



THE GRADUATE BULLETIN

1963-1964

University of Dayton

For more detailed information on any program, write to the proper Dean:

Very Rev. John A. Elbert, S.M.
Graduate Dean of Arts and Sciences
St. Mary's Hall—Room 204
Ext. 317

Office hours:
Monday through Friday—
8:00 a.m. to 12:00 p.m.
1:00 p.m. to 4:00 p.m.

Dr. Louis J. Faerber, S.M.
Dean of Education
Chaminade Hall—Room 213
Ext. 333

Office hours:
Monday through Thursday—
12:00 p.m. to 9:30 p.m.
Saturday—
8:00 a.m. to 12:30 p.m.

Dr. Maurice R. Graney
Dean of Engineering
St. Mary's Hall—Room 201
Ext. 217

Office hours:
Monday through Friday—
8:00 a.m. to 12:00 p.m.
1:00 p.m. to 4:00 p.m.

THE UNIVERSITY OF DAYTON
Dayton, Ohio

THE GRADUATE BULLETIN

Information
and
Announcements
1963-64

Graduate School of Arts and Sciences
School of Education
School of Engineering

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ACADEMIC CALENDAR

1963 - 1964

FIRST TERM

August	26....Monday	Registration (6:00 p.m.-9:00 p.m.)
August	27....Tuesday	Registration (6:00 p.m.-9:00 p.m.)
August	30....Friday	Day and Evening classes begin.
September	5....Thursday	Last day for late registration.
September	7....Saturday	Last day for change in schedules.
September	12....Thursday	Last day for withdrawal without record.
November	1....Friday	Feast of All Saints (no classes).
November	9....Saturday	Teacher Education Examination Program. (Application to be filed at least two weeks in advance.)
November	16....Saturday	Graduate Record Examinations. (Application should be filed at least two weeks in advance.)
November	27....Wednesday	Thanksgiving recess begins after last class.
December	2....Monday	Classes resume.
December	20....Friday	Term ends after last class.

SECOND TERM

January	6....Monday	Registration (6:00 p.m.-9:00 p.m.)
January	7....Tuesday	Classes begin.
January	14....Tuesday	Last day for late registration.
January	16....Thursday	Last day for change in schedules.
January	18....Saturday	Teacher Education Examination Program.
January	18....Saturday	Graduate Record Examinations. (Application to be filed at least two weeks in advance.)
January	21....Tuesday	Last day to withdraw without record.
March	24....Tuesday	Easter recess begins after last evening class.
April	1....Monday	All classes resume.
April	18....Saturday	Teacher Education Examination Program. (Applications to be filed at least two weeks in advance.)
April	25....Saturday	Graduate Record Examinations. (Applications to be filed at least two weeks in advance.)
May	1....Friday	Term ends after last evening class.
May	3....Sunday	Graduation Exercises.

ACADEMIC CALENDAR

THIRD TERM (First Half)

May	4.... Monday	Registration (6:00 p.m.-9:00 p.m.)
May	5.... Tuesday	All classes begin.
May	7.... Thursday	Ascension Thursday (no classes).
May	9.... Saturday	Last day for late registration.
May	11.... Monday	Last day for change in schedules.
May	12.... Tuesday	Last day to withdraw without record.
May	16.... Saturday	Teacher Education Examination Program. (Applications to be filed at least two weeks in advance.)
June	27.... Saturday	Term ends after last class.

PRE-SUMMER SPECIAL SESSIONS

June	6.... Saturday	Registration for Pre-Summer Special Sessions.
June	8-26....	Three credit hour Workshops and Courses.
June	15-26....	Two credit hour Workshops and Courses.

SIX-WEEK SUMMER SESSION

June	27.... Saturday	Registration for Regular Summer Session.
June	29	
	to	
August	7	Regular Summer Classes.
July	11.... Saturday	Graduate Record Examination. (Applications to be filed at least two weeks in advance.)
July	11.... Saturday	Teacher Education Examination Program.

POST-SUMMER SPECIAL SESSIONS

August	8.... Saturday	Registration for Post-Session.
August	10-21....	Two credit hour Workshops and Courses.

FIRST TERM—1964-65

August	25-26....	Registration for First Term—1964-65.
August	29.... Saturday	Classes begin at 8:00 a.m.

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GENERAL INFORMATION

RETROSPECT AND PROSPECT

The first organized program of graduate work at the University of Dayton was set up in the summer of 1939. It was modest in its beginnings, being limited to offerings in the fields of Education and English. This summer program was continued immediately in the regular school year of 1939-40, with an additional field in Philosophy. The faculty and students of the new unit formed a distinct division, having its own administration and its own objectives within the general framework of the educational policies of the University.

In the summer of 1942 the offerings of the Graduate Division were further extended to include the fields of Economics and Psychology, and in January of 1943 Political Science was added.

The content, policies, and scope of the graduate work at the University of Dayton grew out of the discussions and under the guidance of the Graduate Council of Ohio, particularly those held at Columbus in 1939, and out of the needs and demands of students in the Dayton area.

In this form the graduate division of the University carried on a successful program of work until 1949, when it was temporarily discontinued by the University on its own initiative, in order to devote all its facilities and personnel to the rapidly expanding undergraduate enrollment that flooded the campus after World War II.

During the period from 1945 to 1956, the University, therefore, concentrated its efforts on strengthening the undergraduate program in its facilities and faculty, having in view at all times the resumption of graduate work at the earliest possible date.

In 1956-57 a searching self-survey of the University was conducted, followed by an intensive program of self-improvement over the succeeding years, that gave ground for taking up again, with prudence and discretion, the kind of advanced work which the very name "University" connotes.

Accordingly, with clearance from the North Central Association of Colleges and Secondary Schools, and with the authorization of the State Department of Education of Ohio, the graduate work of the University of Dayton was reactivated in the summer of 1960, with three distinct programs in the field of Education, leading toward a Master of Science in Education degree.

Through a rigorous investigation by a Committee on Graduate Studies, specifically created for the purpose, the departments of Theology, History, Mathematics, and Chemistry were cleared for advanced work, and, in the summer of 1961, the Graduate School of Arts and Sciences was inaugurated to administer graduate programs leading to the Master of Arts and Master of Science degrees.

Finally, after careful study of local needs and the resources of the School of Engineering, the University further expanded its graduate offerings by the initiation of a program of study leading to the Master of Science in Engineering degree. This program was launched in the fall semester 1961-62.

STATEMENT OF PURPOSE

The ultimate purpose of graduate work at the University of Dayton is

identical with the general purpose of the University itself, namely, "to provide an academic atmosphere in which Christian principles of thought and action are the essential integrating and dynamic forces impelling the students to pursue, to cherish, and to disseminate what is true, good and beautiful."

The immediate objectives of a graduate school distinguish it from every other type or level of educational institution. Through its faculty, it seeks to create and maintain an academic atmosphere that is essential to graduate work. Its influence, therefore, extends first to its own membership, by promoting all forms of scholarly activity.

It labors further to give its students a thorough grasp of a chosen field of knowledge, special skills in methods of research, and sharpened powers of independent thought. Under the guidance and inspiration of a scholarly staff, students are given the constant use of library, laboratories, and other educational facilities. Above all, a graduate student is expected to bring marked initiative to his work and to assume full responsibility for the progress of his studies. The courses of instruction can be no more than the point of departure and a basis for wide reading and personal investigation.

The number of credit hours demanded for a graduate degree is merely the material requirement; the form and substance of graduate work are conceived as the mastery of a subject-matter with understanding of its relations to kindred branches of knowledge.

In short, graduate work, for the student at the University of Dayton, has for its purpose an integrated program of advanced study based on adequate undergraduate preparation in a specific field of study. It presupposes academic and personal maturity and makes more than average demand upon the initiative, the industry, and the scholarship of the candidates for an advanced degree.

ACCREDITATION

The University of Dayton is officially accredited by the following agencies:
The State of Ohio, Department of Education.

The North Central Association of Colleges and Secondary Schools.

The National Council for Accreditation of Teacher Education (for preparation of elementary and secondary school teachers).

The American Medical Association (for the Pre-Medical program).

The American Chemical Society (for Chemistry).

The Engineers' Council for Professional Development (for Civil, Electrical, and Mechanical Engineering curricula; also for programs of Electrical, Industrial, and Mechanical Technology in the Technical Institute).

The University holds institutional membership in the following professional education associations: The Association of American Colleges; The American Association of Colleges for Teacher Education; The American Council on Education; The American Society for Engineering Education; The International Council on Education for Teaching; The National Catholic Education Association; The National League for Nursing; The Ohio Association of Counselor Educators; The Ohio College Association; The Council on Social Work Education; The Ohio Council for the Advancement of Educational Administration; Ohio Council on Advanced Placement.

ACADEMIC INFORMATION

ADMISSION

Men and women graduates of approved colleges or universities with a bachelor's degree are eligible for admission. Applicants must have had an adequate undergraduate preparation in their proposed field of study and must show promise for pursuing higher studies satisfactorily.

APPLICATION FOR ADMISSION

Inquiries concerning admissions and requests for application forms should be addressed to the Dean of the school in which the applicant wishes to become a candidate for a degree, that is, the Dean of the Graduate School of Arts and Sciences, the Dean of the School of Education, or the Dean of the School of Engineering.

The application blank should be filled out completely and returned promptly to the proper dean.

The application for admission to graduate work should be submitted to the proper dean by August 1 for the fall term, by December 1 for the second term, by April 1 for the third term, and by June 1 for the second half of the split third term (or the regular 6 week summer session). It is the responsibility of the student that his application, with all the necessary supporting documents, be complete and in order before these dates, if he is to be admitted as a graduate student.

Qualified students from foreign countries may be admitted to graduate courses for which they are prepared, and, if found capable, to pursue a program leading to a degree. In addition to the information required of all students, the foreign student must submit with his application for admission:

1. A statement from a qualified official that the applicant can read, write, speak, and understand English sufficiently to pursue a program of graduate work in the field of his choice (exception being made for those whose native language is English).
2. A statement certified by a responsible person or group that his finances are sufficient to maintain him while in residence.
3. A statement by a responsible medical authority certifying to the student's physical, mental, and emotional balance adequate for the work he intends to undertake.

CLASSIFICATION OF STUDENTS AFTER ADMISSION

Regular Students

Regular students are those who have met satisfactorily all general and specific requirements of the various schools in which the student is accepted and of the Department in which he is working.

Special Students

Special students are those who belong to any of the following categories:

1. Those on conditional status, that is to say, applicants who must fulfill some prerequisite imposed by the specific School and Department, before their admission to regular status.
2. Non-programmed students who fulfill all degree requirements and are

taking courses for credit, but are not seeking a degree.

3. Auditors, that is, properly qualified students who wish to follow graduate courses without working toward a degree and without credit. Auditors may be admitted to graduate courses with the permission of and under the conditions required by the Dean. Tuition for auditors is the same as for regular students.
4. Those properly qualified students working toward a degree in another institution who are authorized by the Dean of that institution to take specific courses at the University of Dayton, for transfer of credit. Such students must satisfy all the registration requirements in the given course that are mandatory for students working toward a degree at the University of Dayton.

DEGREES

The University of Dayton offers advanced studies leading to a degree of *Master of Arts*, *Master of Science*, *Master of Science in Education*, and *Master of Science in Engineering*.

SPECIFIC REQUIREMENTS FOR ALL DEGREES

Course Requirements

To date the Schools of Arts and Sciences, Education, and Engineering offer programs variously distributed in time, leading to the Master's degree. Specific requirements are listed in those sections of this Bulletin which describe these degrees. Each School also provides through a particular course-offering, a philosophical orientation to the over-all intent of the graduate programs in order to insure correlation with the general purposes of the University.

Residence Requirements

Residence requirements at the University of Dayton call for the equivalent of time normally demanded by the successful completion of twenty-four credit hours of graduate work. During the initial years of operation of any program, exceptions to this limitation may be made with the approval of the Dean concerned.

Time Limit

All requirements for a Master's degree must be satisfied within five calendar years from the time of admission to candidacy.

Graduate Work in Other Institutions

A maximum of six semester credit hours of graduate work may be allowed in transfer from other accredited institutions provided the work be of "B" grade quality or better. During the initial years of operation of any program, exceptions to this limitation may be made with the approval of the Dean concerned.

Registration of Undergraduate Students for Graduate Courses

An undergraduate student may register for graduate courses only under the following conditions:

1. Approval must be obtained from the Graduate Committee of the particular Graduate School offering the course.

2. The student must be within fifteen (15) semester hours of completing the credit hour requirements for graduation in his undergraduate program.
3. The student's total load must not exceed twenty-one (21) hours, with the graduate courses counting as a double load.
4. Credit obtained for the graduate courses may not be counted toward two degrees. At the time the student is admitted to his graduate program, he may apply for transfer of such graduate credit as had not been applied to the undergraduate degree.
5. The graduate tuition rates must be paid when registering in graduate courses.

Language Requirement

A reading knowledge of a foreign language may be required for a Master's degree. Requirements for the individual degrees should be consulted. Language courses for the convenience of graduate students can be had by special arrangement on a class or tutorial basis, through the Director of the Evening Classes. No graduate credit is allowed for the fulfillment of these language requirements.

Grades and Examinations

Marks are expressed on the student's permanent record by the following letter grades:

A — Excellent	4 quality points
B — Good	3 quality points
C — Passing	2 quality points
F — Failing	0 quality points
I — Incomplete	0 quality points
W — Withdrawal	0 quality points

Admission to Candidacy

It is the student's responsibility to apply for admission to candidacy. Application blanks may be obtained from the Dean's office. The most important consideration in the admission of a student to candidacy is the qualitative standard of the student's record in his graduate work. Applicants who are deemed unqualified at this point will be advised to discontinue their program.

Comprehensive Examinations

A comprehensive examination is required by all Schools for the Master's degree. The examination may be oral or written, or both. Applications for all comprehensive examinations must be approved by the Chairman of the student's major department at least two weeks prior to the examination. Students who fail in a comprehensive examination may on the recommendation of the Chairman of the Department, be admitted to a second examination, but not sooner than the next semester or summer session, and no later than one calendar year. If a second examination is unsatisfactory, no further trial can be admitted.

Thesis

In those departments requiring a thesis or an equivalent project, the work

may not be undertaken without the approval of the Departmental Chairman or of an advisor delegated by the Dean; both the form and the content of the thesis must have the approval of three members of the Department, including the faculty advisor and the Chairman.

Three final copies of an approved thesis in correct form must be submitted by the student as designated by the office of the Dean.

Theses may not be published, in whole or in part, without the approval of the Administration of the University.

Withdrawals from Courses

Any withdrawal or change of course after the last date of late registration is allowed only with written permission. Any change of course or withdrawal must be filed with each office that has a record of the student's admission form.

Use of Advanced Undergraduate Courses in the Graduate Program

1. Not more than six semester credit hours of the student's total graduate program may be selected from designated upper-division (300-400) courses.
2. When upper-division courses are permitted for credit on the graduate level, the work done in such courses shall be of "B" grade or better.

REGISTRATION

Registration is required each semester or session of all students who enter course work for credit; and of all students who wish to audit courses. Graduate students register on the regular registration days on the dates and at the times assigned to the evening school. The written approval of the proper Dean is required for admission to any course.

LIBRARY RESOURCES

The Albert Emanuel Library houses all *general holdings* plus the concentration of titles in the field of Electrical Engineering.

Graduate students have the privilege of open access to the stacks in the Albert Emanuel Library upon presentation of their registration card to the librarian.

Specialized libraries are also open to graduate students as follows:

1. Departmental Libraries
 - a. Biology, Mathematics, Physics, Psychology . . . Sherman Hall Library, third floor.
 - b. Chemistry, and Chemical, Mechanical, and Civil Engineering . . . Wohlleben Hall Library, third floor.
 - c. Mariology . . . Marian Library on second floor of Albert Emanuel Library.
 - d. Education . . . Curriculum Library on second floor of Chaminade Hall.
2. Other Libraries in the Area:

There are several other libraries in the area available to graduate students. These include the public libraries, the Engineers' Club, Miami Valley Hospital, certain local industries, certain areas at

Wright-Patterson Air Force Base, and the libraries of the affiliated institutions.

SEPARATION FROM THE UNIVERSITY

Separation from the University may follow upon graduation, withdrawal by the student, or dismissal.

The admission of candidates, their continuance and status, the awarding of academic credits, and the granting of a degree, are all subject to the ordinary regulatory powers of the University. It reserves the right to cancel, at its discretion, any of these privileges for reasons considered sufficient by its own governing body.

The various Deans reserve the right to review at intervals the work of its graduate students, and, in consultation with the Chairman of the Department, to recommend that those who are not doing work of a high caliber be advised to discontinue courses leading to a degree.

The disciplinary authority of the University is vested in the President by right, and in the Deans and other officers on whom jurisdiction may be conferred for specific cases and in restricted areas.

For transcripts of records, application should be made to the Office of the Registrar of the University. Transcripts are issued only as requested by the student. In normal periods of the calendar year, excluding principally registration or examination periods, a time allowance of a week should be made for the preparation of a transcript. The first copy requested after graduation will be issued gratis. For each additional record, a fee of \$1.00 will be charged.

FINANCIAL INFORMATION

GENERAL REGULATIONS

It is a general rule of the University that tuition and laboratory fees are payable before attendance at any instructional or laboratory period, unless exceptional arrangements have been made with the Business Manager of the University and cleared by him in writing through the office of the Treasurer.

All fees are subject to change at the discretion of the Trustees of the University.

Applications for refunds on any kind of fees will be given consideration only within the limits of time and amount set by the general rules of the University.

Where voluntary withdrawal, dismissal, illness, physical disability, or any extraordinary contingencies require a student to leave, he must notify the Dean of the School in which he is enrolled.

VETERANS

Veterans admitted to graduate courses must submit with their formal registration the Certificate of Eligibility for studies by the V.A. under Title 38, United States Code. Lacking the necessary document applicable to his case, the prospective student must register as a non-veteran and pay the required tuition and fees.

Application for benefits under Title 38, United States Code, is made at the Veterans Administration in Cincinnati. Advice and consultation for veterans may be had at the Veterans Service Office of the University of Dayton in St. Mary's Hall.

TUITION AND FEES

Tuition for Courses Taken for Undergraduate Credit

Per registered credit hour for lecture course.....	\$21.00
Per clock hour for laboratory course.....	\$14.00

Tuition for Courses Taken for Graduate Credit

Per registered credit hour for lecture course.....	\$24.00—\$30.00
Per clock hour for laboratory course.....	\$18.00

Fees

Registration	\$ 2.00
Penalty for late registration.....	\$ 5.00
A second comprehensive examination.....	\$25.00
A second language examination.....	\$10.00
A deferred semester examination	\$ 5.00
Graduation	\$25.00
Transcripts: First transcript	No charge
Each subsequent transcript	\$ 1.00

FELLOWSHIPS, SCHOLARSHIPS, ASSISTANTSHIPS

A limited number of Research Fellowships and of Research or Teaching Assistantships are available to students who are qualified. These carry a stipend and tuition refund provision which enables the recipients to complete the requirements for the degree in a two-year period.

Detailed information and forms for making application may be secured from the Dean of the School in which study is to be done.

GRADUATE SCHOOL OF ARTS AND SCIENCES

The objectives of Graduate work in the Arts and Sciences coincide with the general aims and philosophy of education that characterize the University of Dayton. Specific objectives and requirements of the several departments are presented in the following programs:

I. THE MASTER'S PROGRAM IN BIOLOGY

1. STATEMENT OF PURPOSE:

The general objective of graduate work in the Department of Biology is to give the student a basis for a thorough understanding and appreciation of his chosen discipline. Specifically, the graduate program is intended:

- a. To enable the student to pursue studies toward more advanced degrees.
- b. To qualify the student for industrial and governmental careers in the field of Applied Biology.
- c. To equip teachers for scholarly competence in Biology.

2. SPECIFIC REQUIREMENTS OF THE DEPARTMENT:

a. Undergraduate prerequisites:

An applicant is admitted if the admissions committee of the Department is satisfied that the applicant is fully qualified to undertake the degree program.

The following undergraduate prerequisites are recommended:

- (1) A total of twenty-four to thirty credit hours in the field of Biology, of which eighteen to twenty-four credit hours must correspond to the Department's 300-400 course designation.
- (2) Two semesters each of General Chemistry and Organic Chemistry.
- (3) Two semesters of Physics.
- (4) Two semesters of Mathematics, usually Algebra and Trigonometry.

The graduate student may be required to fulfill undergraduate prerequisites before he is admitted to graduate courses for which, in the judgment of the Departmental Committee, the student is not qualified.

b. Seminars:

Graduate students are required to participate in seminars conducted by the Department of Biology. A maximum of two graduate credit hours will be permitted for these seminars.

c. Requirements for the Master's Degree in Biology:

- (1) Thirty credit hours of acceptable course work and research. The graduate student is permitted three to six credit hours for research.
- (2) The graduate student must have included in his academic record, either at the undergraduate or graduate level, courses in Genetics, Physiology, Microbiology and Histology.
- (3) Pro-Seminar: Will be offered at regular intervals to satisfy University requirements; may be replaced by Phl 505: Problems in the Philosophy of Science.
- (4) A general written examination following the completion of a major portion of the course requirements.
- (5) The presentation and acceptance of a thesis based on the student's