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Office: 118 Arps Hall—293-5801
Paul MacMinn ................................... Assistant Dean, Student Personnel
Office: 110 Arps Hall—293-5812
William B. McBride ............................. Assistant Dean, Field Relations
Office: 118 Arps Hall—293-5801
W. Wallace Stover ............................... Secretary
Office: 110 Arps Hall—293-5821
David L. Larimore .............................. Assistant to the Dean
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Frank J. Zidonis, Ph.D. (The Ohio State University), Professor of Education
Objectives and Organization

The College of Education was established in 1907 to provide professional education for teachers. In addition it is now involved in preparing other educational workers in administration, curriculum, counseling, guidance, research management, testing, evaluation and continuing education; the conduct of investigation in education and allied fields; and the providing of services to other colleges, social agencies, and people of the state, nation, and other countries appropriate to the special competencies of the College itself.

The College of Education, after comprehensive consideration of its university and state setting, its staff potential, and its outlook on education, has made explicit four major educational tasks:

1. To prepare personnel for professional teaching and leadership positions in a variety of educational institutions;
2. To contribute to the understanding of education as a body of knowledge;
3. To contribute to the development of institutional organizations, arrangements and service systems to facilitate teaching and learning; and,
4. To provide leadership in effecting planned change in public schools and other educational institutions.

The College assumes responsibility for guiding its students in the selection of experiences conducive to the attainment of their educational purposes. These experiences include not only the work done in the College itself, but also the courses pursued in other colleges of the University as well as various educational experiences within and beyond the confines of the campus.

The College holds the view that professional education involves more than the achievement by its students of academic knowledge and skill required to perform their occupational duties. It conceives professional education to include the related development of acceptable social and personal attitudes, ethical standards, ideals of service, and the acceptance of professional and social responsibility. Consequently its programs seek to fulfill the needs of individuals for such competencies. In harmony with this concept of professional competence, the College exercises its responsibility to the state by dismissing or not accepting students who demonstrate lack of capacity to develop these necessary qualifications of professional growth and service. The College of Education is accredited by the National Council for Accreditation of Teacher Education.

INSTRUCTIONAL UNITS OF THE COLLEGE

Instruction, research, and service programs are offered in the College of Education by a number of program areas. The College awards the degrees Bachelor of Science in Education, Master of Arts, Master of Education, and Doctor of Philosophy, as well as the Specialist in Educational Administration Certificate.

Descriptions of the varied research and service activities of the College, while not included in this book, can be obtained from the Office of the Dean.

LIBRARY FACILITIES

The University Libraries include the Main Library (William O. Thompson Memorial) and 23 department libraries. The latter are smaller libraries specializing in particular subjects or groups of related subjects, such as agriculture, botany and zoology, commerce, education, geology, music, and physics. The Main Library contains general books and periodicals, the collections pertaining to many of the disciplines of the social sciences and to most of the disciplines of the humanities, the rare book collection, and older works in all fields represented at the University.

Special reading rooms in the Main Library are organized for graduate study and research in English and speech; history, philosophy, and political science; foreign languages; and fine arts. Maps and atlases are also provided in the Main Library. In all, the University Libraries contain over 2,000,000 volumes. Titles in all of the University Libraries are recorded in the public card catalog in the Main Library; the catalogs in the department libraries include only titles in the separate libraries. The Reference Department, located on the first floor of the Main Library, provides professional library assistance and houses an excellent collection of basic and specialized...
reference works. Graduate students and faculty are encouraged to confer with the Consultant for Library Research and Lecturer in Subject Bibliography for advice on bibliographic sources for theses, dissertations, and research projects. The consultant is also available for lectures to advanced classes and seminars. Interlibrary loan service is provided by the Circulation Department.

Any person is privileged to use the University Libraries for reference, but books may be drawn for home use only by the faculty, staff, and registered students of the University. Graduate students and undergraduates in honors programs may use the stacks of the libraries upon presentation of their fee cards at the main circulation desk.

The University Libraries have been organized and maintained for the primary purpose of providing books and services necessary for the instruction and research carried on at the University. There are strong general collections in the many subject fields in which courses are offered. Collections include not only the most recent books and periodicals on the subject, but also the major works of the past. For the support of research, there are many complete files of newspapers, journals, reports, and society proceedings from various parts of the world. Large collections of early books, journals, and newspapers are available on microfilm. The Library is the depository for theses and dissertations produced at the University.

The Libraries provide a collection of books and journals especially selected for undergraduate reading. This collection along with study carrels is located on the second and third floor of the Main Library. A reference librarian is on duty in this area during the day to provide assistance to undergraduates.

The Main Library is a depository for the official publications of the United States government. In addition to these, it receives thousands of documents from states, cities, and foreign countries. The Main Library also possesses the British Parliamentary Papers, including the rare early volumes. The numerous series of the publications of the League of Nations and the United Nations are well represented. The publications of the Ohio Academy of Science, the Ohio State University Scientific Association, and the Ohio Biological Survey are deposited in the Main Library.

In addition to coin-operated copying machines located at various places in the libraries, a staffed copy service is provided on the second floor of the Main Library.

The Libraries provide an automated bibliographic information retrieval service in the Health Center Library. For the present the service is limited to the biomedical area, but it is expected to expand in the near future as more machine-readable data become available.

In addition to these collections and facilities for study and research, the Main Library provides general and recreational reading. The Browsing Room, an area set aside for such reading and staffed with a librarian to assist patrons in reading programs, contains approximately 6,000 volumes of the world's literary classics and currently published books in many subjects. The collection of the Browsing Room includes a seven-day loan collection of the best sellers and a circulating phonograph record collection. Further details about the libraries and their operation may be found in Library Handbook for Undergraduate Students and Library Handbook for Faculty and Graduate Students.

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The Education library, located in Arps Hall, contains a collection of approximately 90,000 volumes, including over 1,900 current American and foreign journals of education and psychology. Of special interest is the Ohio file, which is of historical interest for use in state, national, and foreign periodicals.
The library also has a pamphlet file of approximately 5,000 titles, the microfiche of the ERIC program, and catalogs of the major colleges and universities.

The library is open for 90 hours a week, and serves the students and faculty in the College of Education and the Department of Psychology.

Admissions and Registration

GENERAL UNIVERSITY ADMISSION POLICIES

FRESHMEN
A graduate of an accredited high school who is a resident of Ohio and who has never attended college will be accepted for admission as a freshman at the beginning of any quarter, provided the applicant applies for admission on or before established deadline dates.

Admission of out-of-state students as freshmen will be limited to those applicants who have demonstrated high academic promise.

Unless otherwise specified, it is strongly recommended that entering students have completed in high school: four units of English; two units of mathematics; two units of the same foreign language; two units of science not including general science; and as much social science as can be elected, including American history and government.

The College is particularly concerned that the entering student have these skills: the ability to read rapidly and with comprehension; command of the fundamentals of effective speech and writing; ability to use arithmetical concepts; and effective habits of study.

UNDERGRADUATE TRANSFER STUDENTS
A person who has attended another accredited college or university is welcome to apply for admission to any undergraduate college of The Ohio State University as an undergraduate transfer applicant. The acceptance of such an applicant is determined by careful consideration of his previous academic record in other accredited institutions and his proposed program. An applicant must submit a record of good standing with at least a “C” (2.00) average in all course work attempted. (Students who have completed 90 or more quarter hours of course work and who desire to enroll in a teacher preparation program must meet the requirements of the Division of Professional Education.)

Further details regarding admission requirements and procedures for undergraduate transfer students may be found in Book 1.

APPLICATION REQUESTS
Freshman and undergraduate transfer students requesting application forms should state briefly the amount of high school or college training completed, academic interest, and the quarter of intended enrollment.

Requests for further information regarding admission should be addressed to The Ohio State University, Admissions Office, 190 North Oval Drive, Columbus, Ohio 43210.

ADMISSION TO THE TEACHER EDUCATION PROGRAMS
Teacher education programs are divided into two parts—the Division of Pre-Professional Education and the Division of Professional Education. All programs of teacher preparation fall under these two divisions except the Limited Retraining Program, which is designed for practicing secondary certificate holding teachers who want to convert their certificates to elementary certificates.

A. The Pre-Professional Division generally covers the first two years of college work, or up to the quarter in which the student will attain 90 or more quarter hours of course work.

B. The Division of Professional Education begins the quarter in which 90 or more quarter hours of course work are attained. At this point the student must apply for admission to the Professional Division. All such transfers are made in the Admissions Office, 102 Administration Building, and may be made up to ten days before the start of a new quarter. Admission to the Professional Division is based on the standards below:
1. The student must have a minimum 2.25 point-hour ratio for all college work taken at The Ohio State University and at other institutions.

2. The student must present satisfactory evidence of effective English skills. This may be done by obtaining an average of 2.0 or better in freshman English courses, or a grade of "C" or better for English 103, or by having equivalent transfer credit from another institution.

3. The student must have a recommendation of progress in his major area by his area adviser. (Students are advised to declare their major teaching area prior to applying for the Professional Division. Area advisers are assigned at the time of the declaration of the major.)

4. The student must have adequate speech, hearing, and health status in order to perform the functions required of a teacher.

All students transferring from other universities and all post-degree students must meet requirements under points 1, 2, and 4 above. Upon successful completion of one quarter of academic work at this University and in courses involving their major fields, they must comply with the requirement under point 3.

The Professional Division was inaugurated with the Autumn Quarter 1964. Due to this time element, some students will not be required to meet the standards set up by the Professional Division. Admission is based on the following points:

1. All freshmen entering the College of Education during the Autumn Quarter 1964, or afterwards.
2. All students transferring into the College of Education from within the University or from another institution in or after the Autumn Quarter 1964.
3. All students who after the Summer Quarter 1964, have been out of school for one calendar year or more, and who re-enroll in the College of Education for a teacher preparation program.
4. All students, regardless of first enrollment date, who have been dismissed for academic reasons.

REGISTRATION PROCEDURE

For the student who is in residence, schedule cards for registration are distributed from the office of the college in which he is registered except for the Autumn and Summer Quarters, when they are distributed by the Registrar. Under the quarter plan, the student formally schedules his program of studies for only one quarter at a time, although he may informally plan several years ahead with his adviser.

SCHEDULING

Preparing and Filing Schedules each Quarter. Each student is responsible for planning his own schedule, using the College Bulletin for assistance. If further help is needed, he should consult with a counselor in the College office, 110 Arps Hall, or with the adviser in his major field of specialization.

Foreign Languages. Students with previous credit in German, French, Spanish, Russian, or Latin are required to take a language placement test which will indicate the University course each is best prepared to take. No placement test is required of those who are beginning their study of a foreign language.

Beginning language courses which duplicate high school credit are considered to be "review-type" courses and therefore add hours to the total number hours required for graduation. Courses used this way cannot be counted to meet the requirements of the major or minor teaching area, so additional courses can be taken in consultation with the adviser.

Electives included in the programs of freshmen must be selected from courses numbered 100-199. Upperclassmen may select courses for which they can meet the prerequisites and for which their class standing makes them eligible.

Incompletes. In no case shall a student who has received the mark of "incomplete" be permitted to repeat the course in which such a mark was received until such time that the incomplete has been removed.

To Audit a Course. Written approval of the instructor, the head of the department, and the College office is required.
Additions to Scheduling. Every addition must be initiated in the College office. After the first week of classes a student may add a course to his schedule only with permission of the instructor, the chairman of the department, and the College office.

Dropping a Course. Withdrawal from a course after the beginning of the quarter is permitted only to adjust for unavoidable errors in registration, failure in prerequisite courses, official changes in publicized quarterly offerings, or other conditions beyond the control of the student. It is expected that the student will plan his program carefully before scheduling and then register for the specific courses he intends to pursue for the entire quarter. Deviations from a normally required program should be discussed with a counselor preferably before scheduling and definitely no later than the beginning of the quarter. A request for withdrawal from a course because of emergency circumstances beyond the student's control, such as severe illness, an accident, or comparable situation must be discussed with a counselor in the College office.

Change of Time of Scheduled Course. A student who wishes to change from one section of a course to another section given at a different time may do so with the approval of the department concerned. The student should make his request in the department office.

CLASS STANDING
The class standing of students in the College of Education is determined on the basis of total hours completed, as follows:

<table>
<thead>
<tr>
<th>Class</th>
<th>Total Hours Inclusive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>0-48</td>
</tr>
<tr>
<td>Sophomore</td>
<td>49-97</td>
</tr>
<tr>
<td>Junior</td>
<td>98-146</td>
</tr>
<tr>
<td>Senior</td>
<td>147-224</td>
</tr>
</tbody>
</table>

GRADUATION REQUIREMENTS

A. The student enrolled in the College of Education must complete at least 196 quarter hours of course work credit; however, various combinations in teaching areas will have different minimum hour requirements as indicated below:

<table>
<thead>
<tr>
<th>Program</th>
<th>Minimum Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>All 12-quarter teacher preparation programs</td>
<td>196</td>
</tr>
<tr>
<td>All 12-quarter non-teaching programs</td>
<td>196</td>
</tr>
<tr>
<td>Art Education</td>
<td>210</td>
</tr>
<tr>
<td>Dance Education</td>
<td>207</td>
</tr>
<tr>
<td>Music Education</td>
<td>197</td>
</tr>
<tr>
<td>Combined Curricula (Dual-degree programs)</td>
<td>226</td>
</tr>
</tbody>
</table>

B. The student who has not been required to enter the Professional Division must have a minimum 2.00 point-hour ratio in all University work except his major and minor areas, in each of which he must have a 2.25 point-hour ratio.

C. The student who has entered the Professional Division must have a 2.25 point-hour ratio or above in all work taken at this University, and at least a 2.25 point-hour ratio in his major and minor areas.

D. The candidate for a degree must be in residence at the University for three full-time quarters (a minimum of 45 hours or more) of work immediately prior to graduation. Only under extreme circumstances will the Executive Committee of the College of Education consider a petition to waive one quarter of this requirement. The petitioner must have completed six full-time quarters of satisfactory work at the University, including 45 quarter credit hours during the junior and senior years.

E. Every candidate is required to apply for a degree three quarters before his expected time of graduation. He also must notify the College office immediately if his expected date of graduation changes. The application form for candidacy for the baccalaureate degree may be obtained in the College Office, 110 Arps Hall.

F. All seniors who are prospective candidates for the degree Bachelor of Science in Education should register with the Educational Personnel Placement Office, 176 Arps Hall, not later than the fourth week of the next to the last quarter before graduation. This is required of all students regardless of intent not to teach.
G. The student should check with a College counselor in his junior year concerning his program requirements and progress.

H. For the information of candidates, the College Office, near the beginning of each quarter, posts a tentative list of candidates for all degrees. This list is on the official bulletin board outside the College office. It should be checked by the potential candidate for his name. If the name does not appear, the student should check immediately with the College office.

GRADUATION

A. Graduation Fee. No graduation fee is charged for persons receiving the bachelor's degree.

B. Instruction for Graduates. A meeting is held each quarter for the graduating seniors of the College of Education. All prospective graduates receive notification of time and place, and the College office should be notified immediately of any change of address. Printed instructions, with detailed information concerning rehearsal and Commencement, are mailed to all graduating seniors approximately two weeks before Commencement. Attendance at rehearsal is required unless excused by the senior adviser.

C. Commencement Convocation. A special Convocation or Commencement is scheduled at the close of each quarter for the conferring of degrees upon candidates who have fulfilled all the requirements for their respective curricula. All candidates are required to be present at their graduation convocation unless excused by the President.

D. Degrees with Distinction. The College of Education grants the Bachelor degree *cum laude* or *summa cum laude* to a limited number of selected students. The College Committee on Degrees with Distinction will recommend to the faculty for graduation *cum laude* or *summa cum laude* those persons who have met the criteria of superior undergraduate attainment and outstanding professional promise which have been established by the College. These criteria include: (a) evidence of high professional promise as shown by the student's total record and especially by superior accomplishment in student teaching; (b) scholarship as indicated by a minimum accumulative point-hour ratio for the four years of 3.50 for graduation *cum laude* and 3.70 for graduation *summa cum laude*; (c) leadership experience and ability; (d) recommendation by the adviser or the faculty in the area of specialization (e) completion of 90 hours work in residence at this University.

CERTIFICATION

All Bachelor of Science in Education graduates are eligible, upon application, for the appropriate Ohio four-year provisional teacher's certificate. Official application forms with instructions will be mailed to all prospective graduates with the notification of the senior meeting. If the student contemplates teaching within a year after graduation, the application should be completed and returned to the College office immediately after the senior meeting.

The completion of a College of Education curriculum leading to the degree Bachelor of Science in Education is a necessary condition for recommending the graduate for the appropriate provisional teaching certificate, which is valid for four years.

After three years of successful experience in teaching and additional professional preparation, the teacher may qualify for the eight-year professional certificate and, later, for a permanent teacher's certificate. Application for the eight-year professional and permanent certificate should be made directly to the Division of Teacher Certification, State Department of Education. Under Ohio law, a person cannot receive compensation for teaching in a school supported wholly or in part by state or federal funds unless he holds a currently valid teacher's certificate.

In general, the pattern of teacher-education curricula offered by the College of Education will qualify the student for the initial teacher's certificate in states other than Ohio. However, if a student contemplates applying for a teacher's certificate in another state, he is advised to do the following:

1. Write to the Director of Teacher Certification at the state capital of that state not later than his junior year, requesting a bulletin covering current certification requirements, and
2. Check with a counselor in the College office, 110 Arps Hall, regarding any extra courses that he may need to complete.

RETNENTION STANDARDS

A. UNIVERSITY AND THE PRE-PROFESSIONAL DIVISION OF THE COLLEGE OF EDUCATION

All students who are not enrolled in the Professional Division must maintain the point-hour schedule indicated. During the first and second quarters of work at the University, the student must achieve at least a 0.75 cumulative point-hour ratio. Thereafter, the student must achieve or exceed the minimum point-hour ratio at the end of each quarter as indicated below:

<table>
<thead>
<tr>
<th>Quarters in Enrollment</th>
<th>Cumulative Point-Hour Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 4, and 5</td>
<td>1.70 (or 2.0 on the quarter carrying a 12-hour load)</td>
</tr>
<tr>
<td>6</td>
<td>1.90</td>
</tr>
<tr>
<td>7 and subsequent quarters</td>
<td>2.00 at the end of one of the two last quarters of enrollment</td>
</tr>
</tbody>
</table>

B. PROFESSIONAL DIVISION OF THE COLLEGE OF EDUCATION

Students who are eligible and who have achieved 90 or more quarter hours of course work must enter the Professional Division. Those who fail to meet the standards indicated below will not be permitted to remain in the College of Education.

1. Upon entering the Professional Division, the student must have earned and must maintain a minimum 2.25 cumulative point-hour ratio.

2. Those students who do not earn 2.25 point-hour ratios during the first and second quarters in the Professional Division will be placed on probation.

3. At the end of the third quarter and thereafter, each student must have a minimum 2.25 point-hour ratio or be subject to dismissal.

DISMISSAL FROM THE UNIVERSITY

(See Book 18).

REINSTATEMENT PROCEDURES

All students who have been dismissed for academic reasons may apply for reinstatement in the College of Education or other colleges within the University. The dismissed student may not be considered for reinstatement until three quarters of the University year have passed. Students who are dismissed or discontinued in the Division of Professional Education must also have a period of three quarters elapse before being considered for readmission to a teacher education program and must follow the steps outlined below. The steps to follow during the third or subsequent quarter of absence are:

A. All petitions for reinstatement must be filed before the end of the fourth week of the quarter prior to the quarter desired for reinstatement.

B. The student should consult with a counselor in the College office, 110 Arps Hall.

C. At the time of the interview with a counselor, the student may be given a petition for reinstatement which is filled out at that time. It is the responsibility of the student to identify the factors which contributed to his lack of academic success and to undertake any appropriate corrective action.

D. The petitioner will be notified by mail of the decision of the Petitions Committee. The decision of the Committee is final.

PLANNING A PROGRAM

COUNSELING AND HELP IN PLANNING A PROGRAM

In the College of Education, the College office is the counseling center for students. The responsibility for counseling is shared by members of the teaching staff who serve as faculty advisers, full-time College office counselors, and the Assistant Dean of Student Personnel, who supervises counseling in the College office. Each area has designated faculty members who serve as advisers to the students who are specializing in that area. The responsibility for the major program rests with the College office.
and the faculty advisers in each of the academic areas. The counseling staff in the College office will assist in planning the fulfillment of the student’s program. Individual counseling is also available in the College office. Referrals are made to other specialized University counseling offices.

ORIENTATION AND WELCOME PROGRAMS
All new undergraduate students are required to attend both the Orientation Program and the Welcome Program, held each quarter of the school year. Information regarding these programs is mailed to the student prior to the opening of the quarter in which enrollment is desired. Refer to Book 1, Page 20 for further information about the Orientation Programs.

All projects necessary for registration and scheduling of courses, including required placement tests, are provided in the two-day Orientation Program, held each quarter prior to the start of the regular academic schedule. These two-day programs extend over several weeks during July, August, and September. Course schedule cards, given out during the program, are completed with the help of a College counselor after placement tests have been completed.

New students enrolled in undergraduate colleges who have earned four-year degrees elsewhere and new transient students may be excused from the Orientation Program. Undergraduate students from other institutions entering with advanced standing will be notified as to orientation testing required of them.

DECLARATION OF MAJOR
Each student in the College of Education must declare his major with the College office not later than the third quarter of his sophomore year, or when he has accumulated 90 quarter hours. Advanced transfer students should arrange to declare their majors the first quarter in school.

The declaration of major area is accomplished by submitting an application to the College Office, 110 Arps Hall. Materials listing the requirements of the student’s program, field experience, and the area adviser(s), will be mailed to the student. If the student has questions concerning the declaration of major procedure, he should consult with a counselor in the College office; if he wishes to change his major, he should apply for a redeclaration.

EDUCATIONAL PERSONNEL PLACEMENT SERVICE
The Ohio State University maintains an Educational Personnel Placement Service for graduates and graduate students qualified for public school or college teaching or administration. Placement counselors in the Educational Personnel Placement Office recommend professional personnel to superintendents, boards of education, colleges, and universities throughout Ohio and the United States. Educational counseling and placement are the primary functions of this office. Graduates and graduate students are invited to register with the Educational Personnel Placement Office, Room 176, Arps Hall. Registration with this office is a prerequisite for graduation with a B.Sc. in Edu. degree from the College of Education. There is no charge for the service.

WITHDRAWAL FROM THE UNIVERSITY
(See Book 18.)
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 Book 18 of the University Catalog Series.

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. Students and wives 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 Opportunities 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.

NATIONAL DEFENSE STUDENT LOAN PROGRAM

The National Defense Student Loan Program is the major loan source for both undergraduate and graduate students, granting up to $1,000 per year to undergraduate and up to $2,500 per year to graduate students. Included are the following advantages:

1. Required minimum repayment of $45 per quarter, starting nine months after graduation or withdrawal.
2. No interest while a full-time student or for nine months thereafter.
3. After this grace period, the rate of interest is 3 percent per annum on unpaid balance.
4. Yearly 10 percent cancellation of up to 50 percent of the loan given to full-time teachers; over 50 percent if teaching the handicapped or teaching in a low-income area.

* (Note application dates below.)

UNIVERSITY LOANS

University loans are granted for short-term needs as well as 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 applications for National Defense or University loans must adhere to the following schedule of application periods:

Autumn Quarter ........ August 1-August 21*
Winter Quarter .... November 1-November 21*
Spring Quarter .... February 1-February 21*
Summer Quarter ........ May 1-May 21

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 FOR UNDERGRADUATES

A number of scholarships are available to entering freshmen as well as to currently enrolled students. These include General University Scholarships with stipends from $100 to $800, Cooperative Housing Scholar-
ships in the Stadium Scholarship Dormitory (men) and Alumnae Scholarship Houses (women), and Educational Opportunity Grants. These grants for low-income families originated with the Higher Education Act of 1965. March 15 marks the application deadline.

**APPLICATION PROCEDURES FOR FRESHMEN**

Entering freshmen may apply for the above using the following procedure:

1. Send completed "Parents' Confidential Statement" to the College Scholarship Service before February 15. These forms are available in the high schools.
2. Send a completed "Freshman Scholarship Application" to the Student Financial Aids Office before March 15.
3. Have the high school principal or counselor complete a "Recommendation for Scholarship" and forward it to the Student Financial Aids Office before March 15. This form is included with the application.

**APPLICATION PROCEDURES FOR ENROLLED AND TRANSFER STUDENTS**

1. 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, and the applicants will be notified of the committee's decision by August 1.
2. Transfer students must have completed their admission to Ohio State University before being considered for scholarships. Applications must be submitted before March 15. Notification of the committee's decision will be sent by August 1.

**SPECIAL SCHOLARSHIPS**

Each college in the University has a number of special scholarships for students enrolled in the college. These special scholarships are listed below. A full description of the scholarships available University-wide can be found in Book 18 of the University Catalog Series.

---

### SCHOLARSHIPS IN THE COLLEGE OF EDUCATION

<table>
<thead>
<tr>
<th>NAME</th>
<th>ELIGIBILITY</th>
<th>NUMBER</th>
<th>YEARLY STIPEND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maribelle Seeley Baker Memorial</td>
<td>English or Elementary Education major</td>
<td>1</td>
<td>$1,000</td>
</tr>
<tr>
<td>Lydia Clark</td>
<td>Physical Education major</td>
<td>1</td>
<td>$300</td>
</tr>
<tr>
<td>Simon Lazarus Memorial</td>
<td>No special requirements</td>
<td>2</td>
<td>$300</td>
</tr>
<tr>
<td>Nationwide Foundation Health and Physical Education</td>
<td>Female Physical Education major with high proficiency in some skill or sport.</td>
<td>1</td>
<td>Varies</td>
</tr>
<tr>
<td>Bland L. Stradley</td>
<td>Elementary or Secondary Education majors</td>
<td>100 per entering class</td>
<td>Remission of fees</td>
</tr>
<tr>
<td>Margaret L. White</td>
<td>Delta Kappa Gamma members; apply to Prof. Arliss Roaden.</td>
<td>Seniors</td>
<td>Not Renewable</td>
</tr>
</tbody>
</table>
Programs Available

SUMMER PROGRAMS OF STUDY
In addition to the complete regular schedule of education courses, the College of Education annually conducts a number of workshops, conferences, and special events during the Summer Quarter. Students who wish to work intensively on problems of special interest may do so through registration in workshops which have been especially designed for teachers, administrators, and other professional workers.

Both credit and non-credit workshops are available in a variety of fields, and are scheduled at various times throughout the Summer Quarter. Any person enrolling in one of these programs must register with the University. A special bulletin containing a form requesting registration materials, and also giving additional information concerning the summer programs may be secured by writing to Dr. William B. McBride, Assistant Dean, Field Services, 118 Arps Hall, 1945 North High Street, Columbus, Ohio 43210.

UNDERGRADUATE WORK IN THE COLLEGE OF EDUCATION

FOUR-YEAR TEACHING PROGRAMS
Students enrolled in the College of Education may pursue one of several kinds of programs which lead to the degree Bachelor of Science in Education. These are listed below, and the student is referred to the index for detailed information and requirements of each program.

Art Education
Business Education
Dance Education
Dental-Hygiene Education
Distributive Education
Elementary Education
Exceptional Children
Foreign Language Education
French
German
Latin
Russian
Spanish

Industrial Arts Education
Journalism
Mathematics Education
Music Education
Physical Education
Health Education
Interscholastic Sports
Physical Education-Men and Women
Public Recreation (Non-teaching)
Psychology (Non-teaching)
Radio-TV-Speech Education
Science Education
Biological Science
Chemistry
Chemistry-Physics
Comprehensive Science (General)
Earth Science
General Science
Physics
Social Studies Education
Speech Education
Trade and Industrial Education

POST-DEGREE PROGRAMS
Elementary Retraining Program leading to certification
Secondary 45-hour Program leading to the B.Sc. in Edu. degree

COMBINATION CURRICULUM
Arts-Education
Conservation-Education
Dental Hygiene-Education
Fine Arts-Art Education
Music-Music Education

THE ABLE STUDENT PROGRAM
The Able Student Program of the College of Education is an inquiry-centered four-year program with special course offerings and is planned for students with ability who want to pursue their study in education in greater depth.

Students enrolled in teacher education who meet the requirements for admission to University honors programs are invited to participate. They may enter the program immediately on admission to the College, or later in their courses of study.

GRADUATE CREDIT FOR UNDERGRADUATES
An undergraduate student who has completed three years of course work and whose full time is not required for the completion of course work for his baccalaureate degree, may select certain courses for graduate credit provided his
cumulative point-hour ratio is 2.7 or above. He must obtain permission from the instructor in charge of the course, from the secretary of his college, and from the Graduate School before registering for the courses, and he must achieve a grade of "B" or better in such courses in order to obtain graduate credit. These courses will not be used for graduate credit until the student has been admitted to the Graduate School. Not more than 15 hours of such work may be counted toward an advanced degree.

STUDENT ORGANIZATIONS

Education Student Council. The College of Education Student Council is composed of representatives of the student body selected on the basis of leadership and successful scholarship (minimum 3.5 average). The Council endeavors to serve as a coordinating body among the students, faculty, and administration of the College. Each year several projects are planned and executed to foster a better understanding of the aims and purposes of the College. These projects have included Faculty-Student Coffee Hours; College Meeting sponsorship during Welcome Week; Freshman Recognition Tea; Faculty Fireside; and sponsorship of campus tours for high school F.T.A. students.

Student National Education Association. A campus chapter of the Student National Association was organized in 1960 for all students preparing for professional careers in teaching. Participation in this association also entitles the individual to student membership in the Ohio Education Association. In addition to representation at state and national conferences sponsored by OEA and NEA, the student member receives other services including several professional publications. Events of interest to those in the field of education are planned by the campus chapter.

GRADUATE WORK IN THE COLLEGE OF EDUCATION

Students desiring to do graduate work in the College of Education will register in the Graduate School. Graduate courses leading to the degrees Master of Arts and Doctor of Philosophy are offered in the following specialized areas of education:

- Adult Education
- Audio-Visual Education
- Art Education
- Business Education
- Curriculum and Instruction
- Deaf and Hard of Hearing
- Distributive Education
- Educational Administration
- Educational Research
- Elementary Education
- English Education
- Exceptional Children
- Foreign Language Education
- Guidance
- Higher Education
- History of and Comparative Education
- Industrial Arts Education
- Mathematics Education
- Medical Education
- Music Education
- Philosophy of Education
- Radio-Television Education
- Reading Education
- Science Education
- Secondary Education-General
- Speech Education
- Social Studies Education
- Teacher Education
- Vocational Trade and Industrial Education

PROFESSIONAL SOCIETIES

DELTA PHI DELTA

Delta Phi Delta is a national art honorary whose local chapter is Alpha Delta. Its purpose is to encourage and recognize superior scholarship of the undergraduate student in the arts area. Selection is open to majors in the School of Art who have a minimum cumulative average of 2.7 at the end of the freshman year and who have proved their ability in their arts area. The members serve the community in both the Sidewalk Art Show and in the College Fair Exhibit.

DELTA PI EPSILON

Delta Pi Epsilon is a national business research honorary. Rho Chapter is noted for its outstanding work on a national basis. Its purpose is to promote leadership, service, and research in business education, to encourage research, and to strive for professionalism on the part of business teachers. Any graduate student in this field who has completed at least 12 hours with at least a 3.0 average is eligible for membership.

EPSILON PI TAU

Epsilon Pi Tau, international honorary-professional fraternity in Industrial Arts and Industrial Vocational Education for upperclassmen and graduate students, was founded at this University in 1929. Its ideals are to develop its members along the lines of technical and social proficiency, active research efforts, and professional leadership. The fraternity holds meetings of international significance. Alpha Chapter conducts programs during the academic year and a series of weekly Forums during the summer.

KAPPA PHI KAPPA

Kappa Phi Kappa, national professional education fraternity for undergraduates in Education, established Alpha Eta Chapter at this University in 1926. Its purpose is to develop its members along the lines of technical and social proficiency, active research efforts, and professional leadership. Members are selected from men who have given promise of genuine interest in the professional study of education.

PHI DELTA KAPPA

Phi Delta Kappa, national men's education honorary, was founded in 1906: Sigma Chapter, in 1917. Its purpose is to promote leadership, service, and research in education. Qualifications for membership are graduate standing with a minimum of 15 hours in education and a 3.4 or higher average. A limited number of seniors are selected because of their high qualifications.
PI LAMBDATHETA
Pi Lambda Theta, national education sorority, is open to women students. Its purpose is to recognize those women with high scholarship and leadership in the field of education. Membership requirements include 90 hours in the College of Education, a minimum 3.25 average, and two faculty recommendations. The group has assisted in the program at the Columbus State School and participated in the Central State Regional Conference. The sorority was founded in 1917; Nu Chapter, in 1922.

PI OMEGA PI
Pi Omega Pi, national business education honorary, was founded in 1923; Alpha Xi Chapter, in 1939. Its purpose is to encourage and create interest and scholarship in the field. Selection of membership is from students, both men and women, of junior, senior, and graduate standing. To be eligible for membership, a student must be a business education major or minor with a 2.6 or higher average in all business and education courses. He must have completed 16 hours of business courses and 10 hours of education courses. Programs have included regular and pledge meetings, Founder’s Day Dinner, initiation dinner, meetings for seniors explaining visual aids, and a meeting for all business education students to explain student teaching.

SIGMA ALPHA ETA
Sigma Alpha Eta, speech and hearing honorary, has as its purpose to stimulate interest among students in the field of speech and hearing therapy. Any regularly enrolled student working toward certification in this field who ranks in the upper 36 percent of his class and has at least a 2.5 average is eligible for membership. The chapter at this University was established in 1954. Programs have included panels and speakers from various fields connected with speech and hearing.

ASSISTANCE INFORMATION FOR STUDENTS
COUNSELING CENTER
Detailed information concerning the Counseling Center can be obtained from both Book 1 and Book 18 of this Announcement series or by directly contacting the Counseling Center, 154 West 12th Avenue, Columbus, Ohio 43210.

FEES AND EXPENSES
Estimate of Expenses for First Academic Year (Three Quarters)

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee (nonrefundable)</td>
<td>$10</td>
</tr>
<tr>
<td>Acceptance Fee (nonrefundable)</td>
<td>$25</td>
</tr>
<tr>
<td>Instructional and General Fee</td>
<td>$435</td>
</tr>
<tr>
<td>Student Services Fee</td>
<td>$75</td>
</tr>
<tr>
<td>Books and Instruments (average)</td>
<td>$75</td>
</tr>
<tr>
<td>Special Laboratory Fees and other deposits*</td>
<td>$50</td>
</tr>
<tr>
<td>Room and Board in residence halls (average)</td>
<td>$888</td>
</tr>
<tr>
<td>Total</td>
<td>$1558</td>
</tr>
</tbody>
</table>

Non-residents add tuition surcharge $600

* A deposit of $40 is required for basic Army and Air Force ROTC uniforms, which are furnished by the federal government. The deposit is refunded when the uniform is returned. All fees are subject to change.
UNIVERSITY REQUIREMENTS

A. BASIC EDUCATION

Every curriculum in the following colleges—Agriculture and Home Economics, Arts and Sciences, Commerce and Administration, Education, and Engineering—includes a body of courses designed to assure 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.

It is understood that students transferring from other colleges and universities can meet part or all of the above requirements with approximately equivalent courses. Transfer students shall not be required to present credit in the specific courses listed below, but the credits for each transfer student shall be reviewed by the Director of Admissions and the appropriate college, and credit in all courses which meet the spirit of these basic education requirements shall be accepted.

Students in the College of Education will meet the University requirements in basic education by following the pattern of courses listed below. Courses used to fulfill either of these requirements cannot be counted toward the student's major teaching area.

1. Humanities (15 hours). Every student must complete a minimum of 15 hours in the humanities. Courses to meet this requirement should be selected from at least two of the following groups A, B, C, and D, but may be selected from three. A minimum of 8 hours must be taken in one of the four groups. Students are encouraged to follow a planned sequence when they select courses within any one of the groups.

   Group A: Fine Arts
   Fine Arts 110, 111, 130, 210, 211, 212, 213, 290

   Group B: Literature
   Courses in English: Chinese 251, 271
   Classics 220, 221, 222, 224, 225, 281
   Comparative Literature 101, 102 103 (not open to juniors and seniors)
   English 220, 240, 260, 262, 280, 290, 293, 294, 296, 299
   French 271
   German 261, 262
   Japanese 251, 282
   Linguistics 201

   Group C: Music
   Music 141, 142, 143, 241, 242, 243

   Group D: Philosophy
   Philosophy 100, 101, 130, 150, 170, 280, 240

2. Social Science (15 hours). Every student must complete a sequence of 10 hours in one social science and 5 hours in a second social science area except where there exists a planned sequence of 15 hours in a broad field.

   Group A: 15-Hour Broad Field Sequence
   History 121, 122, 123

   Group B: 15-Hour Sequences
   Anthropology 210-261
   Economics 201-402
   History 101-102, 103-104
   Political Science 100-225, 100-205, 225-265, 265-266
   Psychology 100-101
   Sociology 101-202 or 290

   Group C: 3 and 5-Hour Courses
   Anthropology 210, 261
   Economics 201, 402, 560
   Geography 200, 240, 240
   History 101, 102, 103, 104, 210, 211, 212, 213, 215, 216, 219, 232, 233
   International Studies 100, 230, 235
   Political Science 100, 205, 225, 245, 265, 275
   Psychology 100, 101, 300, 320
   Rural Sociology 105
   Sociology 101, 291, 292, 294, 296, 297, 298, 299, 464, 590

3. Science (15 hours). Every student must complete a sequence of 10 hours in one biological science and 5 hours in a physical science, or a sequence of 10 hours in one physical science and 5 hours in a biological science.

   Group A: Biological Sciences
   5-Hour Courses
   Anatomy 202
   Anthropology 251
   Biology 100, 101, 130
   Botany 100, 101, 102
   Botany 100, 101, 102
   Entomology 260
   Microbiology 509, 607
   Zoology 101

   10-Hour Sequences
   Biology 100-102
   Biology 100-Botany 102
   Biology 100-Zoology 101
   Botany 100-101

   Group B: Physical Sciences
   5-Hour Courses
   Astronomy 101, 102, 150
   Chemistry 101, 102, 121, 122, 212, 213, 215
   Geography 220
   Geology 100
   Physics 101, 102, 111, 112
   113, 120, 231, 232, 233

   10-Hour Sequences
   Astronomy 101-102
   Chemistry 101-102
   Chemistry 121-122
   Geology 100-101, 100-102
   Geology 100-Anthropology 251
   Physics 101-102, 111-112
   Physics 111-113, 281-282
   Physics 281-283

Courses in foreign languages:
French 421, 422, 423
German 225, 226, 227
Greek 200
Italian 421, 422, 423
Latin 104, 200, 201, 202
Russian 475, 476, 477
Spanish 421, 422, 423
Theatre 165, 671, 672, 673

Group C: Music
Music 141, 142, 143, 241, 242, 243

Group D: Philosophy
Philosophy 100, 101, 130, 150, 170, 280, 240
B. ADDITIONAL UNIVERSITY REQUIREMENTS

1. Physical Education
   The following requirements must be scheduled and satisfactorily completed during the first consecutive quarter of residence:
   - Health Education .............................................1 quarter
   - Physical Education ...........................................3 quarters

2. National Defense Education Options
   Students must satisfactorily complete one of the following four options:
   a. Military or Aerospace Studies or
   b. Ten credit hours of mathematics in addition to
   c. Ten credit hours of acceptable college credit in one foreign language
   d. Six credit hours of advanced level courses, chosen from the following list. (Courses in the field of the major cannot be used.)

   Humanities
   - Fine Arts 213, 515, 615, 628, 619, 621, 622, 627, 631, 635, 636
   - French 421, 621, 622, 623, 624, 625, 626, 627, 628, 631, 641
   - German 225, 226, 227, 621, 622, 623
   - Italian 421, 422, 423
   - Music 640, 641, 652, 644, 645, 651
   - Latin 301, 340, 344
   - Russian 476, 477, 478, 479, 480
   - Spanish 421, 607, 621, 622, 623, 624, 625, 628, 629, 630, 663, 721, 722

   Social Sciences
   - Anthropology 401, 410, 414, 416, 418, 430, 510, 610
   - Economics 500, 506, 555, 560, 655, 656, 684, 690, 697, 698
   - Geography 400, 401, 405, 408, 410, 412, 415, 416, 530, 546, 560, 650
   - Journalism 621
   - Political Science 205, 225, 245, 540, 565, 575, 626, 630, 655, 670, 671, 672, 678, 676
   - Psychology 320, 530, 630, 631
   - Sociology 207, 420, 480, 509, 560, 590, 608, 680

   Sciences
   - Biochemistry 511, 521
   - Biology 420
   - Botany 101, 410
   - Chemistry 102, 122, 123, 211, 231
   - Geology 200, 204, 500, 560
   - Physics 102, 111, 112, 232, 233
   - Psychology 501, 502

SPECIAL REQUIREMENTS FOR STUDENTS IN TEACHER EDUCATION

FIELD EXPERIENCE
   Students in all curricula are urged to participate as extensively as possible in school and/or community service as a part of their preparation for teaching. Each student is required to attain a reasonable level of competence in working with children and adults, and to have some paid work experience before being admitted to student teaching. The plan for meeting this field experience prerequisite for student teaching must be completed at least one quarter prior to the quarter in which the student enrolls in student teaching.

   Particular emphasis is placed, at the beginning of the sophomore year, on participation in public schools in September prior to the opening of the University. All students are required to have this September Field Experience at least once prior to their enrollment in student teaching. Students should attend one of the orientation meetings held the last full week in April to get further information and instructions on procedures to be followed in gaining approval for this experience in the school of their choice near their residence in September.

   Another type of field experience which is especially recommended is first-hand contact with children or youth through group leadership in non-school community agencies. Students should come to the Student Teaching Office prior to or near the beginning of a quarter and get assistance in arranging for volunteer service in a local community agency.

STUDENT TEACHING

Enrollment in student teaching in the College of Education is open only to those students who have met all the requirements stated under the specific course descriptions and the eligibility standards of this section, and in addition are pursuing one of the degree or certification programs offered by the College.

Application for Student Teaching. Preliminary applications for student teaching must be filed in the Student Teaching Office during the Spring Quarter for the next academic year and not later than three quarters prior to the quarter in which a student expects to enroll in student teaching. Students must also fill out student teaching placement cards and two copies of a Personal Data Record.

Recommendation of the Teaching Area. Final approval for student teaching shall be limited to those students who have been recommended for such enrollment by the professional staff (College of Education) in the teaching area in which the student teaching is to be done.
Residence. At least two quarters must be completed in the College of Education before a student can be eligible to do student teaching.

Academic. A student who is on academic probation is not eligible to do student teaching.

Student Teaching Grades. Letter grades A, B, C, and D will not be used for student teaching courses. Evaluation of a student's work in student teaching will consist of a mark of "S" (satisfactory), or "U" (unsatisfactory), and a letter of reference by the area supervisor which will be filed with the student's credentials in the Educational Personnel Placement Office.

Student Teaching Fee. Students are assessed a special laboratory fee of $10 each quarter in which they register in any one of the following student teaching courses, Education 585, 586, 587, 588, and 710, regardless of the number of hours of registration. Students who register in more than one student teaching number in the same quarter pay the student teaching fee for each of the above numbers in which they register.

Senior Standing. A student must have completed a minimum of 147 quarter credit hours prior to enrollment in all student teaching courses except Education 586.

Curriculum for Teaching Areas

ELEMENTARY EDUCATION
The programs in elementary education prepare students for teaching in grades 1 through 8. The following elementary education programs are offered to meet the various needs and interests of teachers in this area, and all requirements are listed with the curriculum of each program.

1. The Standard Four-Year Elementary Program.
2. The Elementary-Special Program for elementary majors who wish to specialize in the teaching of exceptional children.
3. The Dual-Degree Program: Arts-Education.
4. The Post-Degree Program
5. The Limited Retraining Program.

THE STANDARD ELEMENTARY EDUCATION CURRICULUM
This four-year curriculum leads to the degree Bachelor of Science in Education and requires the completion of 196 credit hours.

I. General University Requirements (Listed on page 19)
II. General College Requirements (Listed on page 12)
   English 101, 102, 103—Composition and Reading
   Geography 220—Introduction to Geography
   Geography 240—Economic Geography
   Mathematics 106—Principles of Mathematics
   Sociology 101—Introductory Sociology
III. University Basic Education Requirements (Listed on pages 18-18)
   Humanities: 18 hours
   Fine Arts 290—Fundamentals of Art
   Additional Requirements: 10 hours
   Science: 15 hours
   Social Science: 15 hours
   History 103—History of the United States
   History 104—History of the United States
   Psychology 100—General Psychology
IV. Required Professional Courses
   Education 460—Child Guidance
   Education 461—Conceptions of Teaching
   Education 467—Introduction to Children’s Literature
   Education 502—Arithmetic
   Education 507—Language Arts
   Education 508—The Social Studies
   Education 511—Science
   Education 513—Reading
   Education 555.10—Student Teaching
   Education 632—The History of Western Education
   Education 637—Philosophy of Education
   Fine Arts 500—Art for Elementary Teachers
   Health Education 300—Health Education for Elementary Teachers
   Music 270—Basic Experience in Music: Fundamentals
   Music 271—Basic Experience in Music: Literature and Listening
   Music 370—Music for Elementary Teachers
   Physical Education 325—Creative Physical Education for Elementary Teachers
   Psychology 230—Introduction to Educational Psychology
   Sociology 220—Sociology of Education; or Anthropology 261—Introduction to Anthropology
   Speech 235—Speech Functions and Responsibility of the Teacher
V. Electives
   a. Education 460 is a prerequisite to many courses in the education sequence.
   b. Since a student enrolled in Education 460, 508, and 513 must participate extensively in schools, he should not schedule more than 20 hours of course work while enrolled in these courses. In the Summer Quarter, these courses are not open to degree-seeking students in this curriculum who have not had teaching experience.
   c. Students are urged to pre-plan the electives in the curriculum. Students having considerable proficiency in a modern foreign language, especially in the oral use of the language, may wish to take their electives in that language, and should consult a counselor in 110 Arps Hall for information on the requirements for adding certification in a language to the provisional elementary certificate.

Additional Student Teaching Requirements To Be Met by Students in Elementary Education Curricula
1. Completion of all required courses in the professional sequence, except Education 682 and 687.
The latter may be taken concurrently with or following Education 585.

2. A minimum of 15 quarter hours of credit in Education 585.10 is required for graduation. This involves full time in the school, (8:15 a.m. to 3:45 p.m. daily), except for the time necessary to come to the campus for the student-teaching seminars on Tuesday afternoons.

3. A minimum 9 quarter hours of credit in Education 585 must be earned in residence in this College in all the degree and certificate programs in elementary education. Transfer credit in Education 585 is accepted from accredited institutions up to a maximum of 6 quarter hours to apply on the requirement in elementary education.

4. A minimum point-hour ratio of 2.25 or higher in the entire professional sequence.

5. Students in the regular degree curriculum who have had three or more years of successful teaching experience should enroll in Education 585.11 and should make application for special approval several quarters in advance in the Student Teaching Office.

6. Students in the elementary education curriculum are not permitted to register for more than 15 quarter hours of credit including Education 585. Permission to register for 16, 17, or 18 hours of credit may be granted upon the written recommendation of the instructor in charge of Education 585, under special circumstances.

**Elementary Teacher's Certificate.** Students who have completed the foregoing curriculum, as outlined, are eligible for the four-year provisional elementary certificate, valid in grades 1 through 8.

**Kindergarten-Primary Teacher's Certificate.** Students who wish to qualify for the kindergarten-primary certificate in Ohio will complete the requirements for the elementary degree curriculum as listed above. They will also take Education 501 and do student teaching at the appropriate level. Home Economics 382 and Sociology 437 are recommended. The student must declare his intention when he registers for student teaching and must secure the approval of the elementary education staff.

**ELEMENTARY SPECIAL EDUCATION**

This curriculum has been planned for elementary majors who wish to specialize in the teaching of exceptional children, and requires the completion of 196 credit hours. It leads to the degree Bachelor of Science in Education. Two undergraduate programs in this area are offered: (1) **Teaching the Blind and Partially Seeing**, and (2) **Teaching the Mentally Retarded**. Students interested in either of these programs should consult the appropriate adviser in the Area of Exceptional Children, Arps Hall.

Elementary Special Education is an integrated program which combines the requirements of the elementary curriculum (with the exception of Education 632, Fine Arts 500, Music 270 and 271, which are not required) with the curriculum of the desired area of specialization. Refer to the following pages for the course and hour requirements in these areas: Blind and Partially Seeing, page 39; Mentally Retarded, page 39.

Since some of the courses in these programs must be taken in sequence, students must be alert to schedule the first course of each sequence at the beginning of the junior year. At completion of all requirements, students will be certified as elementary teachers with specific validation in the area of exceptionality elected.

**ARTS-EDUCATION**

The student pursuing this curriculum should register in both colleges as soon as he has decided to become a candidate for both degrees. The entire program of study must be approved by appropriate advisers in each college, and each quarter's schedule must be approved by both colleges. Students may qualify for certification in this program in either the elementary or the secondary area. The normal curriculum covers 14 quarters of residence. However, able students may seek approval for heavier loads any quarter except the one in which student teaching is scheduled, and complete the program in approximately 13 quarters.

The following program lists the requirements of this dual-degree program which requires completion of a minimum of 226 hours with a cumulative point-hour ratio of at least 2.00 on all work undertaken at this University. Refer to p. 16 for the admission requirements to the Division of Professional Education in the College of Education.

**I. General University Requirements**

(Listed on page 19)

**II. General College Requirements**

(Listed on page 12)

**III. University Basic Education Requirements**

(Listed on pages 18-19)

1. **Humanities:** 15 hours
   - Music 141—Introduction to Music
   - Philosophy 210—Philosophical Bases of Western Culture
   - Additional Requirements: 7 hours
2. **Science:** 16 hours
   - History 121, 122, 123—The Western World in Modern Times
3. **Social Science:** 16 hours
   - World Regional Geography
4. **Additional Course Requirements in the Dual-Degree Program**
   - Major Area of Specialization (College of Arts and Sciences)
   - Economics 201—The Economic System; or Political Science 265—Fundamentals of Government
   - English 301—Informative Writing
   - Foreign Language (College of Arts and Sciences)
   - Geography 220—Introduction to Geography and Geography 240—World Regional Geography or Geography 240—Economic Geography
6. Psychology 100—General Psychology; or 300 Introductory Psychology

V. Required Elementary Professional Courses
- Education 460—Child Guidance
- Education 461—Conceptions of Teaching
- Education 467—Introduction to Children’s Literature
- Education 502—Arithmetic
- Education 507—Language Arts
- Education 508—The Social Studies
- Education 511—Science
- Education 513—Reading
- Education 585.10—Student Teaching
- Education 637—Philosophy of Education
- Fine Arts 290—Fundamentals of Art
- Fine Arts 500—Art for Elementary Teachers
- Health Education 300—Health Education for Elementary Teachers
- Mathematics—10 hours above the level of, but not including, Mathematics 101—Basic Mathematics
- Music 270—Basic Experience in Music:
  - Fundamentals
  - Music 370—Music for Elementary Teachers
- Physical Education 323—Creative Physical Education for Elementary Teachers
- Psychology 560—Educational Psychology

Students should note that certain courses are closed in the summer, (see University Book 18, course description) and that Math 105 is prerequisite for Education 502. Students should obtain from the College office a “Course Plan Sheet” with information regarding the prerequisites for other courses in this program.

ELEMENTARY LIMITED RETRAINING
State Department of Education regulations provide that the holder of a currently valid provisional or higher high school or special teacher’s certificate may obtain a retraining certificate valid for teaching in the elementary grades by completing a minimum of 18 quarter hours in specified courses in elementary education.

The courses at this University which meet the requirements for obtaining the Retraining Certificate are as follows:
- Education 460 (prerequisites waived)
- Education 461 (prerequisites waived except 460)
- Education 502 (prerequisite 460 or concurrently, Mathematics 105 or equivalent)
- Education 508 (prerequisites waived except 460)
- Education 513 (prerequisites waived except 460)

Upon completion of these courses, the student should submit an application (including an official transcript) and a fee of $2 direct to the Director of Teacher Education and Certification, State Department of Education, 605 State Office Building, Columbus, Ohio 43215.

In this manner a student may obtain a Four-Year Provisional Retraining Elementary Certificate. It may be converted to a standard certificate only by completing 18 additional quarters of credit applicable to a degree in elementary education.

SECONDARY EDUCATION
Students who wish to teach in junior and senior high schools will enroll in one of the following programs in secondary education:
1. The General Secondary Program
2. A Comprehensive Area Program
3. The Post-Degree 45-Hour Program
4. A Dual-Degree Program

All the programs offered in secondary education are degree programs, and the student should choose the one which best meets his special interests and abilities. Each of the programs is outlined in the following section.
THE GENERAL SECONDARY EDUCATION PROGRAM

This program is planned for students who wish to teach in two or more areas. It requires the completion of 196 credit hours, and the satisfactory completion of the course requirements outlined in the general secondary curriculum. Students who complete this program will receive the degree Bachelor of Science in Education, and will be eligible to apply for the Ohio Four-Year Provisional High School certificate validated for the teaching of all completed areas of specialization.

I. General University Requirements
   (Listed on page 12)

II. General College Requirements
   (Listed on page 12)

III. University Basic Education Requirements
   (Listed on pages 18-19)

1. Humanities: 15 hours
2. Science: 15 hours
3. Social Science: 15 hours

   Psychology 100—General Psychology
   Social Science sequence

IV. Completion of One of the Following Two Options Is Required for Graduation

1. Two major secondary areas or
2. One major and one minor in secondary areas.
   (Minor must have a minimum of 30 hours of content courses.)

V. Required Professional Courses

   Education 435—Theory and Practice in Secondary Education
   Education 587—Student Teaching in Secondary Schools
   Education 632—The History of Western Education or 636—Historical Foundations of American Education
   Education 637—Philosophy of Education
   Health Education 301—Health Education for Secondary Teachers
   Psychology 230—Introduction to Educational Psychology
   Methods courses for both major and minor teaching areas

VI. Electives

Free electives to complete the 196 credit-hour requirement.

Additional Student Teaching Requirements
To Be Met by Students in All Secondary Curricula

1. Completion of at least 75 percent, in terms of credits, of the major area in which the student teaching is to be done, or the major sequence of courses as prescribed in special curricula for certification.
2. A point-hour ratio of 2.25 or higher in all courses in the major teaching area which have been taken at this University.
3. A point-hour ratio of 2.25 or higher in all required professional courses taken at this University. The professional course sequence includes Psychology 230, all methods courses, and other education courses required in each curriculum.

4. Satisfactory completion of required methods courses, except those which may be taken concurrently with student teaching.

5. A minimum of 12 quarter hours of credit in Education 587 is required for the degree and certification in Ohio in all general secondary curricula. Twelve quarter hours of credit in Education 587 involves spending a minimum of four clock hours per day in the school exclusive of lunch; students who elect 15 quarter hours of credit spend full time in the school, 8:30 A.M. to 3:30 P.M. daily, except for time necessary to come to the campus for the student-teaching seminars.

6. Students majoring in programs of art, music, and the Area of Exceptional Children should check with their advisers in these areas for the specific pattern of requirements for student teaching in these fields.

7. Students in the general secondary industrial arts, business or distributive education curricula are not permitted to register for more than 16 quarter hours of credit including Education 587. Permission to register for 17 to 18 hours of credit may be granted upon the written recommendation of their advisers under special circumstances.

ART EDUCATION

Students seeking a professional status in Art Education should check the School of Art section in Book 4, or consult an adviser in the School of Art. Students who wish to major in Art Education enroll in the College of Education and upon completion of the program receive the degree Bachelor of Science in Education.

The Art Education curriculum is designed for the professional preparation of art teachers and requires completion to 210 credit hours. The prospective teacher's own experience and knowledge about art forms the basis for his professional education. Acquaintance with a wide variety of art media is synthesized with a knowledge of child developments and of current educational practices through study, laboratory, and field experiences.

All graduates are eligible, upon application, for the Ohio Four-Year Provisional certificate valid for the teaching of fine arts in grades 1 through 12.

Students in this program should maintain close contact with the adviser in Art Education for help in planning and scheduling.

I. General University Requirements
   (Listed on page 18)

II. General College Requirements
   (Listed on page 12)

III. University Basic Education Requirements
   (Listed on pages 18-19)

1. Humanities: 15 hours
   (To be chosen from Groups B, C, D)
2. Science: 15 hours
3. Social Science: 15 hours

   Psychology 100—General Psychology; Social sequence
IV. Content Courses in Major Area

Fine Arts Studio
- Fine Arts 170—Drawing and Fine Arts Orientation (Freshman Year)
- Fine Arts 71—Drawing (Freshman Year)
- Fine Arts 175—Painting (Sophomore Year)
- Fine Arts 180—Sculpture (Freshman Year)
- Fine Arts 240—Elementary Ceramic Art (Freshman Year)
- Fine Arts 258—Typography (Sophomore Year)
- Fine Arts 272—Life Drawing (Sophomore Year) or Fine Arts 273—Oil Painting (Sophomore Year)
- Fine Arts 276—Introduction to Printmaking (Sophomore Year)
- Fine Arts—15 Hours of Additional Study in one studio field

Fine Arts History
- Fine Arts 111—Introduction to Art (Freshman Year)
- Fine Arts 210—History of Western Art I (Sophomore Year)
- Fine Arts 211—History of Western Art II (Sophomore Year)
- Fine Arts 212—History of Western Art III (Sophomore Year)
- Fine Arts History—5 Hours of Additional Study
- Fine Arts Electives—5 Hours in Studio or Art History

V. Professional Requirements

Education 461—Elementary Education: Conceptions of Teaching (Junior Year)
Education 586.03—Supervised Student Teaching in Elementary School (Senior Year)
Education 435—Theory and Practice in Secondary Education (Junior Year)
Education 587.03—Student Teaching in Secondary Schools (Senior Year)
Education 637—Philosophy of Education or 632—The History of Western Education
- Fine Arts 200—Orientation of Art Education (Sophomore Year)
- Fine Arts 401—Art Education Laboratory (Junior Year)
- Fine Arts 402—Art Education Laboratory (Junior Year)
- Fine Arts 603—Theory of Art Education (Senior Year)
- Philosophy 240—Esthetics
- Psychology 230—Introduction to Educational Psychology (Junior Year)

BUSINESS EDUCATION

Students who are preparing for the teaching and supervision of business subjects should register in the College of Education. Those who expect to engage in business should register in the College of the Social Sciences.

The Area of Business Education offers the following curricula for the teaching of business education:

With stenography and shorthand:  
1. Comprehensive Business Education A  
2. Minor: Stenography-Typing

Exclusive of shorthand:  
1. Comprehensive Business Education B  
2. General Secondary major  

Certification in all the business education curricula is on the secondary level and covers eligibility for teaching in grades 7 through 12.

COMPREHENSIVE MAJORS

Business Education A and B

The two comprehensive majors in business education are explained here in detail. Both require completion of the University and College requirements listed under sections I, II, and III, combined with the specialized curriculum requirements listed in sections IV and V of the area chosen.

I. General University Requirements

Students taking Business Education B must take 16 hours of mathematics.

II. General College Requirements

III. University Basic Education Requirements

Business Education A

This curriculum provides a minimum preparation for the teaching of all phases of business education in secondary schools. It meets the requirements of the Ohio Four-Year Provisional High School certificate and is valid for teaching bookkeeping, business economics, business English, business law, business organization and management, clerical practice, general business, merchandising, retail store selling, salesmanship, secretarial practice, stenography, and typing.

Students who have had some preparation in shorthand and typing will be given competence tests on the first day of Education 206 and Education 208 at the beginning of the second year to determine which of these course requirements they have to meet for admission to Education 210. Examinations will be repeated on the first day of Education 207 and 209.

Students wishing to enroll in Education 210, by proficiency examination, must report to the course listed for the examination.

I, II, and III

IV. Content Courses in Major Area 

Business Organization 220—Personal Finance  
Business Organization 304—Secretarial Work  
Business Organization 509—Principles of Management  
Business Organization 512—Legal Environment of Business  
Business Organization 611—Business Law; Agency and Partnerships or Business Organization 612—Business Law; Commercial Paper and Sales  
Business Organization 640—Insurance and Risk
Business Organization 650—Marketing
Business Organization 763—Retailing
Economics 506—Current Economic Problems, or Economics 880—Labor Economics and Industrial Relations, or Economics 651—Consumption Economics
English 301—Informative Writing
Education 206, 207—Typewriting I and II
Education 208, 209—Shorthand I and II
Education 210, 211, 212—Advanced Stenography I, II, and III
Geography 240—Economic Geography
Electives (upper level) from Accounting, Business Organization, or Economics: 6 hours

V. Required Professional Courses
Education 435—Theory and Practice in Secondary Education
Education 520—Teaching Typewriting and Office Practice
Education 522—Teaching Bookkeeping and Office Machines
Education 524—Methods of Teaching Basic Business Subjects
Education 587.23—Student Teaching in Secondary Schools
Education 601—Business and Office Education Programs
Education 632—The History of Western Education or 636—Historical Foundations of American Education
Education 637—Philosophy of Education
Health Education 301—Health Education for Secondary Teachers
Psychology 230—Introduction to Educational Psychology

THE GENERAL SECONDARY MAJOR

Business Education (Exclusive of shorthand). Students who follow this curriculum must have a secondary teaching area, and complete the requirements of the General Secondary Education Program as listed on pages 29-30. This major also requires Economics 201 and 402, and 10 hours of mathematics. However, these courses may be counted toward meeting the University Basic Education requirements.

Required Courses..........................61 hours
Accounting 211, 212—Introduction to Accounting
Accounting 221—Accounting Methods
Business Organization 301—Secretarial Work
Business Organization 500—Principles of Management
Business Organization 510—Legal Environment of Business
Business Organization 640—Insurance and Risk
Business Organization 650—Marketing
Business Organization 763—Retailing
Economics 442—Elementary Economic Statistics
Education 206, 207—Typewriting I and II
English 301—Informative Writing
Geography 240—Economic Geography

Required Professional Courses
Education 520—Teaching Typewriting and Office Practice
Education 522—Teaching Bookkeeping and Office Machines
Education 524—Methods of Teaching Basic Business Subjects

MINORS

Students interested in electing one of the following minors should consult with an advisor in Business Education, Room 288, Arps Hall. The completion of a non-business major teaching area is required.

Bookkeeping-Basic Business This field is valid for teaching basic business, bookkeeping, business law, economic geography, business economics, and business organization and management.
CURRICULUM FOR TEACHING AREAS

Required Courses..............................................................36 hours
Accounting 211, 212—Introduction to Accounting
Accounting 221—Accounting Methods
Business Organization 220—Personal Finance
Business Organization 510—Legal Environment of Business
Economics 201—The Economic System
Geography 240—Economic Geography

Required Professional Courses
Education 523—Teaching Bookkeeping and Office Machines or 524—Methods of Teaching Basic Business Subjects

Salesmanship-Merchandising. This field is valid for teaching merchandising, retail store, selling, salesmanship, advertising, and economic geography.

Required Courses..............................................................34 hours
Accounting 201—Outline of Accounting
Business Organization 510—Legal Environment of Business
Business Organization 650—Marketing
Business Organization 753—Retailing
Business Organization 755—Principles of Advertising
Economics 201—The Economic System
Geography 240—Economic Geography

Required Professional Course
Education 529—Methods of Teaching Distributive Education

Stenography-Typing. This field is valid for teaching shorthand, typing, business English, clerical practice, and secretarial practice.

Required Courses..............................................................38 hours
Business Organization 301—Secretarial Work
Business Organization 500—Principles of Management
Economics 201—The Economic System
English 301—Informative Writing
Education 206, 207—Typewriting I and II
Education 208, 209—Shorthand I and II
Education 210, 211, 212—Advanced Stenography I, II, and III

Required Professional Courses
Education 520—Teaching Typewriting and Office Practice
Education 521—Teaching Shorthand and Transcription

DANCE

The Area of Dance offers two comprehensive programs:

Dance Education ...... B.Sc. in Edu.
Performing Arts ...... B.F.A. (in dance)

Students who are interested in either of these programs or who wish to enroll in dance courses should consult with the Director of Dance, College of the Arts. Qualified students majoring in other areas and enrolled in other colleges may elect the sequence of dance courses with permission of the director.

Students in the Dance Education program will enroll in the College of Education and complete the curriculum listed below. For information on the performing arts major refer to Book 4.

DANCE EDUCATION

The dance education major curriculum is designed for men and women students who wish to pursue dance as an art form in preparation for teaching in secondary schools, colleges, and universities. Upon satisfactory completion of 207 credit hours, graduates are eligible to apply for the Ohio Four-Year Provisional High School certificate valid for teaching grades 7 through 12.

I. General University Requirements
   for Dance Education Majors
   1. Air Science Studies, Military or Naval Science: 6 quarters or Second-Level Academic Courses: 6-10 hours
   2. Health Education 200
   3. Physical Education 101, 102, 103 (men), or 104, 105, 106 (women)
   (Students enrolling in this curriculum should not elect Health Education 101, 300, 301)

II. General College Requirements
   (Listed on page 12)

III. University Basic Education Requirements
   (Listed on pages 18-19)

1. Humanities: 15 hours
   English 220—Introduction to Drama or 262—Introduction to Drama
   Philosophy 100—Types of Philosophy or 101—Introduction to Philosophy
   Additional requirements

2. Science: 15 hours
   Biology 100—Principles of Biology
   Science sequence

3. Social Science: 15 hours
   Psychology 100—General Psychology
   Social Science sequence (10 hours)

IV. Content Courses in Major Area............... 64 hours
   Dance 111, 112, 113—Techniques and Materials of Dance
   Dance 150—Ethnic Dance Forms
   Dance 199—University Dance Group
   Dance 214, 215, 216—Techniques and Beginning Composition
   Dance 438, 439—Dance Notation I, II
   Dance 532—Dance Composition
   Dance 533—Dance Production
   Dance 557, 558, 559—History of Dance I, II, III or Speech 671, 672, 673—History of the Theatre
   Fine Arts 111—Introduction to Art
   Health Education 621—School Health Services
   Physical Education 621—Principles of Physical Education
   Physical Education 660—Kinesiology
   Theatre 280—Acting I

V. REQUIRED PROFESSIONAL COURSES
   Dance 248—Reconstruction, Analysis, and Teaching of Folk Dance Forms
   Dance 531—Theory and Practice of Modern Dance Education 108—Introduction to the Study of Education
   Education 431—Theory and Practice in Secondary Education
CURRICULUM FOR TEACHING AREAS

Education 587.53—Supervised Student Teaching in Secondary Schools
Education 637—Philosophy of Education
Education 632—The History of Western Education
Health Education 610—The Teaching of Health
Physical Education 689—Directed Teaching Experience in Physical Education
Physical Education 420.09—The Teaching of Swimming or 647—Physical Education for Secondary School Youth or 648—Physical Education for Senior High School Youth
Psychology 230—Introduction to Educational Psychology

University Dance Group is a performing concert group open to men and women students. Concerts, workshops, and lecture demonstrations are presented annually and national concert tours are arranged every two or three years. Qualifications for membership include a high degree of skill in modern and ballet techniques and experience in production and composition. Auditions are held early in the Autumn and Spring Quarters.

DENTAL HYGIENE EDUCATION

Dental hygienists are now being employed to serve on the health staffs in many of the better-organized school systems. The work of the dental hygienist includes dental and oral examination of pupils, prophylactic care of the teeth, and instruction concerning the principles of dental health. The Dental Hygiene-Education Curriculum, offered jointly by the College of Education and the College of Dentistry, provides young women with technical preparation in dental hygiene combined with professional understanding of work in the schools. It leads to the degree Bachelor of Science in Education.

The State Department of Education has approved the curriculum in dental hygiene and will grant dental hygiene graduates special certificates entitling them to be employed in public schools.

ADMISSION AND REGISTRATION

During the first and fourth years, the student is registered only in the College of Education; during the second and third years, she is registered jointly in the College of Education and the College of Dentistry. Transfer, effective at the beginning of the second year, is made early in the third quarter of the freshman year. Application is filed for admission to the curriculum in dental hygiene and for transfer to joint registration in the two colleges at the Admissions Office. Selections are made by the Director of Admissions and a committee of the College of Dentistry on the basis of professional qualifications, as evidenced by course work, the results of the dental hygiene aptitude tests, and personal qualification. An applicant must have a personal interview with the director of Dental Hygiene. For further specific information concerning the dental hygiene program inquiries should be made of the Division of Dental Hygiene, Dentistry Building.

An Aptitude Test for prospective Dental Hygiene students is given by the American Dental Hygienists' Association in cooperation with the Council on Dental Education of the American Dental Association. All applicants for admission into the curriculum of Dental Hygiene are required to take this test, the results of which are considered in conjunction with their other qualifications.

This test may be taken at any of the 46 Dental Hygiene Schools and 20 other testing centers throughout the United States at the specified times during the year preceding the date on which the applicant expects to enter the College of Dentistry. A fee of $9 is assessed for the test.

A pamphlet of more detailed instructions and information about the Dental Hygiene Aptitude Test, and an application blank for taking the test will be mailed upon request to the Director of Admissions, The Ohio State University, Columbus, Ohio 43210.

Correspondence relating to admission should be sent to the Admissions Office, The Ohio State University, Columbus, Ohio 43210.

REQUIREMENTS OF THE OHIO STATE DENTAL BOARD

In order to practice dental hygiene in the state of Ohio, the graduate of dental hygiene must pass the practical and theoretical examinations given by the Ohio State Dental Board. The time, place, and manner of applying for this examination will be announced to the student during her last quarter in the division of Dental Hygiene. There is a National Dental Hygiene Board examination which is recognized in many states. Students who successfully pass this examination are not required to take the written part of the Ohio State Dental Board examination.

I. General University Requirements for Dental-Hygiene Majors

1. Health Education 200
2. Physical Education 104, 105, 106
3. Second Level Academic Courses: 6-10 hours

II. General College Requirements

(Listed on page 12)

III. University Basic Education Requirements

(Listed on pages 18-19)

1. Humanities: 15 hours
   A course in English from Group B
   Additional courses from the Humanities: 10 hours
IV. Content Courses in Major Area

A four-year provisional vocational teacher’s certificate will be issued by the State Department of Education to each person who completes the requirements of the Distributive Education curriculum at this University.

Students interested in teaching positions in this field should consult the Director of Distributive Education, Room 288, Arps Hall. The student should then register in the College of Education.

I. General University Requirements (Listed on page 19)

II. General College Requirements (Listed on page 12)

III. University Basic Education Requirements (Listed on pages 18-19)

1. Humanities: 16 hours
   - Fine Arts 190—Introduction to Fine Art Activities or 290—Fundamentals of Art
   - Additional Humanities Requirement: 10 hours

2. Science: 15 hours

3. Social Science: 15 hours
   - Psychology 100—General Psychology

Education 289.01—School Related Experience or 289.02—Experience in Community Agencies

IV. Content Courses in Major Area

V. Required Professional Courses

Ohio. A partial amount of the work experience may be secured during the junior or senior years by enrolling in Education 608.

DISTRIBUTIVE EDUCATION

This curriculum provides a minimum preparation in technical and professional subjects for a teacher-coordinator and distributive education in secondary schools. The State Department of Education requires certain work experience in a distributive occupation which must be met prior to employment and certification in
ENGLISH EDUCATION

Students who wish to teach in the area of English may choose either of the following:

Comprehensive English major
General Secondary English major

The complete curriculum requirements of the comprehensive major are listed below, and no minor area is required. If the student pursues the general secondary English major, he selects a second teaching area to go with the 43 hours of required courses listed below, and also completes the requirements for the General Secondary program listed on pages 29-30.

COMPREHENSIVE ENGLISH MAJOR

The comprehensive English major requires the completion of 81 hours of content courses and provides for depth of study in English and American literature, world literature, and linguistics; in addition, there is course work in the psychology of reading, the oral interpretation of literature, and literature for adolescents. The program provides a broad and varied training for potential leaders in the teaching of English in the secondary schools.

I. General University Requirements
   (Listed on page 10)

II. General College Requirements
   (Listed on page 12)

III. University Basic Education Requirements
   (Listed on pages 18-19)

1. Humanities: This requirement is satisfied by courses taken in the major.
2. Science: 15 hours
3. Social Science: 15 hours
   Psychology 100—General Psychology
   Social Science sequence

IV. Content Courses in Major Area...
    81 hours

Section A. Language and Composition
Education 612—Linguistic Materials for High School Teachers
English 265—Narrative Writing, or 301—Informative Writing, or 562—Critical Writing, or 566—The Writing Laboratory
Speech 221—Fundamentals of Oral Interpretation

Select 15 hours from the following:
   Education 693.25—Individual Study in the Teaching of English
   English 520—Masterpieces of American Literature
   English 522—Russian Literature in Translation: from Pushkin to Turgenev
   Russian 421—Russian Literature in Translation: from Dostoevsky to Blok

V. Required Professional Courses

Education 435—Theory and Practice in Secondary Education
Education 560—Teaching Literature in Secondary Schools
Education 561—Teaching Grammar and Composition in Secondary Schools
Education 587.25—Student Teaching in Secondary English
Education 632—The History of Western Education or 636—Historical Foundations of American Education
Education 637—Philosophy of Education
Psychology 230—Introduction to Educational Psychology
Psychology 651—Psychology of Reading

General Secondary English Major

Required Courses...

English 290—Masterpieces of American Literature
English 293—Masterpieces of English Literature
English 294—Masterpieces of English Literature
English 307—English Usage

Select one course from the following:
   Education 612—Linguistic Materials for High School Teachers
   Education 613—Literature for Adolescents

Select one course from the following:
   English 520—Introduction to Shakespeare
   English 522—Shakespeare

Select one course from the following:
   English 525—Narrative Writing
   English 301—Informative Writing
   English 502—Critical Writing
   English 565—The Writing Laboratory

Select one course from the following:
   English 551—The American Renaissance in Literature
   English 552—American Literature
   English 553—Twentieth Century American Writers

Select one course from the following:
   English 522—Early Seventeenth Century Literature
   English 536—Literature of the Eighteenth Century

   Select 5 hours from the following:
   English 260—Introduction to Poetry
   English 264—Introduction to Fiction
   English 265—Introduction to Drama

   Select 10 hours from the following:
   English 290—Masterpieces of American Literature
   English 551—The American Renaissance in Literature
   English 552—American Literature, 1865-1914
   English 553—Twentieth Century American Writers
English 540—Romantic Poetry  
English 541—Victorian Poetry  
English 621—The English Renaissance  
English 641—The Nineteenth Century English Novel  
English 642—Nineteenth Century Prose  
English 649—Modern Drama  
English 672—History of the English Language

Required Professional Courses  
Education 560—Teaching Literature in Secondary Schools  
Education 561—Teaching Grammar and Composition in Secondary Schools

AREA OF EXCEPTIONAL CHILDREN

The Area of Exceptional Children utilizes the resources of the Department of Psychology, the College of Education, and other related departments of the University. The faculty members in this area are responsible for coordinating research and service projects and for the development of educational programs for teachers and other specialists working with exceptional children.

Opportunities for professional training in the field of exceptional children are available to qualified graduate and undergraduate students interested in the problems of identification, diagnosis, treatment, counseling, education, placement, and follow-up of exceptional children.

The following teaching programs are offered in the Area of Exceptional Children:

Undergraduate: Speech and Hearing Therapy

Undergraduate and Graduate: Blind and Partially Seeing; Mentally Retarded
Graduate: Deaf and Hard of Hearing; Educationally Disabled; Emotionally Disturbed

Students who are interested in one of these programs should contact the appropriate adviser as soon as possible for initial program planning.

The Child Study Center, maintained by the Area of Exceptional Children, offers diagnostic and remedial service for exceptional children and children with special learning problems. Consultative services are also available to parents, teachers, and the community. The Child Study Center is housed in Page Hall, Room 1.

SPEECH AND HEARING THERAPY

This curriculum is designed to meet the needs of students who wish to become speech and hearing therapists. It leads to the Bachelor of Science in Education degree, and graduates are eligible for the Ohio Four-Year Provisional Special certificate valid for teaching grades 1 through 12.

Both individual and small group instruction are responsibilities of the therapist; and ability to deal with speech and/or hearing as a major or minor problem, or one aspect of multiple handicaps is essential. The therapist has to work with people of all ages and especially with those whose speech and hearing problems are related to personality disturbance or social maladjustment; hence the curriculum provides a strong background in psychology, a competent background in child growth and development, and emphasizes the importance of correlating all therapy with the school or educational program.

It is recommended that students take an additional Summer Quarter in order to secure a broader background in fields such as English, music, art, history, philosophy, etc., and to add extra hours of practical experience in working with children or adolescents.

Students who wish to enroll in this program must possess the personal qualifications important to their professional success and a pre-admission conference is required. At this time the individual needs, interests, and questions of the prospective therapist are discussed. For additional information contact the adviser in the Area of Exceptional Children, Arps Hall.

I. General University Requirements  
(Listed on page 19)

II. General College Requirements  
(Listed on page 12)

III. University Basic Education Requirements  
(Listed on pages 18-19)

1. Humanities: 15 hours
2. Social Science: 15 hours
   Biology 100—Principles of Biology
   Psychology 100—General Psychology
   Social Science sequence

IV. Content Courses in Major Area............. 70 hours

Psychology 550—Psychology of Childhood
Psychology 551—Adolescence
Psychology 570—Exceptional Children: General Survey
Psychology 640—Mental Hygiene for Professional Workers
Psychology 651—Psychology of Reading
Psychology 681—Educational Disability
Psychology 683—Psycho-Educational Diagnostic Teaching
Speech 135—Voice and Diction
Speech 240—Bases of Oral Communication
Speech 245—Principles of Phonetics
Required Courses .......................................................30-42 hours

TEACHING OF BLIND AND PARTIALLY SEEING

MINORS

Students interested in teaching either the blind and partially seeing or the mentally retarded should plan their programs as early as possible with the adviser in the Area of Exceptional Children. It is important that the first course of the beginning sequence of courses be scheduled at the beginning of the junior year.

For specialization of the elementary level refer to page 28 for the additional program requirements. For teaching on the secondary level see the complete curriculum requirements listed under the General Secondary program, pages 29-30.

FOREIGN LANGUAGE EDUCATION

The Area of Foreign Language Education offers secondary teaching majors and minors in French, German, Latin, Russian, and Spanish.

The required content courses on these fields are listed below, and the complete degree requirements are outlined under the General Secondary Program, pages 29-30.

Students interested in this area should work closely with the area adviser in planning their programs.

FRENCH (Major)

Required Courses ....................................................47-49 hours

French 101, 102—Intermediate French
French 105—Elementary French Conversation and Composition
French 401—Review Grammar and Composition
French 402 or 403—Intermediate French Conversation and Composition
French 404—French Pronunciation
French 421—Introduction to Modern French Literature
French 401—Modern French Syntax
French 402—French Translating
French Literature: 5 hours

Select one course from the following:

French 441—La civilisation francaise des origines a nos jours
French 641—La civilisation francaise contemporaine

Required Professional Courses

Education 540—Teaching of Modern Foreign Language I
Education 541—Teaching of Modern Foreign Language II

FRENCH (Minor)

Required Courses ....................................................38 hours

French 103, 104, 105—Intermediate French
French 401—Review Grammar and Composition
French 402 or 403—Intermediate French Conversation and Composition
French 404—French Pronunciation
French 421—Introduction to Modern French Literature
French 401—Modern French Syntax

Required Professional Courses

Education 540—Teaching of Modern Foreign Language I
Education 541—Teaching of Modern Foreign Language II
GERMAN (Major)

Required Courses ..............................................................45-hours

- German 103, 104—Intermediate German
- German 109—Elementary German Conversation
- German 203—Intermediate German Conversation
- German 204—German Composition
- German 606—Introduction to the Historical Study of German

Select one course from the following:

- German 301—German Civilization I
- German 302—German Civilization II

Select two of the following courses:

- German 225—Introduction to German Literature
- German 226—Introduction to German Literature
- German 227—Introduction to German Literature

Required Professional Courses

Education 540—Teaching of Modern Foreign Language I
Education 616—Teaching of Modern Foreign Language II

GERMAN (Minor)

Required Courses ..............................................................35 hours

- German 103, 104—Intermediate German
- German 109—Elementary German Conversation
- German 203—Intermediate German Conversation
- German 204—German Composition
- German 630—Advanced Conversation and Composition

Select two of the following courses:

- German 225—Introduction to German Literature
- German 226—Introduction to German Literature
- German 227—Introduction to German Literature

Required Professional Courses

Education 540—Teaching of Modern Foreign Language I
Education 616—Teaching of Modern Foreign Language II

LATIN (Major)

Required Courses ..............................................................42 hours

- Latin 500—Odes and Epodes of Horace
- Latin 501—Livy's History of Rome
- Latin 502—Latin Comedy
- Latin 503—Grammatical Review
- Latin 594—305, 306—Latin Prose Composition
- Latin 512—Intermediate Prose Composition
- Latin 618—Studies in Cicero
- Latin 616—Studies in Vergil
- Latin 617—Studies in Caesar

Select one of the following:

- Latin 544—Ovid or 339—Lucretius
- Latin 612—Latin Prose Composition
- Latin 626—Introduction to Medieval Latin

Select two of the following:

- Latin 300—Roman Historians
- Latin 301—Lyric and Elegiac Poets
- Latin 302—Roman Satire

Required Professional Course

Education 618—The Teaching of Latin

Recommended Electives

Classics 221—Latin Literature in Translation
Classics 225—Classical Civilization: Rome
Classics 224—Classical Civilization: Greece
History 656—Roman History

LATIN (Minor)

Required Courses ..............................................................38 hours

I—For those with 3 units:

- Latin 103—Cicero
- Latin 104—Vergil
- Latin 201—Livy

For those with 4 units:

- Latin 103—Cicero
- Latin 104—Vergil
- Latin 201—Livy

II—Select two of the following:

- Latin 300—Roman Historians
- Latin 301—Lyric and Elegiac Poets
- Latin 303—Essays of Cicero
- Latin 344—Ovid

III—

- Latin 303—Grammatical Review
- Latin 304, 305, 306—Latin Prose Composition
- Latin 617—Studies in Caesar

Required Professional Course

Education 618—The Teaching of Latin

Recommended Electives:

Classics 225—Classical Civilization: Rome
History 656—Roman History

RUSSIAN (Major)

Required Courses ..............................................................46 hours

- Russian 101, 102—Elementary Russian
- Russian 103, 104—Intermediate Russian
- Russian 405—Russian Conversation
- Russian 406—Russian Composition
- Russian 407—Review Grammar and Composition

Select one of the following:

- Russian 475, 476, 477—Introduction to Russian Literature
- Russian Literature: 10 hours

Required Professional Course

Education 616—Teaching of Modern Foreign Language II

RUSSIAN (Minor)

Required Courses ..............................................................41 hours

- Russian 101, 102—Elementary Russian
- Russian 103, 104—Intermediate Russian
- Russian 405—Russian Conversation
- Russian 406—Russian Composition
- Russian 407—Review Grammar and Composition

Select one of the following:

- Russian 475, 476, 477—Introduction to Russian Literature
- Russian Literature: 10 hours

Required Professional Course

Education 616—Teaching of Modern Foreign Language II

SPANISH (Major)

Required Courses ..............................................................44 hours

- Spanish 103, 104—Intermediate Spanish
- Spanish 105—Elementary Spanish Conversation and Composition
- Spanish 401—Review Grammar and Composition
- Spanish 402 or 403—Intermediate Spanish Conversation and Composition
- Spanish 404—Spanish Pronunciation
- Spanish 421—Introduction to Modern Spanish Literature
- Spanish 605—Advanced Composition and Conversation
- Spanish 607—Modern Spanish Syntax
- Spanish 609—Spanish Phonetics
- Spanish Literature: 5 hours

Required Professional Courses

Education 540—Teaching of Modern Foreign Language I
Education 616—Teaching of Modern Foreign Language II

SPANISH (Minor)

Required Courses ..............................................................36 hours

- Spanish 103, 104—Intermediate Spanish
- Spanish 105—Elementary Spanish Conversation and Composition
- Spanish 401—Review Grammar and Composition
- Spanish 402 or 403—Intermediate Spanish Conversation and Composition
- Spanish 404—Spanish Pronunciation
- Spanish 421—Introduction to Modern Spanish Literature
- Spanish 607—Modern Spanish Syntax

Required Professional Courses

Education 540—Teaching of Modern Foreign Language I
Education 616—Teaching of Modern Foreign Language II

(This course is required unless the student has credit for another course in methods of teaching a modern foreign language.)
HEALTH EDUCATION

This program is offered by the Department of Physical Education and is listed on page 57.

INDUSTRIAL ARTS EDUCATION

The curriculum in Industrial Arts Education has been designed for teachers in secondary, college, and adult programs and meets the requirements of the Ohio Four-Year Provisional High School certificate validated for the teaching of industrial arts in junior and senior high schools. The area offers a comprehensive major and a general secondary major and minor.

Students desiring to pursue a program in industrial arts should consult an area adviser.

COMPREHENSIVE INDUSTRIAL ARTS MAJOR

I. General University Requirements
   (Listed on page 19)

II. General College Requirements
   (Listed on page 12)

III. University Basic Education Requirements
   (Listed on pages 18-19)

1. Humanities: 15 hours
   Fine Arts 190—Introduction to Fine Art Activities

2. Science: 15 hours
   Physics 111, 112—General Physics
   A course in Biological Science

3. Social Science: 15 hours
   Psychology 100—General Psychology
   Sociology 101—Introductory Sociology
   Sociology 202—Social Trends and Problems or Economics 201, 402—Principles of Economics

IV. Content Courses in Major Area

Education 120—The Laboratory of Industries
Education 231, 232—Elements of Woodworking
Education 233, 234—Elements of Metalworking
Education 236—Elements of Printing
Education 242—Problem Planning in Industrial Arts
Education 244—Letter Press and Offset Printing
Education 255—The Handicrafts
Education 420—Elements of Electricity in Industrial Arts
Education 424—Introduction to Power Machines
Engineering Graphics 100—Elementary Engineering Graphics

Required Professional Courses

Education 532—The Teaching of Industrial Arts I
Education 533—The Teaching of Industrial Arts II
Education 534—The Teaching of Industrial Arts III
Education 587.21—Student Teaching in Industrial Arts

Education 636—Historical Foundations of American Education
Education 637—Philosophy of Education
Health Education 301—Health Education for Secondary Teachers
Psychology 230—Introduction to Educational Psychology

GENERAL SECONDARY

Students desiring to follow either the general secondary major or minor in the Industrial Arts area will complete the required content and professional courses listed below, and refer to the General Secondary Program on pages 29-30 for the additional degree requirements.

Industrial Arts (Major)

Required Courses

Education 120—The Laboratory of Industries
Education 231, 232—Elements of Woodworking
Education 233, 234—Elements of Metalworking
Education 236—Elements of Printing
Education 242—Problem Planning in Industrial Arts
Education 244—Letter Press and Offset Printing
Engineering Graphics 100—Elementary Engineering Graphics

Required Professional Courses

Education 532—The Teaching of Industrial Arts I
Education 533—The Teaching of Industrial Arts II
Education 534—The Teaching of Industrial Arts III

Industrial Arts (Minor)

Required Courses

Education 120—The Laboratory of Industries
Education 231, 232—Elements of Woodworking
Education 233, 234—Elements of Metalworking
Education 242—Problem Planning in Industrial Arts
Engineering Graphics 100—Elementary Engineering Graphics

Select 9 hours from the following:

Education 251—Work Experience in Industry
Education 425—Internal Combustion Engines
Education 430—Residential and Industrial Utilization of Electrical Power
Education 693.21—Industrial Arts Education
Engineering Graphics 204—Technical Drawing
Engineering Graphics 206—Structural Drawing
Engineering Graphics 209—Production Illustration
Fine Arts 140—Introduction to Ceramic Art
Fine Arts 230—Construction Sculpture
Fine Arts 662—Design III. Product
Industrial Engineering 201—Foundry Practice
Photography 201—Photography
Welding Engineering 246—Forging, Heat Treating, and Welding

Industrial Arts Club is open to all students in industrial arts education. The purposes of the club are to foster social and professional relationships, develop leadership, and promote increased knowledge of industrial arts. Members receive a subscription to the "Industrial Arts Teacher" and student membership in the American Industrial Arts Association.
JOURNALISM (Minor)

The minor in journalism may be used as one of the required teaching areas by students following the General Secondary Program listed on pages 29-30, or in the Secondary Post-Degree Program, page 50.

Required Courses

Journalism 101—Introduction to Mass Communications
Journalism 201—News Writing I
Journalism 203—Photojournalism
Journalism 204—Editing
Journalism 205—Journalism Laboratory
Select a minimum of 16 hours of electives from the following:
Journalism 102—History and Ethics
Journalism 206—Law of Press, Radio, and Television
Journalism 211—Typography and Printing
Journalism 401—Broadcast News
Journalism 631—Public Relations I
Journalism 642—Press and Basic Issues

Required Professional Course
Education 614—The Supervision of Journalism in Secondary Schools

MATHEMATICS EDUCATION

Students who wish to teach mathematics elect either a major or minor in this area and complete the required content and professional courses as listed below. The complete degree requirements for the General Secondary Program are listed on Page 00.

MATHEMATICS (Major)

Required Courses

Mathematics 151—Calculus and Analytic Geometry
Mathematics 152—Calculus and Analytic Geometry
Mathematics 153—Calculus and Analytic Geometry
Mathematics 205—Application of Mathematics
Mathematics 254—Calculus and Analytic Geometry
Mathematics 504—History of Mathematics
Mathematics 505—Fundamental Ideas in Mathematics I
Mathematics 506—Fundamental Ideas in Mathematics II
Mathematics 507—Advanced Geometry I

Required Professional Courses
Education 546—Teaching Mathematics in Secondary Schools I
Education 621—Teaching Mathematics in Secondary Schools II

Recommended Course
Education 622—Field and Laboratory Work for Teachers of Mathematics

MATHEMATICS (Minor)

Required Courses

Mathematics 151—Calculus and Analytic Geometry
Mathematics 152—Calculus and Analytic Geometry
Mathematics 153—Calculus and Analytic Geometry
Mathematics 504—History of Mathematics
Mathematics 507—Advanced Geometry I

Required Professional Course
Education 546—Teaching Mathematics in Secondary Schools I

MUSIC EDUCATION

Students seeking a professional status in Music Education should check the School of Music section in Book 4, or consult an adviser in the School of Music. Students who wish to major in music education enroll in the College of Education and upon completion of the program receive the degree Bachelor of Science in Education.

The music education curriculum is offered for the preparation of teachers and supervisors of vocal, instrumental, and general classroom music. It requires completion of 197 credit hours, and graduates are eligible for the Ohio Four-Year Provisional Special certificate valid for teaching music in grades 1 through 12.

Admission to the music education program is based upon an assessment by the faculty of the School of Music of the student's potential during his freshman year. The student normally enters the program at the beginning of the sophomore year with the declaration of his major area. Junior standing in the School of Music is attained by students when they (1) have accumulated at least 102 quarter hours of credit, (2) have attained a cumulative point-hour ratio of at least 2.25 in all work undertaken at this University, and (3) have met the requirements in the major applied area.

Following entrance examinations and admission, and for all subsequent quarters, the student should consult with the appropriate adviser in the School of Music concerning his program and schedule.

I. General University Requirements
   (Listed on page 18)
II. General College Requirements
   (Listed on page 12)
III. University Basic Education Requirements
   (Listed on pages 18-19)
   1. Humanities: 15 hours (To be chosen from Groups A, B, D)
   2. Science: 15 hours
      Psychology 100—General Psychology
      Social Science Sequence
   3. Social Science: 15 hours
IV. Content Courses in Major Area

Music Theory, History and Literature: 36 hours
Music 221, 222, 223—Music Theory
Music 241, 242, 243—Music History
Music 421, 422, 423—Harmony
Music 424, 425, 426—Ear-Training
Music 521—Form and Analysis

Applied Music: 41 hours
Major Instrument (18 hours)
Music 201
Music 401
Music 501

The major instrument study will culminate in a public recital, either solo or small ensemble. Ap-
In addition to the major requirements, the student will meet the piano major or minor requirements. The choice of a major instrument in Applied Music is made at the time of application for admission in Education 586.15, Music 562 and 564 for registration for student teaching in Hughes Hall 106C and in Room 150, Arps Hall. Registration further includes filling out of student-teacher placement cards and additional forms in 150 Arps Hall. This must be done before the student's schedule will be approved for the quarter in which the student teaching is to be done.

### Special Curriculum Requirements

In addition to the major requirements, the student will take the following pertaining to this field:

- **Ensembles:** 8 hours (Not fewer than 6 hours in large ensembles).

**Major Applied:** The choice of a major instrument in applied music is made at the time of application for admission to the School of Music. The choice may be piano (Music 201.01), voice (Music 201.02), stringed instruments (Music 201.03), woodwind instruments (Music 201.04), brass (Music 201.05), organ (Music 201.06), percussion instruments (Music 201.07), harpsichord (Music 201.08), or harp (Music 201.09). NOTE: Piano majors may substitute, by permission of the piano instructor, not more than 6 credit hours of organ (Music 201.06) to meet the piano major or minor requirements.

**Graduating Recital:** A graduating recital is required of all students in this curriculum. At the conclusion of the sixth quarter of Applied Music, the examination for junior standing will be given. A student may not perform the graduating recital until this examination is satisfactory.

**Student Teaching:** All students in this curriculum will register for Education 586.14 and/or 586.15 (7 hours) and Education 587.14 and/or 587.15 (4 to 8 hours) for a total of 15 hours during one quarter (Autumn, Winter, Spring) of the senior year. Prerequisites: Music 261, 262, 263, 264 and 560; Psychology 130; Music 563 for registration in Education 586.14 and 587.15, Music 561 for registration in Education 586.15, Music 562 and 564 for registration in Education 587.15; a point-hour ratio of at least 2.25 in courses required in the major, and in professional education; an approved Field Experience. No other course work shall be scheduled during the student teaching quarter. NOTE: The required point-hour ratio above is computed upon the courses taken at this University only. Students transferring from other institutions will be required to fulfill the 2.25 point-hour ratio and pass the applied examination for junior standing before credit will be granted. At the time of registration for the last quarter of the junior year, students will file application for student teaching in Hughes Hall 106C and in Room 150, Arps Hall. Registration further includes filling out of student-teacher placement cards and additional forms in 150 Arps Hall. This must be done before the student's schedule will be approved for the quarter in which the student teaching is to be done. Students are required to select their electives for either the major or the minor in consultation with one of the area advisers:
PUBLIC RECREATION
This program is offered by the Department of Physical Education and is listed on page 60.

RADIO-TELEVISION-SPEECH EDUCATION
The comprehensive major in radio-television-speech education is designed to prepare students with special interests and abilities for broadcasting responsibilities in elementary and secondary schools, and for the teaching of speech in secondary schools. Certification by the State Department of Education makes the double major essential since students must be equipped to teach general speech education in junior and senior high schools as well as to prepare and supervise radio workshops and elementary and secondary school broadcasting programs. An additional minor teaching area is highly recommended.

I. General University Requirements
(Listed on page 19)

II. General College Requirements
(Listed on page 12)

III. University Basic Education Requirements
(Listed on pages 18-19)
1. Humanities: 15 hours
2. Science: 15 hours
3. Social Science: 15 hours
   Psychology 100—General Psychology
   Social Science sequence

IV. Content Courses in Major Area (81-87 hours)
   Education 677—Radio and Television in Education
   Education 693.43—Individual Studies in Education
   Broadcasting
   Speech 200—Communications Activities (Forensic, 1 hr.; oral interp., 1 hr.; or Radio TV, 1 hr.)
   Speech 213—Rhetoric in Western Thought
   Speech 221—Oral Interpretation
   Speech 229—Television and Radio Performance
   Speech 240—Basics of Oral Communication
   Speech 305—Argumentation and Debate
   Speech 410—Program Processes in Radio
   Speech 510—Program Processes in Television
   Speech 515—Organizational Communication and/or
   Speech 520—Communication and Social Behavior
   Speech 525—Broadcasting and Written Message
   Speech 550—Intro-Speech Pathology
   Speech 626—Broadcast Audience Analysis
   Speech 715—Broadcasting and the Public Interest
   Speech 725—Creative Television Production and Direction
   Theater 265—Theatre Activities
   Theater 270—Stagecrafts and Lighting
   Theater 280—Acting Fundamentals
   Theater 285—Great Ages of Theatre
   Theater 565—Children's Theatre—Production and Direction

V. Required Professional Courses
   Education 289.09—Field Service Projects in Education
   Education 436—Theory and Practice in Secondary Education
   Education 461*—Elementary Education: Conceptions of Teaching
   Education 477*—Introduction to Children's Literature
   Education 566—The Teaching of Speech in Secondary Schools
   Education 587.09—Student Teaching in Secondary Schools
   Education 588.09—Supervised Practice in Radio-Speech Education
   Education 621—Teaching Dramatics and Oral Interpretation in Secondary Schools
   Education 637—Philosophy of Education
   Health Education 301—Health Education for Secondary Teachers
   Psychology 230—Introduction to Educational Psychology
* Prerequisites waived.

SCIENCE EDUCATION
The area of science education offers comprehensive majors in biological science, earth science, and comprehensive science education (general); secondary majors and minors in chemistry, chemistry-physics, and physics; and a minor in general science.

Students completing one of these areas are eligible for the Ohio Four-Year Provisional High School certificate, valid for teaching in their field of specialization and/or general science in grades 7 through 12.

Students majoring in science are urged to work closely with the advisers in their areas of specialization.

COMPREHENSIVE MAJORS
The three comprehensive science majors—biological science, earth science, and comprehensive science education require completion of Sections I, II, and III as listed below. Section IV of each major consists of basic courses in the biological and physical sciences which constitute a foundation for further content courses in the field of specialization, and Section V lists the professional education courses required in each area. The degree Bachelor of Science in Education requires completion of 196 credit hours.

I. General University Requirements
(Listed on page 19)

II. General College Requirements
(Listed on page 12)

Mathematics 150—Algebra and Trigonometry

III. University Basic Education Requirements
(Listed on pages 18-19)
1. Humanities: 15 hours
2. Science: This requirement is satisfied by courses taken in the major.
3. Social Science: 15 hours
   Psychology 100—General Psychology
   Social Science—10 hour sequence
Biological Science Education

The comprehensive biological science teaching major requires completion of 92 quarter hours of content courses, and provides for depth of study in biology and supporting study in chemistry and physics.

I, II, and III

IV. Content Courses in Major Area ................. 92 hours

The courses in the comprehensive biological science major are divided into sections A and B as shown below. Electives and any modification of this program must be approved by one of the area advisers.

Section A. Biological Science Courses

- Biology 100—Principles of Biology
- Biology 410—Introduction to Ecology
- Biology 420—Evolution
- Biology 630—Genetics
- Botany 102—General Botany
- Microbiology 605—Basic Microbiology for Science Teachers (or an option approved by an adviser)
- Zoology 101—General Zoology

Select a minimum of one of the following four courses:

- Botany 410—Local Flora
- Entomology 200—General Entomology
- Zoology 211—Invertebrate Zoology
- Zoology 220—Ornithology

Electives supporting the major: 10 hours

Section B. Related Science Courses

Group 1. Chemistry

- Biochemistry 511, 521—Introduction to Biological Chemistry
- Chemistry 121, 122, 123—General Chemistry
- Chemistry 231, 232—Organic Chemistry

Group 2. Physics

- Physics 111, 112—General Physics

V. Required Professional Courses

Education 435—Theory and Practice in Secondary Education
Education 551—Science in Secondary Schools
Education 587.27—Student Teaching in Secondary Schools
Education 625—Practicum in Biological Science for Teachers
Education 682—The History of Western Education
Education 687—Philosophy of Education
Health Education 301—Health Education for Secondary Teachers
Psychology 280—Introduction to Educational Psychology

Comprehensive Science Education (General)

The comprehensive science major requires completion of 80 credit hours, and provides for a depth of study in at least one field of science, and a broad preparation in several fields. This major is intended for students planning to teach general science in the junior high school.

I, II, and III

IV. Content Courses in Major Area ................. 80 hours

The courses to be studied are divided into groups A and B, as shown below, and all mathematics courses listed as prerequisites of required courses must be completed.

GROUP A .................................................. 60 hours

- Biological Science, Chemistry, and Physics

Distributed as follows: 45 hours of required courses with 15 additional hours in the chosen area of concentration from courses listed below.

Required Courses:

- Biology 100—Principles of Biology
- Botany 102—General Botany
- Chemistry 121, 122, 123—General Chemistry
- Physics 111, 112, 113—General Physics
- Zoology 101—General Zoology

Select a minimum of 15 hours from I, II, or III.

I. Biological Science ........................................... 15 hours

- Biology 410—Introduction to Ecology
- Biology 420—Evolution
- Botany 410—Local Flora
- Botany 500—Basic Concepts in Botany
- Entomology 200—General Entomology
- Microbiology 609—Microbiology in Relation to Man or 605—Basic Microbiology for Science Teachers
- Zoology 220—Ornithology

* Botany 410 and Zoology 220 should not be taken concurrently because of Saturday field trips.

II. Chemistry .................................................. 15 hours

- Chemistry 211, 212, 213—Quantitative Analysis
- Chemistry 231, 232—Organic Chemistry
- Chemistry 241, 242—Organic Chemistry
- Chemistry 243, 244—Organic Chemistry Laboratory
- Chemistry 521—Physical Chemistry

III. Physics ...................................................... 15 hours

- Physics 120—Descriptive Meteorology
- Physics 501—Descriptive Acoustics
- Physics 521—Intermediate Physical Mechanics
- Physics 531—Intermediate Electricity and Magnetism
- Physics 535—Geometrical Optics
- Physics 541—Intermediate Heat
- Physics 551—Introduction to Modern Physics
- Physics 568—Advanced Physical Laboratory

GROUP B .................................................. 20 hours

Related science courses to be chosen from the following:

- Arts Survey 608—Development of Modern Science
- Astronomy 150—Descriptive Astronomy
- Conservation 201—Introduction to Conservation of Natural Resources
- Conservation 292—Conservation Agencies
- Geography 530—Conservation of Natural Resources
- Geography 100—Introduction to Geology
- Geology 101—Physical Geology
- Geology 102—Historical Geology
- Photography 594—Scientific Photography
- Psychology 120—Descriptive Meteorology

V. Required Professional Courses

Education 435—Theory and Practice in Secondary Education
Education 551—Science in Secondary Schools
Education 587.27—Student Teaching in Secondary Schools
Education 627—Practicum in General and Physical Sciences for Teachers
Education 682—The History of Western Education or 687—Historical Foundations of American Education
Education 687—Philosophy of Education
Health Education 301—Health Education for Secondary Teachers
Psychology 280—Introduction to Educational Psychology
Earth Science Education

The comprehensive earth science teaching major requires completion of 85-87 quarter hours of content courses, and provides for depth of study in geology, supporting study in astronomy, meteorology and geography, and broad preparation in the sciences.

I, II, and III

IV. Content Courses in Major Area..............85-87 hours

The courses in the comprehensive earth science major are divided into sections A and B as shown below. Electives and any modifications of this program must be approved by one of the area advisers, Room 248, Arps Hall.

Section A. Earth Science Courses:
- Astronomy 150—Descriptive Astronomy
- Geography 520—Climatology
- Geology 100—Introduction to Geology*
- Geology 101—Physical Geology
- Geology 102—Historical Geology
- Geology 201—Invertebrate Paleontology
- Geology 202—Common Minerals and Rocks
- Geology 550—Geomorphology
- Geology 580—Fieldwork in Earth Science
- Physics 120—Descriptive Meteorology or 503—General Meteorology

Electives supporting the major: 10 hours

Section B. Related Science Courses

Select a minimum of 10 hours from each of the following three groups:

Group 1. Biological Science
- Biology 100—Principles of Biology
- Biology 410—Introduction to Ecology
- Botany 102—General Botany
- Botany 500—Basic Concepts in Botany
- Zoology 101—General Zoology

Group 2. Chemistry
- Chemistry 121, 122, 123—General Chemistry
- Select a 10 or 12 hour sequence from the following:
  - Chemistry 231, 232—Organic Chemistry
  - Chemistry 241, 242—Organic Chemistry
  - Chemistry 243, 244—Organic Chemistry Laboratory

Group 3. Physics
- Physics 111, 112, 113—General Physics

* Students who have had geology or earth science in high school are encouraged to take a proficiency examination for Geology 100. If successful, the student will then be able to add a 5-hour elective course supporting the earth-science major.

V. Required Professional Courses

Education 435—Theory and Practice in Secondary Schools
Education 551—Science in Secondary Schools
Education 627—Practicum in General and Physical Sciences for Teachers

SECONDARY SCIENCE AREAS

Secondary majors or minors in science are offered in chemistry, chemistry-physics, general science, and physics. The required content and professional courses are given below, and the complete General Secondary Program with its requirements is outlined on page 00.

Chemistry (Major)

Required Courses ......................................................37-39 hours
- Chemistry 121, 122, 123—General Chemistry
- Select a 10 or 12 hour sequence from the following:
  - Chemistry 231, 232—Organic Chemistry
  - Chemistry 241, 242—Organic Chemistry
  - Chemistry 243, 244—Organic Chemistry Laboratory
- Select a minimum of 15 hours from the following:
  - Chemistry 211, 212—Quantitative Analysis
  - Chemistry 521—Physical Chemistry
  - Chemistry 531, 532, 533—Physical Chemistry
  - Chemistry 551, 552—Physical Chemistry Laboratory

Required Professional Courses
- Education 551—Science in Secondary Schools
- Education 627—Practicum in General and Physical Sciences for Teachers

Chemistry (Minor)

Required Courses ......................................................30 hours
- Chemistry 121, 122, 123—General Chemistry
- Select a minimum of 15 hours from any of the following:
  - Chemistry 231, 232—Organic Chemistry
  - Chemistry 241, 242—Organic Chemistry
  - Chemistry 243, 244—Organic Chemistry Laboratory

Required Professional Course
- Education 551—Science in Secondary Schools

Chemistry-Physics (Major)

Required Courses ......................................................49 hours
- Chemistry 121, 122, 123—General Chemistry
- Physics 231, 232, 233—General Physics
- Select a minimum of 10 hours from any of the following:
  - Chemistry 211, 212—Quantitative Analysis
  - Chemistry 231, 232—Organic Chemistry
  - Chemistry 241, 242—Organic Chemistry
  - Chemistry 243, 244—Organic Chemistry Laboratory

Required Professional Courses
- Education 551—Science in Secondary Schools
- Education 627—Practicum in General and Physical Sciences for Teachers

Chemistry-Physics (Minor)

Required Courses ......................................................35 hours
- Chemistry 121, 122—General Chemistry
- Physics 231, 232—General Physics

* These courses may also be elected:
- Education 625—Practicum in Biological Science for Teachers
- Education 627—Practicum in General and Physical Science for Teachers
A minimum of 15 hours must be selected from the following:

Chemistry 128—General Chemistry
Chemistry 211, 212—Quantitative Analysis
Chemistry 231—Organic Chemistry
Physics 233—General Physics
Physics 120—Descriptive Meteorology
Physics 521—Intermediate Physical Mechanics
Physics 535—Geometrical Optics
Physics 541—Intermediate Heat

Required Professional Course
Education 551—Science in Secondary Schools

General Science (Minor)
The following courses constitute a minimum program for a general science minor. Variations from this program are possible, but only with approval of the area advisers, Room 248 Arps Hall.

Required Courses
- Biology 100—Principles of Biology
- Botany 102—General Botany
- Chemistry 121, 122—General Chemistry
- Chemistry 123—General Chemistry
- Physics 111, 112—General Physics
- Zoology 101—General Zoology

Select a minimum of 5 hours from the following:
- Astronomy 150—Descriptive Astronomy
- Conservation 201—Introduction to Conservation of Natural Resources
- Conservation 202—Conservation Agencies
- Geography 580—Conservation of Natural Resources
- Geology 100—Introduction to Geology
- Physics 120—Descriptive Meteorology

For greater concentration above the 40 hours required, a student may select courses from the following:
- Chemistry 128—General Chemistry
- Photography 594—Scientific Photography
- Physics 113—General Physics

Required Professional Course
Education 551—Science in Secondary Schools

Physics (Major)
To complete a physics major it is essential that prerequisite mathematics courses be taken as early as possible. Most 600 level physics courses require Mathematics 254.

Required Courses
- Astronomy 150—Descriptive Astronomy
- Conservation 201—Introduction to Conservation of Natural Resources
- Conservation 202—Conservation Agencies
- Geography 580—Conservation of Natural Resources
- Geology 100—Introduction to Geology
- Physics 120—Descriptive Meteorology

Select a minimum of 15 hours from the following:
- Physics 120—Descriptive Meteorology
- Physics 501—Descriptive Acoustics
- Physics 583—Intermediate Electricity and Magnetism
- Physics 585—Geometrical Optics
- Physics 541—Intermediate Heat
- Physics 551—Introduction to Modern Physics
- Physics 571—Introduction to Nuclear Physics
- Physics 616—Advanced Physical Laboratory
- Physics 638—Introductory Physical Optics
- Physics 661—Electron Physics

Required Professional Courses
Education 651—Science in Secondary Schools
Education 627—Practicum in General and Physical Sciences for Teachers

Physics (Minor)
Required Courses
- Physics 231, 232, 233—General Physics
- Physics 521—Intermediate Physical Mechanics

Select a minimum of 12 hours from the following:
- Astronomy 150—Descriptive Astronomy
- Physics 120—Descriptive Meteorology
- Physics 535—Geometrical Optics
- Physics 541—Intermediate Heat
- Physics 551—Introduction to Modern Physics
- Physics 616—Advanced Physical Laboratory

Required Professional Course
Education 551—Science in Secondary Schools

SOCIAL STUDIES EDUCATION
The area of the Social Sciences offers a comprehensive major which includes work in all the social sciences, but with special emphasis on history and one additional social science chosen in consultation with the area advisor.

Students who complete this program are eligible for the Ohio Four-Year High School certificate valid for the teaching of any social science taught in grades 7-12 in the public schools.

I. General University Requirements
(Listed on page 19)

II. General College Requirements
(Listed on page 12)

III. University Basic Education Requirements
(Listed on pages 18-19)
1. Humanities: 15 hours
2. Science: 15 hours
3. Social Science: 15 hours
   - Psychology 100—General Psychology
   - Psychology 101—Practicum in Psychological Research
   - Psychology 200—Introduction to Psychology
   - Sociology 200—Government of the United States
   - Sociology 201—Fundamentals of Sociology
   - Anthropology 201—Introduction to Anthropology

Group A. Basic Courses in the Social Sciences
- History 121, 122, 123—The Western World in Modern Times
- History—Advanced Electives

Group B. History
- History 121, 122, 123
- History—Advanced Electives

Group C. Additional Work in One Social Science Area
- Economics 402—Introduction to Economic Theory
- Geography 240—Economic Geography
- Political Science 265—Fundamentals of Government
- Political Science 266—Government of the United States

IV. Content Courses in Major Area

V. Required Professional Courses
Education 435—The Economic System
Education 462—Introduction to Economic Theory
Education 507—Government of the United States
Education 527—Teaching of Social Studies
Education 547—Teaching of Social Studies
Education 557—History of Western Education
Education 637—Philosophy of Education
Psychology 230—Introduction to Educational Psychology
Psychology 431—Adolescence

Courses must be in upper division. Not to include history.
SPEECH EDUCATION

The area of speech education offers a general secondary major and minor in speech. The required content and professional courses are listed below with pertinent information relating to each. The complete list of requirements leading to a degree are given in the General Secondary Program, pages 29-30.

SPEECH (Major)

State certification requires a broad general speech program including speech fundamentals and four of the five following areas: interpretation, speech correction and voice science, theatre, public address, radio and television.

These may be augmented whenever the student's program will permit, as follows:

1. When the second teaching field is English, additional courses in dramatic literature and interpretation will be found helpful.
2. When the second teaching field is history, additional courses in public speaking and debate are recommended.
3. When the second field is psychology, additional courses in speech education are advisable.

Students expecting recommendations to teach speech should have been active in campus productions, judging and competing in contests for not less than three quarters of their college program. Credit or non-credit activity is satisfactory.

Provision for student teaching (Education 587.09) should be made for Autumn or Winter Quarter of the senior year.

Required Courses........................................50 hours
Speech 205 — Communications Co-curricular Activities
(Forensic, 1 hr.; oral interp., 1 hr.; or Radio-TV, 1 hr.)
Speech 209 — Communication Theories and Models
Speech 213 — Rhetoric in Western Thought
Speech 221 — Fundamentals of Oral Interpretation
Speech 229 — Television and Radio Performance
Speech 240 — Bases of Oral Communication
Speech 305 — Argumentation and Debate
Theater 270 — Stage Crafts
Theater 285 — Great Ages of the Theatre
Theater 565 — Children's Theatre: Production and Direction

Required Professional Courses
Education 556 — The Teaching of Speech in Secondary Schools
Speech 515 — Organizational Communication
or
520 — Communication and Social Behavior
Speech 550 — Introduction to Speech Pathology

SPEECH (Minor)

Students who wish to offer speech as a minor teaching area must first secure the written approval of the speech adviser of the College indicating that they possess adequate speaking voice and satisfactory speech habits.

Required Courses.................................35 hours
Speech 205 — Communications Co-curricular Activities
(Forensic or Radio TV)
Speech 209 — Communication Theories and Models
Speech 213 — Rhetoric in Western Thought
Speech 221 — Fundamentals of Oral Interpretation
Speech 240 — Bases of Oral Communication
Speech 305 — Argumentation and Debate
Theater 270 — Stage Crafts
Theater 565 — Children's Theatre: Production and Direction

TRADE AND INDUSTRIAL EDUCATION

This curriculum is designed for the preparation of shop and related technical teachers in secondary and post high school programs in trade, industrial, and technical education. The major consists of 48 quarter credit hours secured through credit for shop experience (not more than 30 quarter credit hours), courses in engineering graphics, industrial engineering, photography, fine and occupational arts, or such other special courses as may be pertinent to the teaching area.

Students pursuing the curriculum in trade and industrial education must secure the approval of the trade and industrial education adviser upon each quarter's schedule before presenting the schedule cards at the College office.

Required Courses.................................50 hours
Speech 205 — Communications Co-curricular Activities
(Forensic, 1 hr.; oral interp., 1 hr.; or Radio-TV, 1 hr.)
Speech 209 — Communication Theories and Models
Speech 213 — Rhetoric in Western Thought
Speech 221 — Fundamentals of Oral Interpretation
Speech 229 — Television and Radio Performance
Speech 240 — Bases of Oral Communication
Speech 305 — Argumentation and Debate
Speech 515 — Organizational Communication
or
520 — Communication and Social Behavior
Speech 550 — Introduction to Speech Pathology
Theater 270 — Stage Crafts
Theater 565 — Children's Theatre: Production and Direction

Required Professional Courses
Education 585 — The Teaching of Speech in Secondary Schools

I. General University Requirements
(Listed on page 19)

II. General College Requirements
(Listed on page 12)

III. University Basic Education Requirements
(Listed on pages 18-19)
1. Humanities: 15 hours
2. Science 15 hours
3. Social Science: 15 hours

Economics or Sociology sequence

IV. Content Courses in Major Area ........33-36 hours
Education 576 — Vocational Trade and Industrial and Technical Teaching
Education 106 — Principles of Effective Speaking
Speech 110 — Group Discussion

Electives secured through credit for shop experience in engineering graphics, industrial engineering, photography, fine and occupational arts, or such other special courses as may be pertinent to the teaching area: 20 hours.
V. Required Professional Courses
Education 435—Theory and Practice in Secondary Education
Education 587.22—Student Teaching in Secondary Schools
Education 652—The History of Western Education
Education 637—Philosophy of Education
Education 649—Vocational Trade, Industrial and Technical Education for Out-of-School Youth and Adults
Health Education 301—Health Education for Secondary Teachers
Psychology 230—Introduction to Educational Psychology

SECONDARY POST-DEGREE PROGRAMS FOR GRADUATES OF LIBERAL ARTS COLLEGES

COMBINED CURRICULA

This program leading to the degree Bachelor of Science in Education is available to graduates of liberal arts colleges and is especially adapted to the background and professional needs of this group. A graduate who has completed a major in an academic field corresponding to a certifiable high-school teaching field, may ordinarily complete this program in three quarters of full-time work in the College of Education. Upon attaining the degree in Education he will be eligible for the Ohio Four-Year Provisional High School teacher's certificate.

Graduate credit is not given for courses taken under this program. Only those graduates who (a) have cumulative point-hour ratios of 2.25 or above in all college work undertaken at The Ohio State University and elsewhere, and (b) satisfy all other requirements for admission to the Education Professional Division as described on page 12 will be admitted.

The requirements of the three-quarter program insofar as they vary from the requirements of general secondary curriculum are stated in the following sections:

1. Three quarters of full-time residence in the College of Education with a minimum total of 45 quarter hours of credit.

2. Required professional courses:
   Education 435—Theory and Practice in Secondary Education
   Education 587—Student Teaching in Secondary Schools
   Education 632—History of Western Education or 637—Philosophy of Education
   Psychology 560—Educational Psychology
   Required methods courses for all major and minor areas.

3. One major and one minor teaching field: In some cases, additional subject matter courses may be needed to round out an adequate major or minor as preparation for teaching in the secondary schools. In view of the student's total background, considerable flexibility may be permitted in approving the programs in the major and minor fields. However, in those cases in which a student's major or minor teaching field is not well-developed, the total of the subject matter and professional requirements may exceed the minimum of 45 hours. A minimum point-hour average of 2.25 in the minor as well as in the major is required for graduation.

4. Electives: If for a given student the required courses do not total 45 quarter hours, electives—either professional courses or additional subject matter courses in the major or minor fields—shall be taken to bring the total credit to 45 quarter hours.

5. Provisional Acceptance of Teaching: The student must satisfy the criteria of the Provisional Acceptance for Teaching Program.

COMBINED CURRICULA

ARTS-EDUCATION—SECONDARY

The student pursuing this curriculum should register in both colleges as soon as he has decided to become a candidate for both degrees. The entire program of study must be approved by appropriate advisers in each college, and each quarter's schedule must be approved by both colleges. Students may qualify for certification in this program in either the elementary or secondary area. The normal curriculum covers 14 quarters of residence. However, able students may seek approval for heavier loads any quarter except the one in which student teaching is scheduled, and complete the program in approximately 13 quarters.

The following program lists the requirements of this dual-degree program which requires completion of a minimum of 226 credit hours, with a cumulative point-hour ratio of at least 2.00 on all work undertaken at this University. Refer to page 12 for the
admission requirements to the Division of Professional Education of the College of Education.

I. General University Requirements
(Listed on page 19)

II. General College Requirements
(Listed on page 12)

III. University Basic Education Requirements
(Listed on pages 18-19)
1. Humanities: 15 hours
   Philosophy 210—Philosophical Bases of Western Culture
   Additional Requirements: 10 hours
2. Science: 15 hours
   History 121, 122, 123—The Western World in Modern Times

IV. Additional Course Requirements in the Dual-Degree Program
   Economics 201—The Economic System
   English 301—Informative Writing
   Mathematics—10 hours above the level of, but not including, Mathematics 101—Basic Mathematics
   Political Science 265—Fundamentals of Government
   Psychology 100—General Psychology
   or 300—Introductory Psychology
   Sociology 201—Fundamentals of Sociology
   Foreign Language (College of Arts and Sciences)

V. Required Major Area of Specialization

VI. Required Minor Area
(Or a second major area of specialization)

VII. Required Professional Courses
   Education 435—Theory and Practice in Secondary Education
   Education 587—Student Teaching in Secondary Schools
   Education 632—The History of Western Education or 636—Historical Foundations of American Education
   Education 637—Philosophy of Education
   Health Education 301—Health Education for Secondary Teachers
   Psychology 256—Introduction to Educational Psychology
   Methods Courses for major and minor teaching areas

CONSERVATION-EDUCATION
A special arrangement between the College of Education and the College of Agriculture and Home Economics makes it possible for a student to receive a bachelor of science degree from each college. The program calls for completion of a minimum of 241 credit hours.

In the College of Education the student generally majors in science. It is also possible to major in secondary social science or in elementary education. In the College of Agriculture and Home Economics the student follows the general agriculture curriculum majoring in biological conservation under the Department of Zoology and Entomology.

Students interested should consult the Natural Resources Institute in Townsend Hall for guidance in outlining this dual-degree curriculum and petitioning for its acceptance by the secretaries of the two colleges.

GRADUATE PROGRAMS
Graduate work in education is offered for the professional preparation of master teachers and other educational specialists, and to foster scholarly inquiry into teacher education and education as a field of study. Graduate programs are offered in the following specialized areas of education:

- Adult Education
- Audio-Visual Education
- Art Education
- Business Education
- Curriculum and Instruction
- Deaf and Hard of Hearing
- Distributive Education
- Educational Administration
- Educational Research
- Elementary Education
- English Education
- Exceptional Children
- Foreign Language Education
- Guidance
- Higher Education
- History of and Comparative Education
- Industrial Arts Education
- Mathematics Education
- Medical Education
- Music Education
- Philosophy of Education
- Radio-Television Education
- Reading Education
- Science Education
- Secondary Education—General
- Speech Education
- Social Studies Education
- Teacher Education
- Vocational Trade and Industrial Education

Centers
In addition to the areas listed above, four centers with diverse functions primarily at the graduate level have been established.

Center for Educational Administration
The purposes of the Center are (1) to promote instruction, research, and service related to the improvement of the preparation of school administrators, and (2) to provide, through cooperation with professional organizations, a program for the continued growth of administrators in service. The activities include (1) research projects
in school administration, (2) program development in instruction, (3) clinics, conferences, seminars and other service projects, (4) maintenance of a materials center on school administration and (5) the development of publications and other instructional materials in the area of educational administration. The Center for Educational Administration, located in 13 Page Hall, grew out of the Cooperative Program in Educational Administration (C.P.E.A.) initiated in 1951 and sponsored jointly by the College of Education and the W. K. Kellogg Foundation. In 1956, the Center was established with field and campus laboratories under the School of Education.

Center for Adult Education
This Center offers undergraduates an opportunity to explore the field by enrolling in certain elective courses. It also offers graduate students professional training programs leading to Master's and Ph.D. degrees.

The Center also conducts research and engages in service activities. Currently, it provides a home study course in citizenship for the foreign-born and a guided reading course for members of the Ohio Federation of Women's Clubs. Recently, it has worked with the State Department of Instruction and the Ohio Congress of Parents and Teachers in conducting leader training workshops. Handbooks, pamphlets, and reports are published as one of the services of the Center.

Center for Study of Modern Media Learning Systems
The Center is concerned with learning related to the utilization of modern media—television, films, teaching machines, radio, film strips, and the like—singly or in combination to implement the curriculum at all levels. It engages in research, instruction, and service in cooperation with appropriate departments of the University. It draws on the many resources of the University, including the Telecommunications Center. Activities projected involve field projects in schools and colleges; laboratory studies including the use of the instructional television laboratory in Derby Hall; training of specialists in the new educational media; workshops, seminars and conferences; and the development of publications and learning materials.

Center for the Study of Higher Education
Course offerings, service activities, and research in Higher Education and related fields are coordinated in the Center for the Study of Higher Education. The curriculum of the Center permits advanced students to specialize in academic administration, and the administration of teacher education. In addition, service courses are available to students in other professions who are interested in the purposes and problems of Higher Education.

The Center serves as a resource agency in Higher Education for teaching and service groups on the campus. Through the Center, assistance is also provided for efforts to improve programs in Higher Education throughout the state. Research activities, particularly in the organization and administration of Higher Education, are an important part of the work of the Center.

For a more detailed description of each of these areas consult the departmental brochure Graduate Studies in Education.

The Master of Arts Degree
In addition to the requirements of the Graduate School for Master's degrees, described in the Graduate School section of this bulletin, the College of Education has other specific procedures and regulations that must be met.

Admission
Specific admission requirements of the College of Education pertain to admission to a degree or certificate program. Every graduate student admitted to the College of Education must be registered in the Education Graduate office and must have a designated adviser. For students who are not sure about an area of specialization, the Director of Graduate Studies usually serves as acting adviser for the initial quarter of study.

A student beginning graduate work in the College of Education must provide evidence of adequate studies in education and teaching fields to qualify for a four-year provisional teaching certificate in Ohio or in other states having comparable standards. This policy may be waived for students whose professional objectives are in fields other than those directly related to public schools, e.g., Higher Education
Administration and Adult Education. In these fields, at least 12 hours in the foundations of education over and above minimal degree requirements shall be required.

The Advisory System

After an adviser has been assigned by the Director of Graduate Studies, the student and his adviser decide upon his studies for the first quarter and map out his program for the degree in broad outline. At each subsequent quarter's registration, the student again confers with the adviser; all courses taken must have his approval.

Program Requirements

A student working toward a Master's degree must devote at least one quarter to full-time study in order to meet residency requirements. The academic standards set forth in the Graduate School section of this catalog will also be required for successful completion of a Master's degree.

The program of graduate study should show a reasonable degree of concentration on interrelated subjects and must be pursued under not fewer than two members of the graduate faculty. A minimum of 45 graduate hours must be completed for the Master of Arts degree, Plan A, and 50 graduate hours for the Master of Arts degree, Plan B (please see below). In many cases, the student's academic and professional background will warrant going beyond minimal requirements. The School further requires that at least 15 hours must be in the College of Education. The following distinctive regulations are also applicable.

Plan A. 1. Of the 45 hours required minimum, not more than 15 hours credit may be for thesis (Education 999), individual problems (Education 693), and Practicum in Problems of Public Education (Education 690). Not more than six of the 15 hours may be for thesis. At least 6 hours are required in educational research design and data treatment and 6 hours in educational foundations.

2. A thesis satisfactory to the student's adviser is required. Credit for the thesis up to six hours is allowed as part of the minimum 45 hours. Students are encouraged to select as thesis topics problems of a theoretical or practical nature with which they are concerned in their professional activity.

Plan B. 1. Of the 50 hours required minimum, not more than 20 hours credit may be for independent studies and practicum, though 6 such hours are required. In addition, 6 hours are needed in educational foundations.

2. A thesis is not required.

Examination

In Plan A, students are required to take a one-hour oral examination conducted by the adviser and one additional member of the graduate faculty. These two staff members have the responsibility for recommending the granting or withholding of the degree. In making their recommendations, they consider the student's record in course work, quality of the thesis, his showing in the examination, the reports of professors in whose courses he has been enrolled, and any other available data. In Plan B, a comprehensive four-hour written examination is required. The adviser assumes responsibility for initiating the formulation of examination questions and evaluating the examination. Examinations will be conducted by the Director of Graduate Studies and will be scheduled two weeks prior to the end of each quarter.

Specialist in Educational Administration Certificate

A certificate, Specialist in Educational Administration, is offered by the College of Education for students completing requirements of a planned program of post Master's degree graduate study in the Area of Educational Administration. The Specialist's program is designed to provide further professional preparation for practicing educational administrators and for students seeking positions in educational administration.

Admission

For admission to this program, the following requirements must be met: (a) admission to the Graduate School as stated elsewhere in this catalog; (b) a Master's degree from an approved college or university; (c) completion of the requirements for administrative certification in Ohio or other states having comparable standards; (d) credentials and test data requested by a College selection committee; and (e) recommendations of two professors on the College selection committee indicating that the applicant should be admitted to the program.
Advisory System

Upon admission to the program, at a conference with the Director of Graduate Studies in Education, the student will be assigned an adviser. The adviser and the student will prepare a planned sequence of work and study.

Program Requirements

A minimum of 45 quarter hours of post-Master's graduate work is required plus field experience. This work shall include 21 hours in educational administration including the 12-hour practicum, 6 hours in research including a research project and a 3-hour research course, 6 hours in courses selected in departments other than the College of Education, 12 hours in professional education courses outside the area of educational administration, and field experience. One quarter of full-time residence or equivalent will be required. The completion of the program requirements may not be extended beyond seven years from date of initiation.

Other requirements include demonstrated professional competence through two years or more of successful educational administrative experience of which one year may be directed internship, and a written report of an approved research project.

Examination

The student will take a two-hour written examination in educational administration prepared and read by the student's adviser and one other professor appointed by the Committee on Graduate Studies in Education; and a one-hour oral examination on the student's written research report conducted by the adviser and a professor appointed by the Committee on Graduate Studies in Education.

Doctor of Philosophy

The Doctor of Philosophy degree is the only doctoral program offered by the College of Education. A description of degree requirements is contained in the Graduate School section of this Bulletin. Only the unique aspects of the College of Education requirements which are additionally specified are included here.
As soon as practicable after its appointment, the advisory committee, in conference with the student, designates the areas in which he is to show competence by examinations. The regulations governing the examination are as follows:

1. The examinations shall be written and oral.
2. Not fewer than three nor more than six areas may be designated.
3. The written portion of the examinations shall be not less than 20 hours in length and the oral portion shall be two hours in length.
4. At least 12 hours of this written examination must be in areas of the College listed as suitable for specialization for the doctorate.
5. No area may be given a weight of more than 50 percent of the total of the written portion of the examination.

These requirements are very broad, and give the advisory committee every opportunity to provide an examination plan which is functional in terms of the student's professional goals. It is only occasionally that the examination schemes of two students are identical. The most common type pattern provides for one eight-hour major and three four-hour minor written tests, but a scheme of one eight-hour major, and two six-hour minor written tests is not uncommon and other patterns are utilized from time to time.

The student may prepare for his examinations in any way that seems suitable. He may, for example, take courses for credit, audit courses, do private reading, confer individually with professors, engage in informal discussions with other graduate students, and pursue related activities. Usually he will utilize all of these methods. He may make use of questions which have been used in previous examinations.

The school preliminary examinations (usually three four-hour minor area written tests) are conducted after he has completed at least 45 hours of graduate work beyond the Master's degree and has passed the foreign language examinations. If he passes the preliminary examinations, the student takes general examinations (usually an eight-hour written test in his major field followed by a two-hour oral examination), which are conducted by a committee of five or more professors consisting of the student's advisory committee and other designated faculty members.

A student who passes the general examination is admitted to candidacy for the degree. In deciding whether a student is to be admitted, the examining committee considers his record in courses, reports of professors in whose classes he has been enrolled, his showing in the preliminary and the general examinations and any other available data.

After the quarter in which he is admitted to candidacy, the candidate must be registered in the Graduate School for at least two quarters of not less than 20 hours of credit, or until he has fulfilled his residence and credit-hour requirements if more than 20 hours remain to be completed.

Dissertation
A dissertation which is a definite contribution to knowledge and of importance sufficient to warrant its publication, is to be prepared by the candidate. In order to be considered satisfactory, the dissertation must be approved unanimously by a reading committee of at least three graduate faculty members including the candidate's adviser who chairs the committee.

Final Examination
A final oral examination is held after the dissertation has been approved. It is conducted by a committee consisting of the candidate's adviser, the members of the reading committee, and such other examiners as may be designated.
Department of Physical Education

Degrees offered: Bachelor of Science in Education, Master of Arts, Doctor of Philosophy.

UNDERGRADUATE PROGRAMS

All undergraduate curricula in the Department of Physical Education lead to the degree Bachelor of Science in Education. The programs in this area prepare students in the following fields:

1. Teachers of physical education, dance, and health in schools and colleges.
2. Coaches of athletic teams.
3. Directors of school and community programs.
4. Directors of intramural and interscholastic athletic programs.

The Ohio State University through an official affiliation with the Veterans Administration prepares men as corrective therapists. Men enrolled in physical education can meet the requirements by electing specific courses and appropriate field work without sacrificing certification in health and physical education.

Students who plan to pursue one of the programs in the Department of Physical Education should consult an adviser in the appropriate division:

Men’s Division—204 Physical Education Building
Women’s Division—201 Pomerene Hall.

Students not specializing in health and physical education may elect one or more physical education courses in addition to the physical education courses required of all students. In each case, the student must secure the approval of the Department of Physical Education.

HEALTH EDUCATION

This program is offered by the Department of Physical Education to provide preparation in school health education. Students successfully completing this curriculum are eligible for the Ohio Four-Year Professional High School certificate validated for the teaching of Health Education in grades 7 through 12. Its purpose is to prepare full time supervisors, coordinators, and teachers of School Health Education.

I. General University Requirements for Health Education Majors

1. Air Science Studies, Military or Naval Science: 6 quarters or Second-Level Academic Courses: 6-10 hours
3. Physical Education: 101, 102, 103 (men); 104, 105, 106 (women).
   (Students selecting this curriculum will not enroll in Health Education 101, 103, 300, 301.)

II. General College Requirements (Listed on page 12)

III. University Basic Education Requirements (Listed on pages 18-19)

1. Science: 15 hours
   Biology 100—Principles of Biology
   Additional courses in Science
2. Social Science: 15 hours
   Psychology 100—Introductory Psychology
   Additional courses in Social Science
3. Humanities: 15 hours

IV. Content Courses in Major Area

Civil Engineering 410—Public Health Engineering
Health Education 102—First Aid
Health Education 602—Personal Health Problems
Health Education 610—The Teaching of Health
Health Education 620—Organizational Relationships in School Health Education
Health Education 621—School Health Services
Home Economics 110—Elements of Nutrition
Microbiology 509—Microbiology in Relation to Man
Physical Education 621—Principles of Physical Education
Psychology 551—Adolescence
Psychology 570—Exceptional Children: General Survey
Sociology 330—Factors in Successful Marriage
Speech 105—Principles of Effective Speaking

V. Required Professional Courses

Education 108—Introduction to the Study of Education
Education 460—Elementary Education: Child Guidance
Education 461—Elementary Education: Conceptions of Teaching
Education 486—Theory and Practice in Secondary Education
Education 887.24—Student Teaching in Secondary Schools
Education 670—Audio-Visual Materials for Instruction
Education 673—Philosophy of Education
Psychology 220—Introduction to Educational Psychology

HEALTH EDUCATION: MINOR

Nonduplicating courses selected by approval of Departmental advisers; minimum quarter hours are indicated in each group. Students selecting this minor will not take Health Education 101, 103, 300, 301.
REQUIRED COURSES ................................................43 hours

(a) Anatomy and Physiology: 15 hours

(b) Principles, Administration and Methods of the School Health Education Program: 10 hours
   Health Education 610—The Teaching of Health
   Health Education 620—Organizational Relationships in School Health Education
   Health Education 621—School Health Services

(c) Personal and Community Hygiene: 9 hours
   Health Education 200—Hygiene
   Health Education 602—Personal Health Problems
   Sociology 230—Factors in Successful Marriage or 490—The Modern Family

(d) Electives Pertinent to the field: 9 hours
   Health Education 603—Current Progress in Disease Control
   Microbiology 509—Microbiology in Relation to Man
   Psychology 570—Exceptional Children; General Survey
   Psychology 551—Adolescence
   Sociology 434—Social Orientation of Children

PHYSICAL EDUCATION (MEN)

Students majoring in physical education must attain standards in physical education activities set by the Department before they may enter the Division of Professional Education. Since beginning teachers are often expected to teach more than one subject, it is recommended that a student in this area complete certification requirements in an additional teaching area.

Certification in this area is determined by the areas in which student teaching is done. Students who complete the program with student teaching on both the elementary and secondary levels will be eligible for the Ohio Four-Year Provisional Special certificate, validated for teaching health and physical education in grades 1 through 12. If student teaching has been done on the secondary level only, the student will be eligible for the high school certificate valid for teaching grades 7 through 12.

I. General University Requirements for Physical Education Majors

1. Air Science Studies, Military or Naval Science: 6 quarters or Second Level Academic Courses: 6-10 hours.
   (Listed on page 19)


3. Physical Education Activities, 131, 132, 133,
   (Students enrolling in this curriculum should not elect Health Education 101, 103, 300, 301; Physical Education 161, 162, 163.)

II. General College Requirements
   (Listed on page 12)

III. University Basic Education Requirements
   (Listed on pages 18-19; Consult Departmental Adviser)

1. Science: 15 hours
   Biology 100—Principles of Biology
   Zoology 231—Functional Anatomy and Physiology
   1 Additional Science

2. Social Science: 15 hours
   Psychology 100—General Psychology
   Sequence in Social Science (10 hours)

3. Humanities: 15 hours

IV. Content Courses in Major Area

Health Education 610—The Teaching of Health
Health Education 620—Organizational Relationships in School Health Education
Health Education 621—School Health Services
Physical Education 214—The Science of Development Through Activity

Physical Education 231, 232, 233—Physical Education Activities
Physical Education 420.02—Basketball
Physical Education 420.04—Football
Physical Education 420.11—Track and Field
or 420.01—Baseball
or 420.03—Swimming
Physical Education 630—the Administration of Interschool Athletics
Physical Education 621—Principles of Physical Education
Physical Education 642—Organization and Administration of Physical Education
Physical Education 650—Evaluation in Physical Education
Physical Education 660—Kinesiology
Physical Education 661—First Aid and Care of Injuries
Physical Education 662—Adapted Physical Education
Zoology 232, 233—Functional Anatomy and Physiology II, III

V. Required Professional Courses

Education 435—Theory and Practice in Secondary Schools
Education 586.07—Supervised Student Teaching in Elementary Schools
Education 587.07—Supervised Student Teaching in Secondary Schools
Education 635—The History of Western Education or 636—Historical Foundations of American Education
Education 637—Philosophy of Education
Physical Education 642—Physical Education for the Elementary School Child
Physical Education 647—Physical Education for Secondary School Youth
Psychology 230—Introduction to Educational Psychology

Men's Physical Education Honorary is open to all qualified men physical education major or minor students. The organization promotes social and professional relationships among physical education students. It maintains a clubroom in the Men's Physical Education Building, and sponsors intramural teams, professional meetings, and social activities.

PHYSICAL EDUCATION (MEN): MINOR

Students selecting this minor should not enroll in Health Education 101, 103, 300, 301; Physical Education 101, 102, 103.

Required Courses ............................................44 hours

Health Education 200—Hygiene
Health Education 611—School Health Services
Physical Education 620—Principles of Physical Education
Physical Education 661—First Aid and Care of Injuries
Zoology 231, 232, 233—Functional Anatomy and Physiology

Select three of the following courses:

Physical Education 131, 132, 133, 231, 232, 233—Physical Education Activities

Complete 6 hours from the following courses:

Physical Education 420.01-12—The Teaching of Athletic Sports
Required Professional Courses
Physical Education 647—Physical Education for Secondary School Youth
TEACHING INTERSCHOLASTIC SPORTS: MINOR

Required Courses ..................................................... 43 hours

- Physical Education 214—The Science of Development Through Activity
- Physical Education 530—The Administration of Interschool Athletics
- Physical Education 621—Principles of Physical Education
- Physical Education 660—Kinesiology
- Physical Education 661—First Aid and Care of Injuries

Select 6 hours from the following:

- Physical Education 221—Sports Officiating—Football
- Physical Education 222—Sports Officiating—Basketball
- Physical Education 420.01-.12—The Teaching of Athletic Sports

Required Professional Courses

- Education 587.07—Supervised Student Teaching in Secondary Schools

PHYSICAL EDUCATION (WOMEN)

Students majoring in physical education must attain standards in physical education courses set by the Department before they may enter the Division of Professional Education. Certification in this area is determined by the levels in which student teaching is done. Students who complete the program with student teaching on both the elementary and secondary levels will be eligible for the Ohio Four-Year Provisional Special certificate, validated for teaching health and physical education in grades 1 through 12. If student teaching has been done on the secondary level only, the student will be eligible for the High School certificate valid for teaching grades 7 through 12.

I. General University Requirements for Physical Education Majors

1. Health Education 200
2. Physical Education 131, 132, 133
3. Second Level Academic Courses (6-10 hours)
   (Students enrolling in this curriculum should not elect Health Education 101, 300, or 301; Physical Education 104, 105, 106)

II. General College Requirements

(Listed on page 12)

III. University Basic Education Requirements

(Listed on pages 18-19)

- Science: 15 hours
  - Biology 100—Principles of Biology
  - Zoology 231—Functional Anatomy and Physiology I
  - Additional physical science requirement

- Social Science: 15 hours
  - Psychology 100—General Psychology
  - Sequence in Social Science (10 hours)

- Humanities: 15 hours

IV. Content Courses in Major Area

- Health Education 102—First Aid
- Health Education 610—The Teaching of Health
- Health Education 620—Organizational Relationships in School Health Education
- Health Education 621—School Health Services
- Physical Education 231, 232, 233—Physical Education Activities

- Physical Education 621—Principles of Physical Education
- Physical Education 642—Organization and Administration of Physical Education
- Physical Education 660—Kinesiology
- Physical Education 662—Adapted Physical Education

Select one of the following:

- Speech 105—Principles of Effective Speaking
- Speech 135—Voice and Diction
- Speech 230—Speech Functions and Responsibilities of the Teacher

V. Required Professional Courses

- Dance 245—Reconstruction, Analysis and Teaching of Folk Dance Forms
- Education 108—Introduction to the Study of Education
- Education 425—Theory and Practice in Secondary Education
- Education 586.08—Supervised Student Teaching in Elementary Schools
- Education 587.08—Supervised Student Teaching in Secondary Schools
- Education 632—The History of Western Civilization Education 637—Philosophy of Education
- Physical Education 541—Theory and Practice of Elementary School Physical Education
- Physical Education 542—Physical Education for the Elementary School Child
- Physical Education 643—Theory and Practice of Physical Education for Junior High School Youth
- Physical Education 647—Physical Education for Secondary School Youth
- Physical Education 649—Physical Education for Senior High School Youth
- Psychology 230—Introduction to Educational Psychology

* Optional with student. Required for certification in elementary grades.

Physical Education Association is for all women pursuing majors or minors within the Division. The purpose of the organization is to stimulate interest in the profession of physical education and to foster greater unity among students and faculty.

Women's Recreation Association endeavors to further recreational sports and dance for all women students. The program includes intramural tournaments, sports club activities, intercollegiate contests, and special events such as open houses and sports days. The club groups included within W.R.A. are: Basketball Club, Golf Club, Gymnastic Club, Hockey Club, Softball Club, Tennis Club, and Volleyball Club which provide challenging playing and learning experiences for their members; Outing Club, which provides outdoor educational experiences and week-end camping trips; Cygnets and Swan Club, organized to increase interest and skill in synchronized swimming stunts and performances.

PHYSICAL EDUCATION (WOMEN): MINOR

Students enrolling in this curriculum should not elect Health Education 101, 103, 300, or 301; Physical Education 104, 105, 196.

Required Courses ..................................................... 44-48 hours

- Dance 245—Reconstruction, Analysis and Teaching of Folk Dance Forms
- Health Education 102—First Aid
- Health Education 200—Hygiene
- Health Education 610—The Teaching of Health
- Health Education 621—School Health Service
- Physical Education 621—Principles of Physical Education
DEPARTMENT OF PHYSICAL EDUCATION

Select four courses from the following:

Physical Education 131, 132, 133, 231, 232, 233—Physical Education Activities (2 hours each)
Physical Education 270—Supervision of Playground and Community Recreation Activities
Physical Education 543—Theory and Practice of Physical Education for Junior High School Youth
Physical Education 420.09—Swimming

Required Professional Course
Physical Education 647—Physical Education for Secondary School Youth or
Physical Education 648—Physical Education for Senior High School Youth

PUBLIC RECREATION (NON-TEACHING)

A program designed especially to prepare personnel for employment in public recreation has been planned jointly by the Department of Physical Education and the School of Social Work.

This program does not lead to teacher certification.

A student wishing to elect this program should consult with an adviser in the Department of Physical Education.

I. General University Requirements for Public Recreation Majors

1. Air Science Studies, Military or Naval Science: 6 quarters or Second-Level Academic Courses: 6-10 hours
   (Listed on page 19)
2. Health Education 200
3. Physical Education 131, 132, 133
   (Students enrolling in this curriculum should not elect Health Education 101, 300, 301; Physical Education 101, 102, 103.)

II. General College Requirements
   (Listed on page 14)

III. University Basic Education Requirements

1. Science: 15 hours
2. Social Science: 15 hours
   Psychology 100—General Psychology
   Social Science sequence (10 hours)
3. Humanities: 18 hours

IV. Content Courses in Major Area

Dance 248—Reconstruction, Analysis and Teaching of Folk Dance Forms
Education 255—The Handicrafts
Education 289.06—Field Service Projects in Education
Education 672—Adult Education
Education 675—Audio-Visual Materials of Instruction
English 301—Informative Writing
Fine Arts 290—Fundamentals of Art
Health Education 102—First Aid
Music 265—Music for Group Recreation
Physical Education 276—Supervision of Playground and Community Recreation Activities
Physical Education 271—Camp Counseling
Physical Education 642—Physical Education for the Elementary School Child
Physical Education 771—Public Recreation: Its Organization and Administration
Political Science 205—American State Government
Political Science 605—American Municipal Government
Political Science 610—Principles of Public Administration
Psychology 320—Social Psychology
Psychology 551—Adolescence

Sociology 290—The Sociology of Urban Life
Sociology 405—Collective Behavior and Social Movements
Sociology 465—Work and Leisure in Mass Society
Sociology 492—The School and the Community
Sociology 560—The Community

GRADUATE PROGRAMS

PREREQUISITES FOR GRADUATE WORK

Unconditional admission to graduate work in health and physical education is based on presentation of credit from accredited institutions as follows: at least 15 quarter hours in professional education and 24 quarter hours in health and physical education, exclusive of anatomy, kinesiology, and physiology.

A candidate for a degree in health education must present an undergraduate major or minor in health and/or physical education, nursing, dental hygiene or biological science. Graduates from other related health areas should submit credentials to the Admissions Office for referral to the Department for consideration.

THE MASTER'S DEGREE

Candidates for the Master of Arts degree must fulfill the requirements of the Graduate School and must schedule Physical Education 885 and 650 unless the equivalent has been taken elsewhere.

Candidates who did not present 9 quarter hours of anatomy, kinesiology, and/or physiology will be required to take these in addition to the 45 hours needed for the degree. Candidates for the degree in health education may not include kinesiology in meeting this requirement.

Candidates specializing in health education will be expected to fulfill the minimum current requirements in the area of health education specialization as stipulated by the Ohio Department of Education.

DOCTOR OF PHILOSOPHY

Candidates for the Ph.D. degree must, in addition to fulfilling the requirements of the Graduate School, present a second field of competence outside the areas of physical education or health education, the quantity and quality of which is to be determined by the Advisory Committee in conference with the candidate. The Departmental requirements in regard to anatomy, physiology, and Physical Education 885 and 650 are the same as those listed above for the Master's degree.
### University Calendar for 1968-69

#### Summer Quarter, 1968

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1</td>
<td>Last day applications received (Wed.)</td>
</tr>
<tr>
<td>May 3</td>
<td>Schedule cards for Summer Quarter may be obtained in the Registrar's Office (Fri.)</td>
</tr>
<tr>
<td>May 8</td>
<td>Schedule cards for Summer Quarter may be filed in the college offices (Mon.)</td>
</tr>
<tr>
<td>May 18</td>
<td>Last day for filing Summer Quarter schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>June 1</td>
<td>Application deadline — Graduate School students (Sat.)</td>
</tr>
<tr>
<td>June 13</td>
<td>Last day for placement testing (Thurs.)</td>
</tr>
<tr>
<td>June 14</td>
<td>Last day for payment of fees before classes begin for the First Term and the Quarter (Fri.)</td>
</tr>
<tr>
<td>June 15</td>
<td>Last day for completing registration (Sat. noon)*</td>
</tr>
<tr>
<td>June 17</td>
<td>Welcome Program for all new students (Mon.)</td>
</tr>
<tr>
<td>June 18</td>
<td>Classes begin, 8 a.m. (Tues.)</td>
</tr>
<tr>
<td>July 1</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 — No classes — Offices closed (Thurs.)</td>
</tr>
<tr>
<td>July 18</td>
<td>Last day for withdrawal from the University for the Quarter with any refund of fees (Quarter students) (Tues.)</td>
</tr>
<tr>
<td>July 23</td>
<td>Last day for payment of Second Term fees before the Second Term classes begin (Tues.)</td>
</tr>
<tr>
<td>July 23-24</td>
<td>Final examinations — First Term (at regular class hour) (Tues. and Wed.)</td>
</tr>
<tr>
<td>July 24</td>
<td>First Term ends, 12 Midnight (Wed.)</td>
</tr>
<tr>
<td>July 25</td>
<td>Second Term begins, 8 a.m. (Thurs.)</td>
</tr>
<tr>
<td>July 30</td>
<td>Schedule cards available for the Autumn Quarter (Tues.)</td>
</tr>
<tr>
<td>July 31</td>
<td>Schedule cards for the Autumn Quarter may be filed in the college offices (Wed.)</td>
</tr>
<tr>
<td>August 8</td>
<td>Last day for withdrawal from the University for the Second Term with any refund of fees (Fri.)</td>
</tr>
<tr>
<td>August 28-30</td>
<td>Final Examinations for the Quarter (Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>August 29-30</td>
<td>Final Examinations — Second Term (at regular class hour) (Thurs. and Fri.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Summer Convocation (Commencement) 9 a.m., St. John Arena (Fri.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Summer Quarter ends, 12 Midnight (Fri.)</td>
</tr>
<tr>
<td>August 31</td>
<td>Last day for filing Autumn Quarter schedule cards (Sat. noon)</td>
</tr>
</tbody>
</table>

#### Autumn Quarter, 1968

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 30</td>
<td>Schedule cards available for the Autumn Quarter (Tues.)</td>
</tr>
<tr>
<td>July 31</td>
<td>Schedule cards for the Autumn Quarter may be filed in the college offices (Wed.)</td>
</tr>
<tr>
<td>August 1</td>
<td>Last day applications received—Undergraduate students (Thurs.)</td>
</tr>
<tr>
<td>August 31</td>
<td>Last day for filing Autumn Quarter Schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>September 2</td>
<td>Legal Holiday—Labor Day—No classes—Offices closed (Mon.)</td>
</tr>
<tr>
<td>September 3</td>
<td>Application deadline—Graduate School students (Tues.)</td>
</tr>
<tr>
<td>September 13</td>
<td>Last day for placement testing (Fri.)</td>
</tr>
<tr>
<td>September 16</td>
<td>Last day for completing registration (Mon.)*</td>
</tr>
<tr>
<td>September 20</td>
<td>Last day for payment of fees (Fri.)</td>
</tr>
<tr>
<td>September 23-24</td>
<td>Welcome Program for all new students (Mon. and Tues.)</td>
</tr>
<tr>
<td>September 25</td>
<td>Classes begin 8 a.m. (Wed.)</td>
</tr>
<tr>
<td>October 22</td>
<td>Last day for withdrawal from the University with any refund of fees (Tues.)</td>
</tr>
<tr>
<td>October 28-29</td>
<td>Schedule cards for Winter Quarter may be obtained in the college offices (A-K on Mon. and L-Z on Tues.)</td>
</tr>
<tr>
<td>October 30-31</td>
<td>Schedule cards for Winter Quarter may be filed in the college offices (Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>November 1</td>
<td>Last day for filing Winter Quarter schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>November 9</td>
<td>Legal Holiday—Veterans' Day—Classes as usual—Offices open (Mon.)</td>
</tr>
<tr>
<td>November 28</td>
<td>Legal Holiday—Thanksgiving—No classes—Offices closed (Thurs.)</td>
</tr>
<tr>
<td>November 29-30</td>
<td>Student vacation—No classes—Offices open (Fri. and Sat.)</td>
</tr>
<tr>
<td>December 6</td>
<td>Last day of regularly scheduled classes (Fri.) (No classes Saturday, December 7)</td>
</tr>
<tr>
<td>December 8-13</td>
<td>Final Examinations (Mon., Tues., Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>December 14</td>
<td>Autumn Convocation (Commencement) 9:30 a.m., St. John Arena (Sat.)</td>
</tr>
<tr>
<td>December 14</td>
<td>Autumn Quarter ends, 12 midnight (Sat.)</td>
</tr>
<tr>
<td>December 25</td>
<td>Legal Holiday—Christmas—Offices closed (Wed.)</td>
</tr>
</tbody>
</table>

#### Winter Quarter, 1969

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 28-29</td>
<td>Schedule cards for Winter Quarter may be obtained in the college offices (A-K on Mon. and L-Z on Tues.)</td>
</tr>
<tr>
<td>October 30-31</td>
<td>Schedule cards for Winter Quarter may be filed in the college offices (Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>November 1</td>
<td>Last day for filing Winter Quarter Schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>November 9</td>
<td>Last day applications received—Undergraduate students (Fri.)</td>
</tr>
<tr>
<td>November 15</td>
<td>Application deadline—Graduate School students (Mon.)</td>
</tr>
<tr>
<td>December 13</td>
<td>Last day for placement testing (Fri.)</td>
</tr>
<tr>
<td>December 16</td>
<td>Last day for completing registration (Mon.)*</td>
</tr>
<tr>
<td>December 30</td>
<td>Last day for payment of fees (Mon.)</td>
</tr>
<tr>
<td>January 1</td>
<td>Legal Holiday—New Year's Day—Offices closed (Wed.)</td>
</tr>
<tr>
<td>January 2</td>
<td>Welcome Program for all new students (Thurs.)</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>January 2</td>
<td>Classes begin 8 a.m. (Thurs.)</td>
</tr>
<tr>
<td>January 29</td>
<td>Last day for withdrawal from the University with any refund of fees (Wed.)</td>
</tr>
<tr>
<td>February 3-4</td>
<td>Schedule cards for the Spring Quarter may be obtained in college offices (A-K on Mon. and L-Z on Tues.)</td>
</tr>
<tr>
<td>February 5-7</td>
<td>Schedule cards for Spring Quarter may be filed in college offices (Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>February 12</td>
<td>Legal Holiday—Lincoln's Birthday—Classes as usual—Offices open (Wed.)</td>
</tr>
<tr>
<td>February 15</td>
<td>Last day for filing Spring Quarter schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>February 22</td>
<td>Legal Holiday—Washington's Birthday—Classes as usual—Offices open (Sat.)</td>
</tr>
<tr>
<td>March 7</td>
<td>Last day of regularly scheduled classes (Fri.) (No classes Saturday, March 8)</td>
</tr>
<tr>
<td>March 10-14</td>
<td>Final Examinations (Mon., Tues., Wed., Thur., and Fri.)</td>
</tr>
<tr>
<td>March 15</td>
<td>Winter Convocation (Commencement) 9:30 a.m., St. John Arena (Sat.)</td>
</tr>
<tr>
<td>March 15</td>
<td>Winter Quarter ends, 12 midnight (Sat.)</td>
</tr>
</tbody>
</table>

**Spring Quarter, 1969**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 3-4</td>
<td>Schedule cards for the Spring Quarter may be obtained in college offices (A-K on Mon. and L-Z on Tues.)</td>
</tr>
<tr>
<td>February 5-7</td>
<td>Schedule cards for the Spring Quarter may be filed in college offices (Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>February 15</td>
<td>Last day for filing Spring Quarter schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>March 1</td>
<td>Application deadline—Graduate School students (Sat. noon)</td>
</tr>
<tr>
<td>March 13</td>
<td>Last day for placement testing (Thurs.)</td>
</tr>
<tr>
<td>March 14</td>
<td>Last day for completing registration (Fri.)*</td>
</tr>
<tr>
<td>March 21</td>
<td>Last day for payment of fees (Fri.)</td>
</tr>
<tr>
<td>March 24</td>
<td>Welcome Program for all new students (Mon.)</td>
</tr>
<tr>
<td>March 25</td>
<td>Classes begin, 8 a.m. (Tues.)</td>
</tr>
<tr>
<td>April 21</td>
<td>Last day for withdrawal from the University with any refund of fees (Mon.)</td>
</tr>
<tr>
<td>May 2</td>
<td>Schedule cards for Summer Quarter may be obtained in the college offices (Fri.)</td>
</tr>
<tr>
<td>May 5</td>
<td>Schedule cards for Summer Quarter may be filed in the college offices (Mon.)</td>
</tr>
<tr>
<td>May 8</td>
<td>Free Day—No classes after 10 a.m. (including evening classes)—Undergraduate colleges—Offices will remain open (Thurs.)</td>
</tr>
<tr>
<td>May 17</td>
<td>Last day for filing Summer Quarter schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>May 28</td>
<td>Last day of regularly scheduled classes (Thurs.) (No classes Saturday, May 31)</td>
</tr>
<tr>
<td>May 30</td>
<td>Legal Holiday—Memorial Day—No classes—Offices closed (Fri.)</td>
</tr>
<tr>
<td>June 2-6</td>
<td>Final examinations (Mon., Tues., Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>June 7</td>
<td>Spring Convocation (Commencement) 9 a.m., O.S.U. Stadium (Sat.)</td>
</tr>
<tr>
<td>June 7</td>
<td>Spring Quarter ends, 12 midnight (Sat.)</td>
</tr>
</tbody>
</table>

**Summer Quarter, 1969**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1</td>
<td>Last day applications received—Undergraduate students (Thurs.)</td>
</tr>
<tr>
<td>May 2</td>
<td>Schedule cards for Summer Quarter may be obtained in the college offices (Fri.)</td>
</tr>
<tr>
<td>May 5</td>
<td>Schedule cards for Summer Quarter may be filed in the college offices (Mon.)</td>
</tr>
<tr>
<td>May 17</td>
<td>Last day for filing Summer Quarter schedule cards (Sat. noon)</td>
</tr>
<tr>
<td>June 2</td>
<td>Application deadline—Graduate School students (Mon.)</td>
</tr>
<tr>
<td>June 12</td>
<td>Last day for placement testing (Thurs.)</td>
</tr>
<tr>
<td>June 13</td>
<td>Last day for completing registration* and last day for payment of fees before classes begin to: the First Term and the Quarter (Fri.)</td>
</tr>
<tr>
<td>June 16</td>
<td>Welcome Program for all new students (Mon.)</td>
</tr>
<tr>
<td>June 17</td>
<td>Classes begin, 8 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—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 (Mon.)</td>
</tr>
<tr>
<td>July 18</td>
<td>Last day for payment of Second Term fees before the Second Term classes begin (Fri.)</td>
</tr>
<tr>
<td>July 21-22</td>
<td>Final Examinations—First Term (at regular class hour) (Mon. and Tues.)</td>
</tr>
<tr>
<td>July 22</td>
<td>First Term ends, 12 midnight (Tues.)</td>
</tr>
<tr>
<td>July 23</td>
<td>Second Term begins, 8 a.m. (Wed.)</td>
</tr>
<tr>
<td>July 30</td>
<td>Schedule cards available for the Autumn Quarter (Wed.)</td>
</tr>
<tr>
<td>July 31</td>
<td>Schedule cards for the Autumn Quarter may be filed in the college offices (Thurs.)</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 hour) (Mon. and Tues.)</td>
</tr>
<tr>
<td>August 26</td>
<td>Last day for regularly scheduled classes (Tues.)</td>
</tr>
<tr>
<td>August 27-29</td>
<td>Final Examinations for the Quarter (Wed., Thurs., and Fri.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Summer Convocation (Commencement) 9 a.m., St. John Arena (Sat.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Summer Quarter ends, 12 midnight (Sat.)</td>
</tr>
<tr>
<td>August 30</td>
<td>Last day for filing Autumn Quarter schedule cards (Sat. noon)</td>
</tr>
</tbody>
</table>

* Except newly admitted Graduate School students. The final date for these students will extend to the last day before the beginning of classes for the Quarter.
Library Calendar 1968-69

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.—5 p.m.
Saturday 8 a.m.—12 noon
Sunday Closed

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, 1968
June 18 Begin Summer Quarter hours.
July 4 Independence Day—All libraries closed.
August 30 Begin Between Quarter Schedule at 5 p.m.

AUTUMN QUARTER, 1968
August 31—September 2
September 25 Labor Day Weekend—All libraries closed.
September 26 Begin Autumn Quarter hours.

Winter Quarter, 1969
December 25 Christmas Day—All libraries closed.

Spring Quarter, 1969
March 25 Begin Spring Quarter hours.
April 6 Easter Day—All libraries follow regular Sunday schedule.
May 30 Memorial Day—All libraries follow regular Friday schedule.
June 7 Begin Between Quarter schedule at 5 p.m.

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.

ANCILLARY LIBRARIES—Autumn, Winter, and Spring Quarters

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aero-Civil Engr., 322 Civil Aero. Engr. Bldg.</td>
<td>8-5; 7-9</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>9-1</td>
<td>Closed</td>
</tr>
<tr>
<td>Agronomy Dept., 111 Townsend Hall</td>
<td>8-12; 1-5</td>
<td>8-12; 1-5</td>
<td>1-5</td>
<td>Closed</td>
</tr>
<tr>
<td>Botany &amp; Zoology, 200 Botany &amp; Zoology Bldg.</td>
<td>8-10</td>
<td>8-10</td>
<td>8-4:30</td>
<td>2-10</td>
</tr>
<tr>
<td>Brown, 103 Brown Hall</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Buckeye Village</td>
<td>3-5; 7-11</td>
<td>3-5; 7-11</td>
<td>12 noon-11 p.m.</td>
<td>12 noon-11 p.m.</td>
</tr>
<tr>
<td>Chemistry, 310 McPherson Chem. Lab.</td>
<td>8-10</td>
<td>8-5</td>
<td>9-5</td>
<td>2-9:30</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>9-12 noon</td>
<td>2-10</td>
</tr>
<tr>
<td>Commerce, 204 Page Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-5</td>
<td>9-12 noon</td>
</tr>
<tr>
<td>Davis Welding, 200 Industrial Engr. Bldg.</td>
<td>8-5</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Education, 660 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>8-5; 7-10</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>Health Center, 101 Hamilton Hall</td>
<td>8-10</td>
<td>8-10</td>
<td>8-5</td>
<td>2-10</td>
</tr>
<tr>
<td>Home Economics, 325 Campbell Hall</td>
<td>8-10</td>
<td>8-5</td>
<td>8-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Journalism, 200 Journalism Bldg.</td>
<td>8-10</td>
<td>8-5</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>4-12</td>
</tr>
<tr>
<td>Materials Engr., 197 Watts Hall</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Mathematics, 010 Mathematics Bldg.</td>
<td>8-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Mechanical Engineering, 2071 Robinson Lab.</td>
<td>8-5</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Microbiology, 7 Cockins Hall</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Music, 101 Hughes Hall</td>
<td>8-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Orton, 100 Orton Hall</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Pharmacy, 207 Pharmacy Bldg.</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Physics, 202 Physics Bldg.</td>
<td>8-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Pomerene-Women's Physical Education, 307 Pomerene Hall</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>Closed</td>
</tr>
<tr>
<td>Social Work, 400 Stillman Hall</td>
<td>8-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>2-6</td>
</tr>
<tr>
<td>Topaz, 114 Optometry Bldg.</td>
<td>8-5</td>
<td>8-5</td>
<td>8-12</td>
<td>Closed</td>
</tr>
<tr>
<td>Veterinary Medicine, 229 Sisson Hall</td>
<td>8-5; 7-10</td>
<td>8-5</td>
<td>9-12 noon</td>
<td>2-6</td>
</tr>
</tbody>
</table>
The Ohio State University Campus

November 1, 1966
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