continuing a foreign language begun in high school provided they successfully complete the fourth 5-hour course, or its equivalent, while in college. Students who have earned four units in a single language in high school will have met this requirement if they demonstrate their competence to enter the fifth 5-hour course in that language in an appropriate placement test. This requirement may be met also by successfully completing German 101-117-118; French 101-162-163; or Spanish 101-162-163.

### SOCIAL SCIENCES

Each pre-optometry student must complete:

- History 102

and must elect a minimum of 5 hours in addition from the following courses:

- History 101
- Political Science 100, 225, 275
- International Studies 100, 230, 235
- Sociology 101, 290
- Anthropology 210, 261
- Geography 200, 240, 340
- Economics 201

Each optometry student working toward the B.S. degree must elect a minimum of 10 hours, instead of 5, from the preceding courses.

### HUMANITIES

Each pre-optometry student must schedule a minimum of 9 hours in the humanities, chosen from Group A. Each optometry student working toward the B.S. degree must take at least 15 hours in the humanities, of which at least 5 must be from Group B, with 9 or 10 from Group A.

#### GROUP A—LITERATURE

Courses in English

- Chinese 251
- Classics 220, 221, 222, 224, 225
- Comparative Literature 101, 102, 103
- English 220, 240, 260, 261, 262, 280, 290, 293, 294, 296, 299
- French 271
- German 261, 262
- Japanese 251, 252
- Russian 420, 421, 622
- Slavic 519
- Spanish 271

Courses in Foreign Languages

- French 421, 422, 423
- German 225, 226, 227
- Greek 200
- Italian 421, 422, 423
- Latin 200, 201, 202
- Russian 475, 476, 477
- Spanish 421, 422, 423
GROUP B—OTHER HUMANITIES
Chinese 271
Fine Arts 110, 111, 210, 211, 212
Linguistics 201, 202
Music 141, 142, 143, 241, 242, 243
Philosophy 100, 101, 130, 150, 210
Theatre 165, 671, 672, 673

ATTENDANCE AT SUMMER SCHOOL
Students who wish to take courses offered during the Summer Quarter may continue being enrolled in the College of Optometry. The fees for Summer School are explained in the section on fees and expenses.

The following courses in optometry and physiological optics are offered as quarter courses during the Summer Quarter:
Optometry 641
Optometry 642
Optometry 643
Optometry 745
Physiological Optics 693
Physiological Optics 999

Consult the University Academic Policies and Course Offerings catalog for prerequisites, course descriptions, and credits.

CONCURRENT PROGRAM LEADING TO THE DEGREE BACHELOR OF ARTS OR BACHELOR OF SCIENCE
A student who is working toward the degree Doctor of Optometry may pursue also a parallel program leading toward the degree Bachelor of Arts or Bachelor of Science in the College of Mathematics and Physical Sciences with a major in physiological optics. Since this program, unlike combination curricula, is one of dual registration without any modification of the degree requirements of either college, schedules must be arranged to provide for a minimum of 45 hours to be earned between the granting of the first degree and the second. In this program, as in other programs leading to the degrees Bachelor of Arts and Bachelor of Science, a student may elect to work toward a degree with distinction. Departmental honors and degrees with distinction are described in the section on honors programs in the College of Mathematics and Physical Sciences catalog.

CONCURRENT REGISTRATION IN THE COLLEGE OF OPTOMETRY AND THE GRADUATE SCHOOL
A student who is registered in the College of Optometry of this university, and who also wishes to enroll for graduate study, may be registered concurrently in the Graduate School if he has the proper qualifications for admission. To secure this concurrent registration, the student must first obtain from the Director of Admissions an admission card to the Graduate School.

When a student is registered concurrently in the Graduate School and in the College of Optometry, he may count not more than 15 hours of professional coursework toward the master's degree and not more than 30 quarter hours of such work toward the Ph.D. degree. These professional courses must be approved for graduate credit in order to be used as credit toward a graduate degree. An advisory committee in the College of Optometry shall approve the program of graduate work proposed by each candidate for admission to the dual curriculum. The approved program must be submitted to the Dean of the Graduate School for approval before the student begins his graduate work. (For further information, consult the Graduate School catalog.)

CONTINUING EDUCATION PROGRAMS
Courses of instruction lasting up to three days are offered throughout the school year with the objective of maintaining the competence of the practitioner in both general and special areas of practice. These programs are presented by members of the College faculty and by noted faculty members from other campuses. Separate brochures describing the Continuing Education Programs for each school year are available from the College.

For more detailed information regarding continuing education in the College of Optometry write to the Dean, College of Optometry, The Ohio State University, 338 West Tenth Avenue, Columbus, Ohio 43210.

GRADUATE PROGRAMS
Optometrists who are graduates of accredited colleges of optometry in the U.S., Canada, Australia, New Zealand, or Great Britain may apply to the Graduate School
to work toward the M.S. or Ph.D. degree in physiological optics. For further information, consult the Graduate School catalog or write the Chairman of the Graduate Committee in Physiological Optics, College of Optometry, The Ohio State University, 338 West Tenth Avenue, Columbus, Ohio 43210.

Rules Governing Deficiencies In Scholarship

ABSENCES
If a student is absent from a course to such an extent as to imperil his credit, or is notably irregular in attendance, it shall be the duty of the instructor concerned to report the facts promptly to the dean of the college in which the student is enrolled. The dean may take such action as he deems appropriate.

WITHDRAWAL
Regulations governing withdrawal from a course or from the University may be found in the University Academic Policies and Course Offerings catalog.

REMOVAL OF FAILURE IN REQUIRED COURSE
The student is responsible for repeating in class, at his first opportunity, a required course in which he has failed, unless the Executive Committee of the College authorizes a substitute course.

MINIMUM SCHOLASTIC REQUIREMENTS
The academic standards controlling warning, probation, and dismissal of professional and graduate students shall be established by rule by the faculty of the college in which the professional student is registered, or of the Graduate School if the student is a graduate student.

The promulgation of these rules, and their amendment or repeal, shall be subject to the approval of the Board of Trustees.

A transfer student from another university who is admitted to advanced standing in this university shall be treated as though his entire residence had been at this university, but his point-hour ratio will be computed only upon work done at this university.

Admission to quarters beyond the first quarter shall be conditioned as follows:

1. To the second or third quarter, attainment of a minimum point-hour ratio of .75 for the immediately preceding quarter;
2. To the fourth, fifth, or sixth quarter, attainment of a minimum cumulative point-hour ratio of 1.70 at the end of the immediately preceding quarter, or of a point-hour ratio of 2.00 or better, on a minimum of 12 quarter hours, for the quarter immediately preceding;
3. To the seventh quarter, attainment of a cumulative point-hour ratio of 1.90 at the end of the sixth quarter;
4. To the eighth or any subsequent quarter, a minimum cumulative point-hour ratio of 2.00 at the end of one of the student's two and immediately preceding quarters.

WARNING AND PROBATION
Any student subject to the provisions of the minimum scholastic requirements rule who fails to achieve a point-hour ratio of 2.00 on the work of any quarter shall be warned and his parents or guardian notified by the University Registrar on behalf of the dean of his college.

Any student subject to the provisions of the minimum scholastic requirements rule whose cumulative point-hour ratio is below 1.70 at the end of the third, fourth, or fifth quarter, or below 2.00 at the end of the sixth or any subsequent quarter, shall be placed on probation unless dismissed pursuant with the provisions of the rule. Such probation shall continue until the required cumulative point-hour ratio has been achieved or the student has been dismissed pursuant to the rules regarding dismissal. Other conditions of probation may be established by the Administrative Council. The student and his parents or guardian shall be notified of probationary status by
the college in which he is registered. Such notifications shall include a clear statement of what shall be required of the student academically if he is to avoid dismissal.

DISMISSAL

A. Failure to meet the minimum scholastic requirements shall result in dismissal from the University as of the end of the quarter in which such failure occurs.

B. If at any time the preparation, progress, or success of a student in his assigned work is determined to be unsatisfactory, the executive committee of the college in which he is registered shall be empowered to dismiss him from the University.

C. Notice of dismissal from the University shall be sent by the dean of the college in which the dismissed student is registered, to the student and to the student's parents or guardian.

D. A dismissal for failure to meet the minimum scholastic requirements may be waived for educationally sound reasons through special action of the executive committee of the college in which the student is registered.

E. Any student who may be reinstated by the executive committee of his college following dismissal shall be subject to such special requirements as may be determined appropriate by the executive committee. If the performance records of any reinstated student do not meet the conditions specified at the time of reinstatement, then the executive committee shall consider all the facts in the student's case and determine whether dismissal by special action or a waiver for another quarter is indicated.

REINSTATEMENT

A student who is dismissed from the College of Optometry may apply for a petition to be reinstated after a period of three quarters. Such a petition can be considered only in the event that the class to which he wishes to be reinstated has a vacancy.

Activities

STUDENT OPTOMETRIC ASSOCIATION

The Student Optometric Association, which all students in the College of Optometry are eligible to join, sponsors various programs to supplement the curricular and professional life of the College. It also sponsors one or more social events each quarter, including an Eye Ball and a picnic. It organizes athletic teams to participate in intramural sports. The Student Optometric Association, with the financial support of the Optometry Alumni Association, organizes many of the welcoming and orientation activities for new students in the College.

OPTOMETRIC DAMES

Wives and fiancées of optometry students, as well as women optometry students, are eligible to join the Optometric Dames. Dedicated to learning as much as possible about the profession of optometry, members hear noted speakers at each of their monthly meetings and participate in several vision-related activities. In addition, the Optometric Dames prepare and serve refreshments at the annual open house for prospective students and serve luncheon after the annual welcome program for new students.

AMERICAN OPTOMETRIC ASSOCIATION

Optometry students are given free student membership in the American Optometric Association. They receive the Journal of the American Optometric Association and the AOA News and are eligible to participate at low cost in the AOA health insurance program. They may attend AOA meetings without paying registration fees but may not vote.

PROFESSIONAL FRATERNITIES

The two active optometric fraternities are Epsilon Psi Epsilon and Sigma Epsilon Epsilon. Each has a program of social and professional activities during the school year. The Epsilon Psi Epsilon fraternity has its own house, which can accommodate about 30 student residents.
ALUMNI ASSOCIATION

The Optometry Alumni Association has an active program of leadership and financial assistance for various programs. The Association holds an annual educational meeting, which includes the recognition of an outstanding alumnus as well as others who contribute significantly to the progress of optometric education.

STUDENT COUNCIL

An Optometric Student Council coordinates many student activities, represents the student body at various University functions, and serves as a liaison between students and faculty.

GENERAL INFORMATION

THE OHIO UNION

The Ohio Union is the community center for students, faculty, staff, alumni, and guests. A cafeteria, lunchroom, and dining room are found in the Union. Recreational facilities for bowling, billiards, table tennis, bridge, small crafts, and photography are also available in the building.

The Music Lounge and Browsing Room provide an opportunity for relaxation with an excellent selection of classical music and literature.

STUDENT SERVICES

The Student Services Building, 154 West 12th Avenue, houses the Student Health Service, Counseling Center, Student Financial Aids Office, and Student Employment Center. The use of the Student Health Service is available to the student, spouse, and family through the payment of an insurance fee at registration.

Also available are the facilities of the University Hospitals, the Optometric Clinic, and the Dental Clinic, which are open to the student, spouse, and family.

ATHLETIC FACILITIES

The University Athletic Department provides competition in every major intercollegiate sport, including football, basketball, track, hockey, baseball, and lacrosse. The University tennis courts, weight rooms, natatorium, two complete 18-hole golf courses, ice rink, handball courts, squash courses, and playing fields are open to student use.
Courses of Instruction

The following pages present the descriptions of courses of instruction offered by the University at the undergraduate, graduate, and professional levels. The departments, schools, and colleges which offer the courses are arranged in alphabetical order.

The courses in each are preceded by the names of faculty members with the rank of professor, associate professor, assistant professor, and instructor in that department, school, or college. These lists are accurate as of October 1, 1968.

The sample provided below itemizes some of the varieties possible.

A. H531 Structural/Design V

Prereq.: 673, Engr. Mech. 605, or 3rd yr. standing.

Not open for credit to students majoring in Civil E.

Repeatable to a maximum of 15 cr. hrs.

Basic theory and design of reinforced concrete structures. Tilton.

B. 631.01 Design of Continuous Beams

631.02 Simple Steel Structures

EXPLANATION OF COURSE LISTINGS

A. The material in bold type includes:

The course number: 631 (An “H” prefix indicates the course is open only to students enrolled in college honors programs, and others as designated by departments.)

Note—This catalog reflects the University’s new Classification and Course Numbering System, which appears in detail in the following section.

A dagger (†) denotes that the course will not be offered this year.

An asterisk (*) indicates that the course is offered every other year.

The course title: Structural Design V

The instructional level: U G

U = Undergraduate
UG = Advanced Undergraduate and Graduate
G = Graduate
P = Professional (for professional students enrolled in that particular college)

Credit hours: 5

B. The material in italics includes:

A number of course under previous number system. Students with credit for this course under this number are not permitted to enroll in it again under the new number system (unless the course is stated as being repeatable).

2 Quarters of Offering:

Su. = Summer W. = Winter
A. = Autumn Sp. = Spring

Summer Quarter is further divided into 1st Term and 2nd Term. See the University Calendar at the back of any catalog for dates. Lack of staff or low student enrollment may preclude offering a course, particularly at the advanced level, every quarter for which it is authorized.

Classroom and laboratory hours: 3-5, 2-3 hr. labs. In the sample provided, the 5 hours of credit are earned through satisfactory completion of coursework which involves attending class three days a week and attending two 2-hour laboratory periods each week.

C. Prerequisites: 673, Engr. Mech. 605, or 3rd yr. standing. The course number(s) or other information indicates the preparation or classification required to enroll in the course. If no department name is listed, the course number refers to the specific course within the same department. If a class standing such as “3rd-year standing” is listed, only students with that or higher class level are eligible for enrollment. The school, department, or college office should be consulted in cases of question as to eligibility for taking the course.

The number of the course implies the prerequisites listed in the University Classification and Course Numbering System shown in the following section.

Additional information affecting a student’s enrollment in a course: Not for credit to students majoring in Civil Engineering.

The decimal subdivisions:

The numbers 631.01 and 631.02 indicate subdivisions of the generic number, 631. Whenever decimals appear, a student should register for the entire number (including the desired decimal subdivision) rather than the generic number alone.
**UNIVERSITY CLASSIFICATION AND COURSE NUMBERING SYSTEM**

Established 1967-68, the system of numbering courses offered by the University is as follows:

<table>
<thead>
<tr>
<th>NUMBERS</th>
<th>COURSES</th>
<th>PREREQUISITES</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-099</td>
<td>Non-Credit Courses (except certain seminars and colloquia)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Orientation courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remedial courses</td>
<td></td>
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<tr>
<td></td>
<td>Experience courses with student not under direct supervision of faculty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Courses with credit added to graduation requirements</td>
<td></td>
</tr>
<tr>
<td>100-299</td>
<td>Courses Providing Undergraduate Credit Only</td>
<td>None, or specified course(s) numbered 100-199</td>
</tr>
<tr>
<td>100-199</td>
<td>Basic courses providing undergraduate credit, but not to be counted on a major or field of specialization in <em>any</em> department</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beginning courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Required or elective courses which may be prerequisite to other courses</td>
<td></td>
</tr>
<tr>
<td>200-299</td>
<td>Basic courses providing undergraduate credit which may be counted on a major or field of specialization (in your and/or other departments)</td>
<td>45 qtr. hrs. in collegiate courses, exclusive of ROTC and physical education; or Specified course(s) numbered 100-199; or Satisfactory placement on entrance examinations when applicable.</td>
</tr>
<tr>
<td>300-499</td>
<td>Courses Providing Undergraduate Credit or Professional Credit</td>
<td></td>
</tr>
<tr>
<td>300-399</td>
<td>Intermediate courses providing undergraduate credit which be counted on a major or field of specialization</td>
<td>90 qtr. hrs. in collegiate courses, exclusive of ROTC and physical education; or Specified course(s) numbered 100-399</td>
</tr>
<tr>
<td>400-499</td>
<td>Basic courses in the Professional Divisions of the Colleges of Education and Engineering</td>
<td>Basic courses in the Colleges of Dentistry, Pharmacy, and Veterinary Medicine</td>
</tr>
<tr>
<td>NUMBERS</td>
<td>COURSES</td>
<td>PREREQUISITES</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>500-799</td>
<td>Courses Which Provide Undergraduate Credit and Which May Provide Graduate Credit for Graduate Students Registered in Sections of Courses Taught by Members of the Graduate Faculty; Courses Providing Professional Credit and Which May Provide Graduate Credit for Students Registered in Sections of Courses Taught by Members of the Graduate Faculty</td>
<td>15 qtr. hrs. in courses in the same discipline numbered 200 or higher, or 10 qtr. hrs. in courses numbered 200 or higher in the same discipline, plus 10 qtr. hrs. in courses numbered 200 or higher in specified allied disciplines.</td>
</tr>
<tr>
<td>500-599</td>
<td>Intermediate courses that provide undergraduate credit which may be counted on a major or field of specialization, and graduate credit only in other departments</td>
<td>Intermediate courses in the Professional Divisions of the Colleges of Education and Engineering; Intermediate courses in the Colleges of Dentistry, Pharmacy, and Veterinary Medicine</td>
</tr>
<tr>
<td></td>
<td>Basic courses in the Colleges of Law and Medicine</td>
<td>Baccalaureate degree</td>
</tr>
<tr>
<td>600-699</td>
<td>Advanced courses providing undergraduate credit which may be counted on a major or field of specialization, and providing graduate credit (in your and/or other departments)</td>
<td>15 qtr. hrs. in courses in the same discipline numbered 300 or higher, or 10 qtr. hrs. in courses numbered 300 or higher in the same discipline, plus 10 qtr. hrs. in courses numbered 300 or higher in specified allied disciplines.</td>
</tr>
<tr>
<td></td>
<td>Advanced courses in professional divisions and professional colleges</td>
<td></td>
</tr>
<tr>
<td>700-799</td>
<td></td>
<td>15 qtr. hrs. in courses in the same discipline numbered 400 or higher, plus additional specified course(s) numbered 600 or higher</td>
</tr>
<tr>
<td>800-999</td>
<td>Course Providing Graduate Credit Only</td>
<td>30 qtr. hrs. in courses in the same discipline, or 20 qtr. hrs. in the same discipline, plus 25 qtr. hrs. in specified allied disciplines</td>
</tr>
</tbody>
</table>
Optometry

Office: 111 Optometry Building, 338 West Tenth Avenue
Professors Hebbard (Dean), Fry, and Hill; Associate Professors Eskridge and Wild; Assistant Professors Bailey, Fugate, Haines (Emeritus), Kerr, Mote, and Warshaw; Instructors Albright, Carifa, Harris, Jozwiak, Schoessler, and Zinnecker.

401 Survey of Optometry P 1
A. 1 cl.
Prereq.: Optom. 1st yr. standing.
Development of optometry and optometric education; scope of optometric services; sources of vision information; kinds of current vision research.

411 Intermediate Geometric Optics P 3
Sp. 3 cl.
Prereq.: Optom. 1st yr. standing and Physics 425.
Thick-lens optics; image evaluation; application to optometric systems. Wild.

431 Ophthalmic Optics I P 5
(W81) W. 4 cl., 1 3-hr. lab.
Prereq.: Optom. 2nd yr. standing and 411.
Ophthalmic optics of single-vision and multifocal spectacle lenses; measurement and inspection of spectacle lenses; manufacturing processes. Wild.

432 Ophthalmic Optics II P 5
(W82) Sp. 4 cl., 1 3-hr. lab.
Prereq.: 431.
Ophthalmic lens design; minimizing lens aberrations; theory and practice in fitting and adjusting spectacles. Wild.

433 Ophthalmic Optics III P 4
(W83) A. 3 cl., 1 3-hr. lab.
Prereq.: 432.
The optics of corneal and scleral contact lenses; laboratory exercises in inspecting, measuring, edging, surfacing, and modifying contact lenses.

441 Practical Optometry I P 4
(S81) W. 3 cl., 1 3-hr. lab.
Prereq.: Optom. 2nd yr. standing, Physics 112, and Math. 150.
Theory and techniques of keratometry, skiametry, objective and subjective tests of refraction, accommodation, and functions of the extra-ocular muscles. Hebbard.

442 Practical Optometry II P 4
(W85) W. 3 cl., 1 3-hr. lab.
Prereq.: 441.
Correlation and analysis of data; systematic determination of the etiology of anomalies and sources of visual discomfort and inefficiency; corrective procedures and prescription writing. Hebbard.

443 Practical Optometry III P 4
(S86) Sp. 3 cl., 1 3-hr. lab.
Prereq.: 442.
Ophthalmoscopy and examination of the external parts and the media of the eye; case histories; techniques of investigating special types of anomalies; corrective procedures. Hebbard.

641 Clinical Practice in Optometry I P 5
(S81) Su, A, W, Sp. 2 cl., 3 3-hr. lab.
Prereq.: 443.
Clinical practice in examining eyes and carrying out corrective procedures; the conference periods are devoted to the discussion of problems encountered during the clinic periods. Kerr.

642 Clinical Practice in Optometry II P 5
(S82) Su, A, W, Sp. 2 cl., 3 3-hr. lab.
Prereq.: 641.
Continuation of 641.

643 Clinical Practice in Optometry III P 5
(S83) Su, A, W, Sp. 2 cl., 3 3-hr. lab.
Prereq.: 642.
Continuation of 642.

651 Subnormal Vision P 4
Sp. 3 cl., 1 2-hr. lab.
Prereq.: Optom. 3rd yr. standing and 443.
Etiology of subnormal vision; measurement of loss of central acuity and other visual functions; design of optical devices for the aid of the partially sighted. Eskridge.

652 Aniseikonia P 4
W. 3 cl., 1 2-hr. lab.
Prereq.: Optom. 3rd yr. standing and 443.
Clinical methods of testing and measuring aniseikonia; etiology of aniseikonia; effects associated with uncorrected aniseikonia; design of lenses for aniseikonia. Fugate and Albright.

653 Contact Lenses I P 4
W. 3 cl., 1 2-hr. lab.
Prereq.: Optom. 653.
The uses of contact lenses; theory and methods of fitting; specification and verification; post-fitting care; contact lens solutions. Bailey.

654 Contact Lenses II P 4
Sp. 3 cl., 1 2-hr. lab.
Prereq.: Optom. 653.
Theory and clinical methods involving meridional and bifocal contact lenses; fitting astigmatic corneas and aphakic eyes; haptic and keratoconic lenses; cosmetic shells and prosthetic eyes.

660 Ophthalmic Pathology P 5
A. 3 cl., 6 lab. hrs.
Prereq.: Optom. 2nd yr. standing, Path. 650.
Gross and microscopic pathology of the eye, including diseases of the conjunctiva, orbital cavity and pertinent pathology of the central nervous system. Hill.

701 Applied Pathology of the Eye I P 4
(S85) Sp. 3 cl., 1 3-hr. lab.
Prereq.: 443 and Anat. 608.
Advanced ophthalmoscopy, slit lamp microscopy, tonometry, and other methods of detecting pathological conditions; systematic study of ocular diseases; artificial eyes and other prosthetic devices.
702 Applied Pathology of the Eye II  P 4
(556)  A. 3 cl., 1 2-hr. lab.
Prereq.: 701.
Motor disturbances of eyes, paralytic strabismus, peripheral fixation anomalies, nystagmus, ptosis, ptosis crutches, anomalous accommodative and pupillary responses. Esbrook.

703 Applied Pathology of the Eye III  P 4
(557)  A. 3 cl., 1 2-hr. lab.
Prereq.: 702.
Visual fields; scotometry; subnormal central vision involving pathology; telescopic lenses and aids for subnormal vision; theory and practice in the use of contact lenses. Schoessler.

721 Optometric Economics and Jurisprudence  P 3
(661)  W. 3 cl.
Prereq.: 614.
Historical background; legal status; practice building techniques; office accounting and general practice management; representative organization in optometry; professional ethics. Fugate.

511 Introduction to Physiological Optics I  U G 5
(611)  Sp. 4 cl., 1 2-hr. lab.
Prereq.: Physics 435 and Anat. 608.
Not for graduate credit to students majoring in Physiol. Opt.
The eye as an optical instrument; the refracting mechanism; the mechanism of accommodation and pupillary contraction; blur of the retinal image; stray light in the eye. Kerr.

520 Measurement and Specification of Visual Stimuli  U G 4
(680)  A. 3 cl., 1 2-hr. lab.
Prereq.: Optom. 2nd yr. standing and 511.
Not for graduate credit to students majoring in Physiol. Opt.
Light sources; diffusely transmitting and reflecting surfaces and scattering of light by a medium; principles of photometry and colorimetry as applied to visual stimuli. Hebbard and Ingling.

608 Anatomy of the Eye  U G 5
Sp. 2 cl., 2 3-hr. lab.
Prereq.: 1st yr. Optom. or Zool. 580 and permission of instructor.
Human gross anatomy of the head and neck with special emphasis on the eye and orbit; histology and embryology of the eye and associated structures. Hill.

512 Introduction to Physiological Optics II  U G 5
(612)  A. 4 cl., 1 2-hr. lab.
Prereq.: 511.
Not for graduate credit to students majoring in Physiol. Opt.
The motility of the eye; the structure and inervation of the extraocular muscles; the center of rotation and analysis and description of eye movements. Kerr.

613 Intermediate Physiological Optics I  U G 5
W. 4 cl., 1 2-hr. lab.
Prereq.: 512.
Monocular sensory mechanisms of vision; analysis and specification of visual stimuli; photoreception and retinocortical transmission; adaptation of photoreceptors; flicker; brightness discrimination; and color-vision. Kerr and Ingling.

614 Intermediate Physiological Optics II  U G 3
W. 8 cl.
Prereq.: 512.
Circulation and metabolism of the eye; intraocular pressure; lacrimal system; movements and functions of the eyelids. Hill.

Physiological Optics
Office: 111 Optometry Building, 338 West 10th Avenue
Professors Hebbard (Chairman), Blackwell, Fry, and Hill; Associate Professors Eskridge, Smith, and Wild; Assistant Professors Bailey, Fugate, Haines (Emeritus), Ingling, Kerr, Mote, Reese, and Warshaw; Instructors Harris, Jozwiak, and Schoessler.
693 Individual Studies in Physiological Optics U G 1-15
Prereq.: Permission of department chairman.
Repeatable to a maximum of 15 cr. hrs.
A properly qualified student may perform a minor investigation or add to his knowledge and technique.

715 Intermediate Physiological Optics III U G 5
Sp. 4 cl., 1 2-hr. lab.
Prereq.: Optom. 2nd yr. standing and 613.
Projection of visual impressions; the horopter, retinal correspondence; binocular integration of hue and brilliance. Eskridge.

716 Intermediate Physiological Optics IV U G 5
W. 3 cl., 1 2-hr. lab.
Prereq.: 715.
Visual perception of color, illumination, figure-ground relations, size, shape, direction, distance, motion, time, and complex patterns. Eskridge.

730 Principles of Lighting U G 5
W. 4 cl., 1 2-hr. lab.
Prereq.: 716.
The effect of the distribution of light in a given environment upon efficiency, comfort, and safety; selection and arrangement of sources and light control. Fry and Blackwell.

731 Vision in Industry U G 5
Sp. 5 cl.
Prereq.: 720.
Visual testing in industry; relation of vision to performing a task; visual requirements for licenses; eye hazards and protection; compensation for loss of vision. Bailey, Kerr, Warshaw, and Smith.

732 Vision in Schools U G 5
A. 3 cl., 6 hr. lab.
Prereq.: 720.
Visual survey methods; the prevalence of visual anomalies and eye diseases in children; basic visual skills required in school and methods for their improvement. Bailey, Kerr, and Warshaw.

795 Seminar U G 1-3
Prereq.: Permission of instructor.
Repeatable to a maximum of 18 cr. hrs.
A series of seminars dealing with new developments in the various phases of physiological optics.

801 Advanced Physiological Optics I U G 5
A. 3 cl., 2 2-hr. lab.
Prereq.: 716.
The ocular image-forming mechanism; accommodation and pupil contraction, aberrations, stray light entoptic phenomena; shape, size, distortion; retinal illuminance and blur. Fry.

802 Advanced Physiological Optics II G 5
W. 3 cl., 2 2-hr. lab.
Prereq.: 801.
Fixation disparity; photochemistry and electrophysiology of photo-receptors; luminosity; color-mixture; retinal-cortical transmission; simultaneous contrast; visibility; adaptation; after images. Fry.

803 Advanced Physiological Optics III G 5
Sp. 3 cl., 2 2-hr. lab.
Prereq.: 802.
Binocular integration of hue and brilliance, fusional movements; fixation, retinal correspondence, visual perception of figure-ground relations, light, color, illuminance, size, shape, direction, distance, and motion. Fry.

810 Image Evaluation G 5
A. 5 cl.
Prereq.: 613, Physics 435 and 436.
An analysis of the causes of image impairment in the human eye and other optical systems: objective methods of assessing aberrations and blur; methods of image enhancement. Fry.

811 Mechanisms Subserving Color Vision G 5
W. 5 cl.
Prereq.: 613.
Theoretical basis for chromatic adaptation, chromatic contrast and induction, color blindness, and other color phenomena; theory of the laws of color mixture. Fry.

812 Advanced Neurophysiology of the Visual System G 5
A. 4 cl., 1 2-hr. lab.
Prereq.: 613, 614, 715, and 716.
The coding and transmission of visual information in the direct and accessory pathways of vertebrates and invertebrates. Hill.

813 Advanced Physiology of the Eye G 5
A. 4 cl., 1 2-hr. lab.
Prereq.: 613 and 614.
Recent developments in the respiration, metabolism and mechanics of ocular tissues and the aqueous dynamics of the eye. Hill.

815 Binocular Vision and Perception G 5
W. 3 cl., 1 2-hr. lab.
Prereq.: 658.
Visual perception: direction, space, motion; perceptual adaptation; binocular vision and fusion. Eskridge and Fry.

999 Research in Physiological Optics G Arr.
Research for thesis or dissertation purposes only.
Library Calendar 1969-70

The schedule of hours is subject to change. Consult specific library concerned for further information and summer hours.

MAIN LIBRARY REGULAR SCHEDULE OF HOURS

Autumn, Winter, and Spring Quarters
Monday through Friday 7:45 a.m.—12 midnight
Saturday 8 a.m.—10 p.m.
Sunday 1 p.m.—12 midnight

Summer Schedule
Monday through Friday 7:45 a.m.—12 midnight
Saturday 8 a.m.—5 p.m.
Sunday 1 p.m.—6 p.m.

Between-Quarter and Holiday Schedule
Monday through Friday 8 a.m.—7 p.m.
Saturday 8 a.m.—5 p.m.
Sunday 1 p.m.—6 p.m.

Departmental libraries' regular schedules are listed below. Between-quarter and holiday hours vary. Schedules are posted in these libraries and also in the Main Library.

SUMMER QUARTER 1969
June 17 Begin Summer Quarter hours.
July 4 Independence Day—All libraries closed.
August 30 Begin Between-Quarter Schedule at 5 p.m.

AUTUMN QUARTER 1969
August 31—September 1 Labor Day Weekend—All libraries closed.
October 1 Begin Autumn Quarter hours.

DEPARTMENT AND OTHER LIBRARIES—Autumn, Winter, and Spring Quarters

<table>
<thead>
<tr>
<th>Department/Location</th>
<th>Mon.-Thurs.</th>
<th>Fri.</th>
<th>Sat.</th>
<th>Sun.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aero-Civil Engr., 322 Civil Aero. Engr. Bldg.</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Agriculture, 45 Agricultural Admin. Bldg.</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Agronomy Dept., 111 Townshend Hall</td>
<td>8-12; 1-5</td>
<td>8-12; 1-5</td>
<td>8-5</td>
<td>2-10</td>
</tr>
<tr>
<td>Botany &amp; Zoology, 200 Botany &amp; Zoology Bldg.</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Brown, 103 Brown Hall</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Buckeye Village</td>
<td>7-12 mid.</td>
<td>7-12 mid.</td>
<td>8-5</td>
<td>2-5</td>
</tr>
<tr>
<td>Chemistry, 319 McPherson Chem. Lab.</td>
<td>8-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>2-5, 5:30-9:30</td>
</tr>
<tr>
<td>Children's Hospital, 561 S. 17th St.</td>
<td>8:30-9:30</td>
<td>8:30-9:30</td>
<td>8-5</td>
<td>2-10</td>
</tr>
<tr>
<td>Commerce, 204 Page Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Davis Welding, 200 Welding Engr. Labs.</td>
<td>8-5</td>
<td>8-5</td>
<td>8-5</td>
<td>2-6</td>
</tr>
<tr>
<td>Education, 060 Arps Hall</td>
<td>7:30-10</td>
<td>7:30-10</td>
<td>8-5</td>
<td>2-6</td>
</tr>
<tr>
<td>Electrical Engineering, 162 Caldwell Lab</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>English Dept., 15-15C Derby Hall</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Fine Arts, 204 Main Library</td>
<td>8-10</td>
<td>8-10</td>
<td>8-5</td>
<td>2-10</td>
</tr>
<tr>
<td>Health Center, 101 Arps Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Home Economics, 325 Campbell Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Journalism, 109 Journalism Bldg.</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Law, 219 Law Bldg.</td>
<td>7:45-12</td>
<td>7:45-12</td>
<td>8-10</td>
<td>1-12</td>
</tr>
<tr>
<td>Materials Engr., 197 Watts Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Mathematics, 010 Mathematics Bldg.</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Mechanical Engineering, 2071 Robinson Lab.</td>
<td>8-5</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Microbiology, 7 Cockins Hall</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Music, 101 Hughes Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Orton, 100 Orton Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Perkins Observatory (Delaware)</td>
<td>8:30-2</td>
<td>Closed</td>
<td>Closed</td>
<td>Closed</td>
</tr>
<tr>
<td>Pharmacy, 207 Pharmacy Bldg.</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Physics, 1011 A. W. Smith Lab.</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Pomerene-Women's Physical Education, 307 Pomerene Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Social Work, 400 Stillman Hall</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12</td>
<td>Closed</td>
</tr>
<tr>
<td>Topaz, 114 Optometry Bldg.</td>
<td>8-5</td>
<td>8-5</td>
<td>8-1</td>
<td>2-6</td>
</tr>
<tr>
<td>Veterinary Medicine, 229 Sisson Hall</td>
<td>8-10</td>
<td>8-5</td>
<td>8-1</td>
<td>2-6</td>
</tr>
</tbody>
</table>
## University Calendar for 1969-70

Commencement dates are subject to change.

### Summer Quarter 1969

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1</td>
<td>Last day for filing complete undergraduate applications for admission (Thurs.)</td>
</tr>
<tr>
<td>June 2</td>
<td>Last day for filing complete Graduate School applications for admission (Mon.)</td>
</tr>
<tr>
<td>June 13</td>
<td>Last day for filing schedule cards (Fri.)*</td>
</tr>
<tr>
<td>June 13</td>
<td>Last day for payment of First Term and Quarter fees (Fri.)</td>
</tr>
<tr>
<td>June 15</td>
<td>Welcome Program for all new students (Mon.)</td>
</tr>
<tr>
<td>June 17</td>
<td>Classes begin, 8:00 a.m. (Tues.)</td>
</tr>
<tr>
<td>June 30</td>
<td>Last day for withdrawal from the University for the First Term with any refund of fees (Mon.)</td>
</tr>
<tr>
<td>July 4</td>
<td>Legal Holiday—Independence Day—No classes—Offices closed (Fri.)</td>
</tr>
<tr>
<td>July 14</td>
<td>Last day for withdrawal from the University for the Quarter with any refund of fees (Quarter students) (Mon.)</td>
</tr>
<tr>
<td>July 18</td>
<td>Last day for payment of Second Term fees (Fri.)</td>
</tr>
<tr>
<td>July 21-22</td>
<td>Final Examinations—First Term (at regular class hours) (Mon. and Tues.)</td>
</tr>
<tr>
<td>July 22</td>
<td>First Term ends, 12:00 Midnight (Tues.)</td>
</tr>
<tr>
<td>July 23</td>
<td>Second Term begins, 8:00 a.m. (Wed.)</td>
</tr>
<tr>
<td>July 31</td>
<td>First day Autumn Quarter schedule cards are available (Wed.)</td>
</tr>
<tr>
<td>August 5</td>
<td>Last day for withdrawal from the University for the Second Term with any refund of fees (Tues.)</td>
</tr>
<tr>
<td>August 25-26</td>
<td>Final Examinations—Second Term (at regular class hours) (Mon. and Tues.)</td>
</tr>
<tr>
<td>August 26</td>
<td>Last day of regularly scheduled classes (Tues.)</td>
</tr>
<tr>
<td>August 27-29</td>
<td>Final Examinations for the Quarter (Wed. through Fri.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Summer Convocation (Commencement), 9:00 a.m., St. John Arena (Sat.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Summer Quarter ends, 12:00 Midnight (Sat.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Last day for students enrolled Summer or Spring Quarter to file Autumn Quarter schedule cards (Sat. Noon)</td>
</tr>
</tbody>
</table>

* Except newly admitted Graduate School students. The final date for these students will be extended to June 13, the last day for payment of fees.

### Autumn Quarter 1969

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 1</td>
<td>Last day for filing complete undergraduate applications for admission (Fri.)</td>
</tr>
<tr>
<td>September 1</td>
<td>Legal Holiday—Labor Day—No classes—Offices closed (Mon.)</td>
</tr>
<tr>
<td>September 2</td>
<td>Last day for filing complete Graduate School applications for admission (Tues.)</td>
</tr>
<tr>
<td>September 22</td>
<td>Last day for filing schedule cards (Mon.)*</td>
</tr>
<tr>
<td>September 26</td>
<td>Last day for payment of fees (Fri.)</td>
</tr>
<tr>
<td>September 29-30</td>
<td>Welcome Program for all new students (Mon. and Tues.)</td>
</tr>
<tr>
<td>October 1</td>
<td>Classes begin, 8:00 a.m. (Wed.)</td>
</tr>
<tr>
<td>October 28</td>
<td>Last day for withdrawal from the University with any refund of fees (Tues.)</td>
</tr>
<tr>
<td>November 3-4</td>
<td>Students enrolled Autumn Quarter may obtain Winter Quarter schedule cards in college offices (A-K on Mon. and L-Z on Tues.)</td>
</tr>
<tr>
<td>November 5</td>
<td>First day Winter Quarter schedule cards may be filed in college offices (Wed.)</td>
</tr>
<tr>
<td>November 11</td>
<td>Legal Holiday—Veterans' Day—Classes as usual—Offices open (Tues.)</td>
</tr>
<tr>
<td>November 15</td>
<td>Last day for students enrolled Autumn Quarter to file Winter Quarter schedule cards (Sat. Noon)</td>
</tr>
<tr>
<td>November 27</td>
<td>Legal Holiday—Thanksgiving—No classes—Offices closed (Thurs.)</td>
</tr>
<tr>
<td>November 28-29</td>
<td>Student vacation—No classes—Offices open (Fri. and Sat.)</td>
</tr>
<tr>
<td>December 12</td>
<td>Last day of regularly scheduled classes (Fri.)</td>
</tr>
<tr>
<td>December 15-19</td>
<td>Final Examinations (Mon. through Fri.)</td>
</tr>
<tr>
<td>December 20</td>
<td>Autumn Convocation (Commencement), 9:30 a.m., St. John Arena (Sat.)</td>
</tr>
<tr>
<td>December 20</td>
<td>Autumn Quarter ends, 12:00 Midnight (Sat.)</td>
</tr>
<tr>
<td>December 25</td>
<td>Legal Holiday—Christmas—Offices closed (Thurs.)</td>
</tr>
</tbody>
</table>

* Except newly admitted Graduate School students. The final date for these students will be extended to September 26, the last day for payment of fees.

### Winter Quarter 1970

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 14</td>
<td>Last day for filing complete undergraduate applications for admission (Fri.)</td>
</tr>
<tr>
<td>December 1</td>
<td>Last day for filing complete Graduate School applications for admission (Mon.)</td>
</tr>
<tr>
<td>December 22</td>
<td>Last day for filing schedule cards (Mon.)*</td>
</tr>
<tr>
<td>January 1</td>
<td>Legal Holiday—New Year's Day—Offices closed (Thurs.)</td>
</tr>
<tr>
<td>January 2</td>
<td>Last day for payment of fees (Fri.)</td>
</tr>
<tr>
<td>January 6</td>
<td>Welcome Program for all new students (Mon.)</td>
</tr>
<tr>
<td>January 6</td>
<td>Classes begin, 8:00 a.m. (Tues.)</td>
</tr>
<tr>
<td>February 2</td>
<td>Last day for withdrawal from the University with any refund of fees (Mon.)</td>
</tr>
<tr>
<td>February 2-3</td>
<td>Students enrolled Winter Quarter may obtain Spring Quarter schedule cards in college offices (A-K on Mon. and L-Z on Tues.)</td>
</tr>
</tbody>
</table>
**UNIVERSITY CALENDAR**

**February 4**  
First day Spring Quarter schedule cards may be filed in college offices (Wed.)

**February 12**  
Legal Holiday—Lincoln's Birthday—Classes as usual—Offices open (Thurs.)

**February 14**  
Last day for students enrolled Winter Quarter to file Spring Quarter schedule cards (Sat. Noon)

**February 23**  
Legal Holiday—Washington's Birthday celebrated—Classes as usual—Offices open (Mon.)

**March 13**  
Last day of regularly scheduled classes (Fri.)

**March 18-20**  
Final Examinations (Mon. through Fri.)

**March 19**  
Winter Convocation (Commencement), 9:30 a.m., St. John Arena (Thurs.)

**March 20**  
Winter Quarter ends, 12:00 Midnight (Fri.)

* Except newly admitted Graduate School students. The final date for these students will be extended to January 2, the last day for payment of fees.

### Spring Quarter 1970

**February 16**  
Last day for filing complete undergraduate applications for admission (Mon.)

**March 2**  
Last day for filing complete Graduate School applications for admission (Mon.)

**March 20**  
Last day for filing schedule cards (Fri.)*

**March 27**  
Last day for payment of fees (Fri.)*

**March 30**  
Welcome Program for all new students (Mon.)

**March 31**  
Classes begin, 8:00 a.m. (Tues.)

**April 1**  
Last day for students enrolled Spring Quarter to file Summer Quarter schedule cards in college offices (Fri.)

**May 4**  
First day Spring Quarter schedule cards may be filed in college offices (Mon.)

**May 7**  
Free Day—No undergraduate classes after 10:00 a.m. (including evening classes)—Offices open (Thurs.)

**May 16**  
Last day for students enrolled Spring Quarter to file Summer Quarter schedule cards (Sat. Noon)

**May 20**  
Legal Holiday—Memorial Day—No classes—Offices closed (Sat.)

**June 5**  
Last day for withdrawal from the University with any refund of fees (Mon.)

**June 9-12**  
Final Examinations (Mon. through Fri.)

**June 13**  
Welcome Program for all new students (Mon.)

**June 13**  
Classes begin, 8:00 a.m. (Tues.)

**June 19**  
Last day for payment of fees (Mon.)

**June 22**  
Welcome Program for all new students (Mon.)

**June 23**  
Classes begin, 8:00 a.m. (Tues.)

**July 4**  
Legal Holiday—Independence Day—No classes—Offices closed (Sat.)

**July 6**  
Last day for withdrawal from the University for the First Term with any refund of fees (Mon.)

**July 20**  
Last day for withdrawal from the University for the Quarter with any refund of fees (Summer Quarter students) (Mon.)

**July 24**  
Last day for payment of Second Term fees (Fri.)

**July 27-28**  
Final Examinations—First Term (at regular class hours) (Mon. and Tues.)

**July 28**  
First Term ends, 12:00 Midnight (Tues.)

**July 29**  
Second Term begins, 8:00 a.m. (Wed.)

**August 1**  
First day Autumn Quarter schedule cards are available (Fri.)

**August 2**  
First day for filing Autumn Quarter schedule cards in college offices (Mon.)

**August 11**  
Last day for withdrawal from the University for the Second Term with any refund of fees (Tues.)

**August 31**  
Last day for students enrolled Summer or Spring Quarter to file Autumn Quarter schedule cards (Mon.)

* Except newly admitted Graduate School students. The final date for these students will be extended to March 27, the last day for payment of fees.

### Summer Quarter 1970

**May 1**  
Last day for filing complete undergraduate applications for admission (Fri.)

**June 1**  
Last day for filing complete Graduate School applications for admission (Mon.)

**June 19**  
Last day for filing schedule cards (Fri.)*

**June 19**  
Last day for payment of First Term and Quarter fees (Fri.)

**June 22**  
Welcome Program for all new students (Mon.)

**June 23**  
Classes begin, 8:00 a.m. (Tues.)

**July 4**  
Legal Holiday—Independence Day—No classes—Offices closed (Sat.)

**July 6**  
Last day for withdrawal from the University for the First Term with any refund of fees (Mon.)

**July 20**  
Last day for withdrawal from the University for the Quarter with any refund of fees (Quarter students) (Mon.)

**July 24**  
Last day for payment of Second Term fees (Fri.)

**July 27-28**  
Final Examinations—First Term (at regular class hours) (Mon. and Tues.)

**July 28**  
First Term ends, 12:00 Midnight (Tues.)

**July 29**  
Second Term begins, 8:00 a.m. (Wed.)

**August 3**  
First day Autumn Quarter schedule cards are available (Fri.)

**August 11**  
Last day for withdrawal from the University for the Second Term with any refund of fees (Tues.)

**August 31**  
Last day for students enrolled Summer or Spring Quarter to file Autumn Quarter schedule cards (Mon.)

**September 1**  
Final Examinations—Second Term (at regular class hours) (Mon. and Tues.)

**September 1**  
Last day of regularly scheduled classes (Tues.)

**September 7**  
Final Examinations for the Quarter (Wed. through Fri.)

**September 5**  
Summer Convocation (Commencement), 9:00 a.m., St. John Arena (Sat.)

**September 5**  
Summer Quarter ends, 12:00 Midnight (Sat.)

**September 7**  
Legal Holiday—Labor Day—No classes—Offices closed (Mon.)

* Except newly admitted Graduate School students. The final date for these students will be extended to June 19, the last day for payment of fees.
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