

Record of the
University of North Carolina
at Chapel Hill

February 3, 1972



THE SCHOOL OF PHARMACY

1972-1973 Issue



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THE UNIVERSITY OF NORTH CAROLINA

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JOHN P. KENNEDY, JR., S.B., B.A., M.A., J.D. - Secretary of the University

By the act of the General Assembly of 1931 the University of North Carolina at Chapel Hill, the North Carolina College for Women at Greensboro, and the North Carolina State College of Agriculture and Engineering at Raleigh were merged into The University of North Carolina.

By the act of the General Assembly of 1963 effective July 1, 1963, The University of North Carolina comprised: The University of North Carolina at Chapel Hill, The University of North Carolina at Greensboro, and North Carolina State of The University of North Carolina at Raleigh.

By the act of the General Assembly of 1965 effective July 1, 1965, The University of North Carolina comprised: The University of North Carolina at Chapel Hill, The University of North Carolina at Greensboro, The University of North Carolina at Charlotte, and North Carolina State University at Raleigh.

By the act of the General Assembly of 1969 effective July 1, 1969, The University of North Carolina comprises: The University of North Carolina at Chapel Hill, The University of North Carolina at Asheville, The University of North Carolina at Charlotte, The University of North Carolina at Greensboro, The University of North Carolina at Wilmington, and North Carolina State University at Raleigh.

By The Act to Consolidate the Institutions of Higher Learning in North Carolina of October 1971, the General Assembly merged the nine regional universities and the School of the Arts into the University of North Carolina. Planning for the merger began on January 1, 1972 and on July 1, 1972, the enlarged multicampus university of sixteen component institutions will begin to operate under a new Board of Governors.

The major purpose of the merger is that of providing for the efficient and effective governance of higher education in North Carolina.

Each institution has its own faculty and student body, and each is headed by a chancellor as its chief administrative officer. The chancellors of the component institutions are responsible to the President as the principal executive officer of The University of North Carolina.

FEBRUARY 3, 1972

NUMBER 772

**RECORD OF THE UNIVERSITY
OF NORTH CAROLINA
AT CHAPEL HILL**

**THE ONE HUNDRED AND
SEVENTY-EIGHTH SESSION**

THE SCHOOL OF PHARMACY

Announcements for the Session 1972-1973

**THE UNIVERSITY OF NORTH CAROLINA PRESS
CHAPEL HILL, N. C.**

1972

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1973

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UNIVERSITY CALENDAR

1972-1973

SUMMER SESSION, 1972

First Term

May 29-30, Monday-Tuesday

Opening days: Residence Halls open. Counseling of students.

May 31, Wednesday

Registration.

June 1, Thursday

First day of classes.

June 5, Monday

Last day for late registration.

July 3, Monday

Last day of classes for first term.

July 4, Tuesday

Holiday- Reading Day.

July 5-6,

Examinations according to schedule.

Wednesday-Thursday

Second Term

July 7, Friday

Opening day: Residence Halls open. Counseling of students.

July 10, Monday

Registration.

July 11, Tuesday

First day of classes.

July 12, Wednesday

Last day for late registration.

August 12, Saturday

Reading Day.

August 14-15,

Examinations according to schedule.

Monday-Tuesday

FALL SEMESTER, 1972

August 23, Wednesday

Fall Semester opens.

August 24-25,

Freshman orientation, testing.

Thursday-Friday

August 28-30,

Registration.

Monday-Wednesday

August 31, Thursday

First day of classes.

November 22,

Thanksgiving vacation begins.

Wednesday, 1:00 P.M.

November 27,

Instruction resumed.

Monday, 8:00 A.M.

December 8, Friday

Last day of classes.

December 9-11,

Reading days.

Saturday-Monday

December 12-21,

Final examinations.

Tuesday-Thursday

SPRING SEMESTER, 1973

January 8, Monday	Spring Semester opens.
January 9, Tuesday	Registration.
January 10, Wednesday	First day of Classes.
March 12, Monday, 8:00 A.M.	Spring vacation begins.
March 19, Monday 8:00 A.M.	Instruction resumed.
April 26, Thursday	Last day of classes.
April 27-29, Friday-Sunday	Reading days.
April 30-May 9, Monday-Wednesday	Final examinations.
May 13, Sunday	Commencement.

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

NELSON FEREBEE TAYLOR, LL.B., Chancellor

CLAIBORNE STRIBLING JONES, Ph.D., Assistant to the Chancellor

CORNELIUS OLIVER CATHEY, Ph.D., Dean of Student Affairs

JOSEPH COLIN EAGLES, JR., J.D., Vice Chancellor, Business and Finance

LILLIAN YOUNGS LEHMAN, Ph.D., Registrar and Director of Institutional Research

LYLE VINCENT JONES, Ph.D., Dean of the Graduate School and Vice Chancellor

CECIL GEORGE SHEPS, M.D., Vice Chancellor, Health Sciences

JOHN CHARLES MORROW III, Ph.D., Provost

CHARLES MILTON SHAFFER, B.S., Comm., Director of Development Affairs

PHARMACY FACULTY AND STAFF

Administration

GEORGE PHILIP HAGER (1966), Ph.D., Dean of the School of Pharmacy,
Professor of Medicinal Chemistry

LEROY D. WERLEY, JR. (1967), M.H.A., Assistant Dean, Student Affairs and
Assistant Professor of Pharmacy; Chairman of Pharmacy Administration
Division

DAVID R. WORK (1969), J.D., Assistant Dean, Fiscal Affairs and Assistant Pro-
fessor of Pharmacy Administration

GLORIA R. MANLY, Librarian

NELLE B. BARBOUR, Administrative Secretary

LINDA R. GOSWICK, Secretary to the Dean

GAIL R. MORIARTY, Secretary-Student Affairs

REBECCA D. STEWART, Accounting Clerk

RITA B. JACKSON, Clerical

Division of Pharmaceutics

ALBERT M. MATTOCKS (1966), Ph.D., Professor of Pharmacy and Chairman of
Biopharmaceutics Division

MILTON ROBERT BLUM (1972), Assistant Professor of Pharmacy

NORRIS W. DUNHAM (1971), Ph.D., Assistant Professor of Pharmacy

WILLIAM E. HALL (1966), Ph.D., Assistant Professor of Pharmacy

JAMES L. OLSEN, (1969), Ph.D., Assistant Professor of Pharmacy

CLAUDE U. PAOLONI (1967), B.S., Assistant Professor of Hospital Pharmacy
and Director of Continuing Education

WILLIAM WEST TAYLOR (1952), Ph.D., Assistant Professor of Hospital Pharmacy

HERMAN O. THOMPSON (1946), Ph.D., Professor of Pharmacy

EDWARD J. TRIGGS (1970), Ph.D., Assistant Professor of Pharmacy

B. WESLEY HADZIJA (1971), Ph.D., Instructor

JAMES K. WILLIAMS (1971), B.S., Instructor

MICHAEL G. WILLIAMS (1971), B.S., Instructor

SHERMAN RIGGSBEE, Research Aide

MITZI DARDEN, Clerical

Division of Medicinal Chemistry & Pharmacognosy

- CLAUDE PIANTADOSI, (1957), Ph.D., Professor of Medicinal Chemistry and Associate Professor of Biochemistry and Chairman of Medicinal Chemistry Division
- GEORGE H. COCOLAS (1958), Ph.D., Associate Professor of Medicinal Chemistry
- GEORGE P. HAGER (1966), Ph.D., Professor of Medicinal Chemistry
- KUO-HSIUNG LEE (1970), Ph.D., Assistant Professor of Medicinal Chemistry
- LARRY J. LOEFFLER, (1971), Ph.D., Assistant Professor of Medicinal Chemistry
- FRED T. SEMENIUK (1947), Ph.D., Professor of Medicinal Chemistry
- JACK K. WIER (1961), Ph.D., Associate Professor of Pharmacognosy
- IRIS H. HALL (1970), Ph.D., Instructor
- KHALID S. ISHAQ (1969), Ph.D., Instructor
- HIROSHI FURUKAWA, Postdoctoral Fellow
- JOHN L. IRVINE, Postdoctoral Fellow
- GRACE STEWARD, Postdoctoral Fellow
- WAYNELL B. MORRIS, Clerical

Division of Pharmacy Practice

- FRED M. ECKEL (1966), M.S., Director, Pharmacy Services at N. C. Memorial Hospital and Assistant Professor of Hospital Pharmacy
- ROBERT J. ALLEN (1970), M.S., Instructor
- STEVE N. ALMOND (1971), B.S., Instructor
- STEPHEN M. CAIOLA (1968), M.S., Assistant Professor
- BETTY M. DANIELS (1970), M.S., Instructor
- J. HEYWARD HULL (1970), M.S., Instructor
- WILLIAM H. PASCHALL (1971), B.S., Instructor
- CHARLES C. PULLIAM, (1970), M.S., Instructor
- BENJAMIN O. WILLIAMS (1971), M.S., Instructor
- JANICE M. HANKS, Clerical
- CLARA T. ISLEY, Clerical

Division of Pharmacy Administration

- LEROY D. WERLEY, JR. (1967), M.H.A., Assistant Professor of Pharmacy, Chairman of Pharmacy Administration Division
- LEONARD BERLOW (1970), M.H.A., Director of Public Relations and Drug Abuse Education; Assistant Professor of Pharmacy Administration
- MELVIN A. CHAMBERS (1959), Ph.D., Professor of Pharmacy Administration
- PAUL D. OLEJAR, A.B., Director, Drug Information and Lecturer
- DAVID R. WORK (1969), J.D., Assistant Professor of Pharmacy Administration

Joint Members of Faculties — School of Medicine and School of Pharmacy

- WILLIAM L. DEWEY (1969), Ph.D., Assistant Professor of Pharmacology
- LOUIS S. HARRIS (1966), Ph.D., Professor of Pharmacology
- ARTHUR J. McBAY (1969), Ph.D., Associate Professor of Pharmacology
- ROBERT TURK, Ph.D., Instructor In Pathology

Adjunct Members of Faculty

WILLIAM H. BRINER (1970), B.S., Adjunct Assistant Professor of Pharmacy
ANTHONY V. COLUCCI, Ph.D., Adjunct Associate Professor of Medicinal
Chemistry
DONALD C. McLEOD, M.S., Adjunct Instructor of Clinical Pharmacy
E. O. OSWALD, Adjunct Assistant Professor of Medicinal Chemistry
BARBARA ROTH, Ph.D., Adjunct Professor of Medicinal Chemistry
MILTON W. SKOLAUT, Adjunct Assistant Professor of Hospital Pharmacy
F. L. SNYDER, Adjunct Professor of Medicinal Chemistry
MONROE E. WALL, Adjunct Professor of Medicinal Chemistry

Lecturers

L. D. FONDA—Pharmacy Administration
H. C. McALLISTER—Pharmacy Administration

Stockroom

CLIFTON I. STONE—Stockroom Manager
LEROY CLARK
INYOUNG LA — Custodian

Drug Abuse Education Program

LEONARD BERLOW, Director
STANLEY E. TUNNELL, Student Director
MONA B. REDDICK, Assistant to Director
JUDITH SCHENCK, Clerical

Drug Product Program

JAMES L. OLSEN, Director; NORRIS W. DUNHAM, Associate Director; WILLIAM
W. TAYLOR, JAMES K. WILLIAMS

Research & Graduate Instruction Program

CLAUDE PIANTADOSI, Director; WAYNELL MORRIS, Clerical

Extension Program

CLAUDE U. PAOLONI, Director; LEONARD BERLOW, Associate Director;
MICHAEL G. WILLIAMS, JUDITH SCHENCK, Clerical

Clinical Pharmacy Program

STEPHEN M. CAIOLA, Director; ROBERT J. ALLEN, STEVE N. ALMOND,
J. HEYWARD HULL, WILLIAM H. PASCHALL, CHARLES C. PULLIAM,
BENJAMIN O. WILLIAMS, JANICE HANKS, CLARA ISLEY

Institutional and Clinical Pharmacy Extension Program

CHARLES C. PULLIAM

Drug Information Program

PAUL D. OLEJAR, Director; BENJAMIN O. WILLIAMS

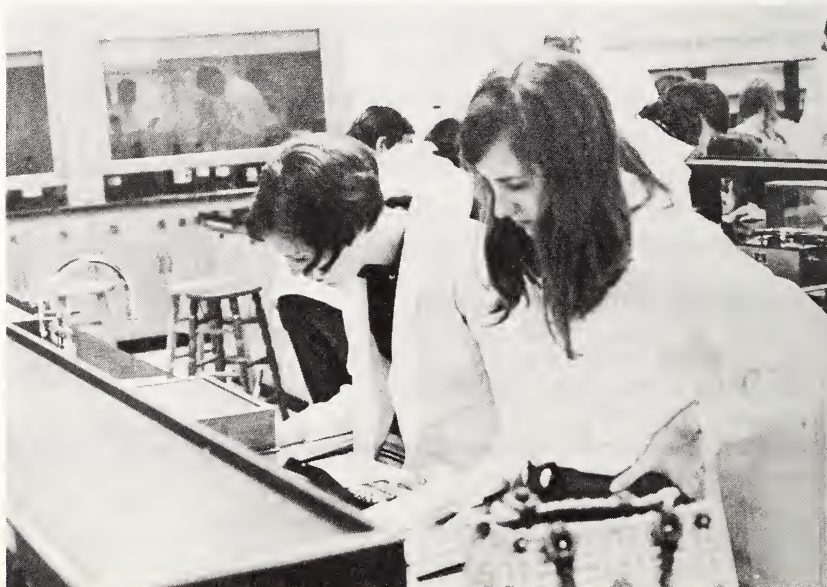
THE PHARMACY PROFESSION

Pharmacy is a unique profession with an unlimited future. Pharmacists are vital members of this nation's essential health team. Expanding opportunities exist in the research, preparation, preservation and dispensing of drugs and pharmaceuticals.

Each year the 74 schools of pharmacy in the United States graduate close to 4,300 pharmacists. This number is far from adequate to fill existing needs. In fact, it is estimated that the *minimum* requirement is at least a thousand more every year. North Carolina has an acute shortage of pharmacists due to the number of single pharmacist store operations and the expansion of other areas of specialization, such as manufacturing and hospital pharmacy practice.

What about women in pharmacy? It is estimated that 9% of all pharmacists and 20% of all pharmacy students in the United States are women. This is a rewarding profession offering excellent working conditions and salaries. At the School of Pharmacy of the University of North Carolina, 31% of its students are women — which exceeds the national average.

Students of all races are equally welcome in the University of North Carolina. Persons of all racial backgrounds may apply for



and accept admission, confident that the policy and regular practice of the institution will protect them from discrimination.

Should You Be A Pharmacist?

Well, that depends. Do you have a very real and sincere interest in people? This is essential since the pharmacist works as a member of the health team in intimate contact with people — both sick and well. *The main purpose of this specialty is the relief of human suffering and the advancement of better health for all.*

Personal qualifications are important before considering a pharmacy career. You should have ability, aptitude and interest in science. This is quite natural since a pharmacist deals with drugs and chemicals and the ways these affect the human body. Do you strive for accuracy and order? These are other desirable attributes of the person who chooses pharmacy as a professional career.

Of course, you should have outstanding personal characteristics including high morals and good judgment.

THE UNIVERSITY

The University of North Carolina, the first state university in the United States to open its doors to students, is situated at Chapel Hill in the beautiful Piedmont section of hills and forests. Its environment of natural beauty and simple culture, of age and traditions, is impressive. Chapel Hill is ten miles from Durham, thirty miles from Raleigh, and fifty miles from Greensboro. It may be reached by bus lines which maintain frequent schedules from these three points.

THE SCHOOL OF PHARMACY

Definition Of Purposes

The University was established in obedience to the first Constitution of the State which was adopted in December, 1776, and to the Charter which was granted by the General Assembly in 1789. A clause of section 41 of the Constitution declared that "all useful learning shall be duly encouraged and promoted in one or more Universities." In keeping with this Constitutional directive,

the School of Pharmacy has the following purposes: to preserve, augment, criticize and transmit pharmaceutical knowledge; to advance and create pharmaceutical knowledge; to aid in conserving or improving the health and welfare of the public through influencing the patient, the health practitioner, or their common environment.

A thorough program of undergraduate instruction, graduate instruction, continuing education, and research is maintained. Every effort is made in the classrooms and laboratories, and through student organizations to develop character, personality, and integrity to the purposes of responsible citizenship and leadership.

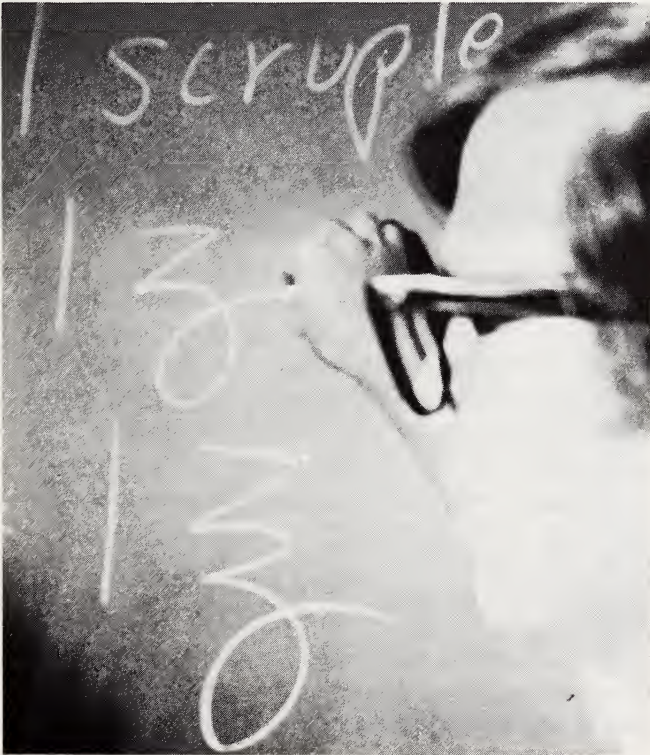
General Statement

The School of Pharmacy was established as an academic unit of The University of North Carolina in 1897 in response to urgent requests from the pharmacists of North Carolina. After many years in Howell Hall (named in honor of the School's first dean, Edward Vernon Howell), the School now occupies a modern, well-equipped building, Beard Hall (dedicated in 1960 and named in honor of the School's second dean, John Grover Beard). The School of Pharmacy is located in a medical center on the Chapel Hill campus and, with the Schools of Medicine, Dentistry, Public Health, and Nursing, it is a unit of the University's Division of Health Sciences.

The School benefits from excellent resources, both on and off campus, required for a center of excellence for pharmaceutical education, research and service.

In its educational program, emphasis is given to the curriculum required for the Bachelor of Science in Pharmacy degree (B.S. in Pharm). A five-year curriculum for this degree became mandatory in all schools of pharmacy starting in 1960 through actions taken by the American Association of Colleges of Pharmacy and the National Association of Boards of Pharmacy. This curriculum is designed and administered in accordance with the current and changing demands for pharmaceutical services in communities and institutions. The School's B.S. in Pharm. curriculum is up-to-date. It is broad and deep with respect to general education and professional principles and practices. The curriculum is distinctively interdisciplinary with major emphasis on physical

sciences, biological and biomedical sciences, pharmaceutical sciences and professional studies requiring substantial preliminary training in physical and biological sciences. It is administered with the flexibility necessary to accommodate the varying aspirations of individual students and, at the same time, with adequate rigidity to qualify the students as candidates for licensure as Registered Pharmacists and in every way for the important and expanding role of the pharmacist as a health professional. The graduate of the B.S. in Pharm. degree curriculum is qualified and motivated for the practice of clinical pharmacy (community pharmacy and institutional pharmacy), for professional and technical careers in industry and government, and for further study leading to advanced degrees in the pharmaceutical sciences and related physical, biological, and biomedical sciences.



The School offers M.S. and Ph.D. degree candidates and post-doctoral participants coursework and research training and experience in the pharmaceutical sciences, especially pharmacy

(biopharmaceutics, physical pharmacy, and hospital pharmacy) and medicinal chemistry.

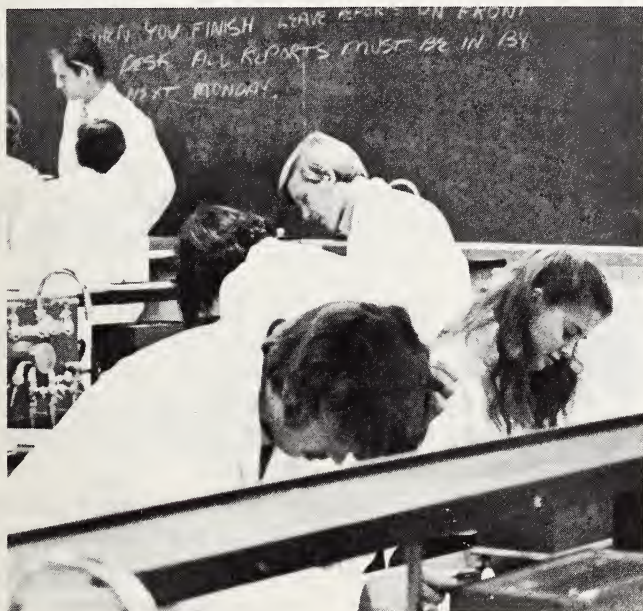
The School also engages in the continuing education of pharmacists and pharmaceutical scientists and technologists, supporting their efforts to adapt to an expanding and dynamic science and technology.



The faculty, staff and students of the School of Pharmacy are actively involved in research and other scholarly pursuits in the professional, scientific and technological aspects of pharmacy. Through their work they contribute to the knowledge characteristic of the pharmaceutical sciences, the recording and communication thereof, and its application in the educational and service phases of the School's programs.

In the third, or service, phase of the School's three-fold mission, the faculty and staff promote the disciplines and support the missions of the pharmacist in clinical practice and the pharmaceutical scientist in industry, government, or elsewhere. This is done particularly by motivating and providing for continuing education at all levels, by innovating and contributing to the development of expanding pharmaceutical services, by engaging in the exploratory research that leads to new and improved pharmaceutical services and new drug products, and in the practical application of the results of their work by the profession and the industry, by contributing to good relations of the pharmacy profession and the pharmaceutical industry with the public and

with other health professionals and, in general, by initiating and assisting the programs that will be beneficial to the pharmaceutical services required by a modern society.



The School of Pharmacy was admitted to membership in the American Association of Colleges of Pharmacy in 1917. This organization was formed for the promotion of sound educational programs and productive research and scholarly efforts in pharmacy and the pharmaceutical sciences. It maintains high standards for membership based on the quality of the faculty of its member institutions and the excellence of their instructional programs and their resources for education and research.

The School of Pharmacy of The University of North Carolina is accredited by the American Council on Pharmaceutical Education. The School is also accredited by all State examining boards.

Students are admitted to a four-year program of professional studies in the School of Pharmacy upon completion of at least one year (the prepharmacy year) of collegiate work in the General College of the University of North Carolina or in any accredited liberal arts college (1-4 program). Students who present two or more years of accredited collegiate work (including the required courses) before admission to the School of Pharmacy usually can

complete their professional training in three years (2-3 program). As of January 1, 1938, the American Association of Colleges of Pharmacy stipulated for its member schools that students transferring from a college other than another school of pharmacy must spend a minimum of three years in the School of Pharmacy for the B.S. in Pharm. degree. Each application for admission must be approved by the Director of Admissions of the University. Application should be filed as early as possible, preferably before February 1st of the calendar year in which the student desires admission. Applications received later in the year will be given every consideration within the limits imposed by the number of students admitted at an earlier date.

For students who transfer to the School of Pharmacy from another accredited School of Pharmacy, the minimum residence required for the degree is one academic year, that is, two semesters within a twelve month period. Such students must complete at least thirty semester hours while in residence in the School of Pharmacy.

Graduate degrees offered through the School of Pharmacy are administered by the Graduate School of the University of North Carolina at Chapel Hill. These degrees include the Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) in pharmacy, medicinal chemistry, and hospital pharmacy.

The School of Pharmacy is considering a post-baccalaureate professional education and training program leading to an advanced professional degree in the fall of 1970 or 1971. This program will involve professionally oriented courses in different specialty areas.

Pharmaceutical History

On July 1, 1957, the North Carolina Pharmaceutical Research Foundation, Inc., established a Research Historianship in the School of Pharmacy to develop the historical records of total pharmacy in North Carolina. Extensive files pertaining to pharmacy and pharmacists are maintained.

"The School of Pharmacy of the University of North Carolina: A History" by Alice Noble was published in 1961 by The University of North Carolina Press. Copies may be obtained from the North Carolina Pharmaceutical Research Foundation, Inc., c/o School of Pharmacy, The University of North Carolina at Chapel Hill.

GENERAL INFORMATION

Student Government

The student body of the University is self-governing. The functions of this government are both disciplinary and administrative. These functions are exercised by executive, legislative, and judicial branches of representative government under a student constitution.

Policies, Procedures, and Disciplinary Actions In Cases of Disruption of Educational Process

The following statement has been incorporated in the Bylaws of the Board of Trustees of the University, and is quoted for the information of all members of the University Community.

Section 5-1. Policies Relating to Disruptive Conduct

The University of North Carolina has long honored the right of free discussion and expression, peaceful picketing and demonstrations, the right to petition and peaceably to assemble. That these rights are a part of the fabric of this Institution is not questioned. They must remain secure. It is equally clear, however, that in a community of learning willful disruption of the educational process, destruction of property, and interference with the rights of other members of the community cannot be tolerated. Accordingly, it shall be the policy of the University to deal with any such disruption, destruction or interference promptly and effectively, but also fairly and impartially without regard to race, religion, sex or political beliefs.

Section 5-2. Definition of Disruptive Conduct

(a) Any faculty member (the term "faculty member", wherever used in this Chapter V, shall include regular faculty members, full-time instructors, lecturers, and all other persons exempt from the North Carolina State Personnel System [Chapter 126 of the General Statutes as amended] who receive compensation for teaching, or other instructional functions, or research at the University), any graduate student engaged in the instructional program, or any student who, with the intent to obstruct or disrupt any normal operation or function of the University or any of its component institutions, engages, or incites others to engage, in individual or collective conduct which destroys or significantly damages any University property, or which impairs or threatens impairment of the physical well-being of any member of the University community, or which, because of its violent, forceful, threatening or intimidating nature or because it restrains freedom of lawful movement, otherwise prevents any member of the University community from conducting his normal activities within the University, shall be subject to prompt and appropriate disciplinary action, which may include suspension, expulsion, discharge or dismissal from the University.

The following, while not intended to be exclusive, illustrate the offenses

encompassed herein, when done for the purpose of obstructing or disrupting any normal operation or function of the University or any of its component institutions: (1) occupation of any University building or part thereof with intent to deprive others of its normal use; (2) blocking the entrance or exit of any University building or corridor or room therein with intent to deprive others of lawful access to or from, or use of, said building or corridor or room; (3) setting fire to or by any other means destroying or substantially damaging any University building or property, or the property of others on University premises; (4) any possession or display of, or attempt or threat to use, for any unlawful purpose, any weapon, dangerous instrument, explosive, or inflammable material in any University building or on any University campus; (5) prevention of, or attempt to prevent by physical act, the attending, convening, continuation or orderly conduct of any University class or activity or of any lawful meeting or assembly in any University building or on any University campus; and (6) blocking normal pedestrian or vehicular traffic on or into any University campus.

(b) Any person engaged in the instructional program who fails or refuses to carry out validly assigned duties, with the intent to obstruct or disrupt any normal operation or function of the University or any of its component institutions, shall be subject to prompt and appropriate disciplinary action under this Chapter V if (but only if) his status is such that he is not subject to the provisions of Section 4-3 of Chapter IV.

Section 5-3. Responsibilities of Chancellors

(a) When any Chancellor has cause to believe that any of the provisions of this Chapter V have been violated, he shall forthwith investigate or cause to be investigated the occurrence, and upon identification of the parties involved shall promptly determine whether any charge is to be made with respect thereto.

(b) If he decides that a charge is to be made, he shall, within thirty (30) days after he has information as to the identity of the alleged perpetrator of the offense but in no event more than twelve (12) months after the occurrence of the alleged offense, (i) refer the case to the appropriate existing University judicial body, or (ii) refer the matter to a Hearing Committee drawn from a previously selected Hearings Panel which, under this option, is required to implement action for violation of Section 5-2 (a) or (b) of this Chapter. If the case is referred to an existing University judicial body under (i) above, the procedural rules of that body shall be followed, and subsections (c) through (f) below shall not be applicable. If the matter is referred to a Hearing Committee under (ii) above, the procedural rules prescribed in subsections (c) through (f) below shall be followed.

(c) The accused shall be given written notice by personal service of registered mail, return receipt requested, stating:

- (1) The specific violations of this Chapter V with which the accused is charged.
- (2) The designated time and place of the hearing on the charges by the Hearing Committee, which time shall be not earlier than seven (7) nor later than ten (10) days following receipt of the notice.
- (3) That the accused shall be entitled to the presumption of innocence

until found guilty, the right to retain counsel, the right to present the testimony of witnesses and other evidence, the right to cross-examine all witnesses against him, the right to examine all documents and demonstrative evidence adverse to him, and the right to a transcript of the proceedings of the hearing.

(d) The Hearing Committee shall determine the guilt or innocence of the accused. If the person charged is found guilty, the Hearing Committee shall recommend to the Chancellor such discipline as said body determines to be appropriate. After considering such recommendation the Chancellor shall prescribe such discipline as he deems proper. In any event, whether the person is found guilty or not guilty, a written report shall be made by the Chancellor to the President within ten (10) days.

(e) Any person found guilty shall have ten (10) days after notice of such finding in which to appeal to the President of the University. Such an appeal if taken shall be upon the grounds set forth in Section 5-5.

(f) Any accused person who, without good cause, shall fail to appear at the time and place fixed for the hearing of his case by the Hearing Committee shall be suspended indefinitely or discharged from the University employment.

(g) A Chancellor, unless so ordered or otherwise prevented by court, shall not be precluded from carrying out his duties under this Chapter V by reason of any pending action in any State or Federal court. Should a delay occur in prosecuting the charge against the accused because the accused or witnesses that may be necessary to a determination of the charge are involved in State or Federal court actions, the time limitations set forth above in this Section 5-3 shall not apply.

(h) Conviction in any State or Federal court shall not preclude the University or any of its officers from exercising disciplinary action in any offense referred to in this Chapter V.

(i) Nothing contained in this Chapter V shall preclude the President or any Chancellor from taking any other steps, including injunctive relief or other legal action, which he may deem advisable to protect the best interests of the University.

Section 5-4.—Aggravated Acts or Threatened Repetition of Acts

(a) The Chancellor of each of the component institutions of the University shall appoint an Emergency Consultative Panel which shall be composed of not less than three (3) nor more than five (5) faculty members and not less than three (3) nor more than five (5) students who shall be available to advise with the Chancellor in any emergency. No member of such Panel shall serve for more than one (1) year unless he be reappointed by the Chancellor. The Chancellor may make appointments, either temporary or for a full year, to fill any vacancies which may exist on the Panel.

(b) If, in the judgment of the Chancellor, there is clear and convincing evidence that a person has committed any of the acts prohibited under this Chapter V which, because of the aggravated character or probable repetition of such act or acts, necessitates immediate action to protect the University from substantial interference with any of its orderly operations or functions,

or to prevent threats to or acts which endanger life or property, the Chancellor, with the concurrence as hereinafter provided of the Emergency Consultative Panel established pursuant to (a) above, may forthwith suspend such person from the University and bar him from the University campus, provided, however, that in the event of such suspension the person suspended shall be given written notice of the reason for his suspension, either personally or by registered mail addressed to his last known addresses, and shall be afforded a prompt hearing, which if requested, shall be commenced within ten (10) days of the suspension. Except for purposes of attending personally any hearings conducted under this Chapter V, the bar against the appearance of the accused on the University campus shall remain in effect until final judgment has been rendered in his case and all appellant proceedings have been concluded, unless such restriction is earlier lifted by written notice from the Chancellor.

(c) A quorum of the Emergency Consultative Panel provided for in (a) above shall consist of not less than four (4) of its members, and the required concurrence shall have been obtained if a majority of such quorum shall indicate their concurrence. The Chancellor shall meet personally with members of such Panel at the time he seeks concurrence, if it is feasible to do so. However, if the circumstances are such that the Chancellor deems it not to be feasible to personally assemble such members, then he may communicate with them or the required number of them individually by telephone or by such other means as he may choose to employ, in which event he may proceed as provided in (b) above after the required majority of such members have communicated their concurrence to him.

(d) In the Chancellor's absence or inability to act, the President may exercise the powers of the Chancellor specified in this Section 5-4 in the same manner and to the same extent as could the Chancellor but for such absence or inability to act.

Section 5-5. Right of Appeal

Any person found guilty of violating the provisions of this Chapter V by the Hearing Committee referred to in Section 5-3 shall have the right to appeal the finding and the discipline imposed upon him to the President of the University. Any such appeal shall be in writing, shall be based solely upon the record, and shall be limited to one or more of the following grounds:

- (1) That the finding is not supported by substantial evidence;
- (2) That a fair hearing was not accorded the accused; or
- (3) That the discipline imposed was excessive or inappropriate.

It shall be the responsibility of the President to make prompt disposition of all such appeals, and his decision shall be rendered within thirty (30) days after receipt of the complete record on appeal.

Section 5-6. No Amnesty

No administrative official, faculty member, or student of the University shall have authority to grant amnesty or to make any promise as to prosecution or non-prosecution in any court, State or Federal, or before any student, faculty, administrative, or Trustee committee to any person charged with or suspected of violating Section 5-2 (a) or (b) of these Bylaws.

Section 5-7. Publication

The provisions of this Chapter V shall be given wide dissemination in such manner as the President or Chancellors may deem advisable, and shall be printed in the official catalogues which may be issued by each component institution of the University.

**PROCEDURES FOR USE IN CASE OF REFUSAL
BY GRADUATE STUDENT SERVICE APPOINTEES
WHO ARE NOT SUBJECT TO CODE SECTION 4 - 3
TO PERFORM VALIDLY ASSIGNED DUTIES**

The following statement has been promulgated by the University Administration and is quoted for the information of all members of the University Community.

In the event that any graduate student fails or refuses to carry out validly assigned duties with the intent to obstruct or disrupt any normal operation or function of the University, the procedures given below will be followed. In these procedures the term "dean" identifies the deans of professional schools.

I. Administrative Procedures

1. The dean or department chairman in whose school or department the graduate student is appointed will immediately inquire into the alleged conduct. He shall, in writing, notify the graduate student involved that he is beginning an inquiry into the alleged conduct, which shall be briefly described. On the basis of his inquiry, he shall make a concise written finding of fact with respect to whether it appears that there did occur a failure or refusal to carry out validly assigned duties with the intent to obstruct or disrupt any normal operation or function of the University. He shall transmit one copy of the finding to the Chancellor and one to the graduate student involved.
2. If the inquiry indicates that the graduate student has failed or refused to carry out validly assigned duties with the intent to obstruct or disrupt any normal operation or function of the University, then the dean or chairman shall suspend the graduate student with pay from all duties until (a) the Chancellor has determined that no charge is to be made with respect thereto or (b) a final decision with respect thereto has been reached following a hearing before the body to which the matter is referred by the Chancellor.
3. If the Chancellor decides that a charge is to be made with respect to the matter and that it is to be referred to the appropriate existing University judicial body (rather than to the Hearing Committee referred to in Code Section 5-3), it shall be handled in the manner set forth below.

II Hearing Procedures

1. The dean or chairman shall convene by written directive the Grievance Committee set up by faculty action on January 10, 1969 (see Appendix B

of Faculty Legislation).

2. The dean or chairman shall, in writing, notify the graduate student of the convening of the hearing committee and shall provide the chairman of the hearing committee with a concise written summary of the charges of violation based upon the findings of the inquiry.
3. Upon convening of the hearing committee and receipt of the written charges, the chairman of the hearing committee shall forthwith set a time and place for the hearing by written notification to the graduate student and shall make the necessary arrangements for conducting the hearing. Unless manifestly impossible for reasons of specific unfairness to the graduate student or gross inconvenience to members of the hearing committee or to necessary witnesses, the hearing shall be set to commence not later than five (5) days after receipt by the graduate student of the written notice of the convening of the hearing committee. Failure on the part of the graduate student to attend the hearing without adequate cause shall result in automatic permanent suspension without pay.
4. The hearing shall be conducted on the written charges to determine their truth or falsity. The department chairman or dean who initiated the proceedings has the responsibility for presenting witnesses or documentary evidence to establish the charges. The graduate student shall be accorded the right to counsel of his own choosing, to confront and cross-examine the witnesses against him, and to examine all documents and demonstrative evidence against him. He shall have the right to present testimony of witnesses and other evidence in his own behalf.
5. A complete transcript of the proceedings shall be furnished at the expense of the University.
6. Promptly upon the close of the hearing, the hearing committee shall render its decision, and that decision shall be presented in writing to the graduate student and his department chairman or dean.

III. Disciplinary Action and Appeal Procedure

1. If the decision is adverse to the graduate student, the department chairman or dean who initiated the proceedings shall determine what disciplinary action is to be taken.
2. An appeal may be taken in the manner described in paragraph C of Appendix B to the Faculty Legislation on University Government.

Firearms and Other Weapons Prohibited

The possession of bowie knives, dirks, daggers, loaded canes, sword canes, machetes, pistols, rifles, repeating rifles, shotguns, pump guns, or other firearms or explosives upon any University campus or in any University owned or operated facility, unless explicitly permitted by the appropriate chancellor or his designat-

ed representative in writing, is forbidden. Violation of this prohibition constitutes grounds for suspension from the University.

Religion and Student Welfare

The deep concern of the University for the religious life of the student is symbolized by the centrally located YMCA and YWCA buildings. Functioning in the heart of the campus and led by outstanding directors, these Christian Associations minister to a large group of students. The churches of Chapel Hill, representing most of the denominations, provide an effective ministry to the students in their services of worship and weekly religious programs.

The University has a Department of Religion, offering courses in the history, literature, and interpretation of religion. All students thus have the opportunity to study with competent professors who can lead them to a better understanding and appreciation of their religious faith.

Medical Attention

To provide proper medical attention for the student, the University employs nine full-time physicians and maintains a well-appointed infirmary, with a modern X-ray unit under the direction of a full-time technician, and with a laboratory for diagnostic purposes under the direction of two full-time technicians. The infirmary is under the immediate supervision of the Director of Student Health Services and is provided with seventeen experienced nurses who are under the general supervision of a head nurse. At the discretion of his attending physician a student may be admitted to its wards, and for such services as may be rendered by the staff no charges are made. However, the student will be required to pay for any additional service (consultation, special nurses, and operations) recommended by the attending physician and approved by the parent or guardian.

Physical Education

A physical examination is given to students at the time of entrance. All students are classified on the basis of the examination, and an effort is made to adapt the program of physical education to the individual's particular needs.

Physical education is required of all undergraduate students two periods each week for the first two years. Encouragement is given to participation in athletic sports and all kinds of physical activity through a full program of intercollegiate and intramural athletics.

Libraries

The School of Pharmacy Library, supervised by a trained librarian and three student assistants, is located on the main floor of the Pharmacy building. It includes a well lighted, spacious reading room, extensive stack space, and the librarian's office. The carefully selected collection contains over 15,000 books and bound volumes of periodicals pertaining to pharmacy and the collateral sciences. The Library holds subscriptions to 350 professional and scientific serials. A valuable pamphlet collection, including government documents, provides further facilities for research and study.

The Pharmacy Library is a part of the Division of Health Sciences Library, which has additional collections located in the North Carolina Memorial Hospital, the School of Nursing, and the School of Public Health buildings. The combined collections total approximately 125,000 volumes specialized in Pharmacy, Dentistry, Medicine, Nursing, and Public Health.

The general University Library and ten specialized departmental libraries are also available to students of pharmacy. This collection contains approximately 2,109,448 volumes. Including manuscripts, pamphlets, maps, microfacsimiles, recordings, clippings, prints, etc., the count of holdings is more than 7,530,486 pieces. The rate of growth of the Library averages about 100,000 volumes a year through purchase, gift, and exchange. Periodical and other serial subscriptions number about 14,500.

Committee on Admissions

A special committee on admissions, composed of the Dean, the Assistant Dean, a staff member, and the Director of Admissions, is charged with the responsibility of selecting eligible students. Scholarship, entrance examination scores, character, industry, and priority of application are governing factors for admission.

RESIDENCE STATUS FOR TUITION PAYMENT¹

1. *General.* The tuition charge for legal residents of North Carolina is less than for nonresidents. To qualify for in-state tuition, a legal resident must have maintained his domicile in North Carolina for at least the twelve months next preceding the date of first enrollment or re-enrollment in an institution of higher education in this state.² Student status in an institution of higher education in this state shall not constitute eligibility for residence to qualify said student for in-state tuition.

2. *Minors:* A minor is any person who has not reached the age of eighteen years.³ The legal residence of a person under eighteen years of age at the time of his enrollment in an institution of higher education in this state is that of his parents, surviving parent, or legal guardian. In cases where parents are divorced or legally separated, the legal residence of the father will control unless custody of the minor has been awarded by court to the mother or to a legal guardian other than a parent. No claim of residence in North Carolina based upon residence of a guardian in North Carolina will be considered if either parent is living unless the action of the court appointing the guardian antedates the student's first enrollment in a North Carolina institution of higher education by at least twelve months.

3. *Adults:* An adult is any person who has reached the age of eighteen years. Persons, eighteen or more years of age at the time of first enrollment in an institution of higher education, are responsible for establishing their own domicile. Persons reaching the age of eighteen, whose parents are and have been domiciled in North Carolina for at least the preceding twelve months, retain North Carolina residence for tuition payment purposes until domi-

1. These regulations, as amended on August 13, 1971, shall be applicable with respect to tuition payments coming due after said date.

2. The reference in this sentence to "twelve months" formerly read "six months"; Chapter 845 of the 1971 Session Laws, which was ratified on July 13, 1971, made the change from "six months" to "twelve months". The office of the Attorney General has rendered the following opinion:

"The eligibility of all students who have applied and have been accepted by state-supported institutions of higher education prior to July 13, 1971, shall be determined upon the individual having maintained his domicile in North Carolina for at least the six months next preceding the date of first enrollment or re-enrollment in an institution of higher education in this State. The twelve-month requirement as provided for in Chapter 845 of the 1971 Session Laws does not apply to any individual who applied for admission and was accepted by a state-supported institution of higher education prior to July 13, 1971. The student already enrolled as an in-state student, qualifying as such by compliance with the six-month requirement prior to July 13, 1971, shall retain in-state status."

3. Chapter 585 of the 1971 Session Laws, which became effective on July 5, 1971, changed the age of adulthood from twenty-one years to eighteen years.

cile in North Carolina is abandoned. If North Carolina residence is abandoned by an adult, maintenance of North Carolina domicile for twelve months as a non-student is required to regain in-state status for tuition payment purposes.

4. *Married Students*: The legal residence of a wife follows that of her husband, except that a woman currently enrolled as an in-state student in an institution of higher education may continue as a resident even though she marries a nonresident. If the husband is a nonresident and separation or divorce occurs, the woman may qualify for in-state tuition after establishing her domicile in North Carolina for at least twelve months as a non-student.

5. *Military Personnel*: No person shall lose his in-state resident status by serving in the Armed Forces outside of the State of North Carolina. A member of the Armed Forces may obtain in-state residence status for himself, his spouse, or his children after maintaining his domicile in North Carolina for at least the twelve months next preceding his or their enrollment or re-enrollment in an institution of higher education in this state.

6. *Aliens*: Aliens lawfully admitted to the United States for permanent residence may establish North Carolina residence in the same manner as any other nonresident.

7. *Property and Taxes*: Ownership of property in or payment of taxes to the State of North Carolina apart from legal residence will not qualify one for the in-state tuition rate.

8. *Change of Status*: The residence status of any student is determined as of the time of his first enrollment in an institution of higher education in North Carolina except: (a) in the case of a nonresident student at the time of first enrollment who has subsequently maintained domicile as a non-student for at least twelve consecutive months and (b) in the case of a resident who abandons his legal residence in North Carolina. In either case, the appropriate tuition rate will become effective at the beginning of the first subsequent term enrolled.

9. *Responsibility of Students*: Any student or prospective student in doubt concerning his residence status must bear the responsibility for securing a ruling by stating his case in writing to the admissions officer. The student who, due to subsequent events, becomes eligible for a change in classification, whether from out-of-state to in-state or the reverse, has the responsibility

of immediately informing the Office of Admissions of this circumstance in writing. Failure to give complete and correct information regarding residence constitutes grounds for disciplinary action.

10. *Appeals of Rulings of Admission Officers:* Any student or prospective student may appeal the ruling of the admissions officer in writing to the Chancellor of the institution. The Chancellor may use any officer or committee which he deems appropriate in review of the appeal. Appeal of the Chancellor's ruling may be made to the President of the University; such appeals to be filed with the Chancellor and forwarded by him to the President.

Delayed Registration

Any student registering later than the time appointed for his registration must pay an additional fee of five dollars (\$5.00). No appeal from the late registration charge will be granted, unless the delay results from circumstances clearly beyond the student's control. Such an appeal must be made in writing to the Chancellor, must show justification for the delay in registering, and must bear the approval of the Dean of the School of Pharmacy.

EXPENSES

Tuition and Other Fees for Each Semester

	Residents of North Carolina	
	General College	School of Pharmacy
Tuition	\$112.50	\$150.00
Fees	88.50	92.25

The tuition for a nonresident of North Carolina is \$900.00 per semester in the General College and the School of Pharmacy.

The University reserves the right to make, with the approval of the proper authorities, changes in tuition and any other fees at any time.

Laboratory Breakage Deposit: Students taking laboratory courses are required to pay for breakage of equipment, use of more than normal expendable supplies and materials, and depreciation on unusual equipment. These fees are payable at the

end of each semester prior to taking the final examination in these courses. Failure to pay breakage fees will result in the withholding of grades.

Payment of Bills

Bills for the fall semester are payable at the time of registration. Bills for the spring semester are payable at the Cashier's Office on the first class day of the semester, and thereafter according to a schedule announced. Failure to pay or make the proper arrangements for payment results in the assessment of an extra fee of \$5.00.

Housing, Food, Laundry, and Linen Service

The University reserves the right to approve the housing of all students whether they live on or off the campus. Each University student is required to maintain a correct local address with the University. By Trustee action the administration is authorized to establish minimum standards of health, safety, and general welfare in regard to housing and to require that students maintain their residence in quarters which comply with these standards.

University-Operated Facilities

Residence Hall Accommodations: The University provides residence hall accommodations for approximately 6,700 students in its graduate center, men's and women's undergraduate residence halls, and coeducational undergraduate residential facilities. All residence halls, or residential areas, offer snack bars, TV rooms, special study and typing rooms, coin laundry, vending machines, private telephones, and social facilities. Some provide limited kitchen facilities; all are near recreational areas, parking lots and food service. Rooms are rented for the academic year, August through May, with the option to cancel at the end of the Fall Semester. Rent does not cover the occupancy during periods when the University is not officially in session. A newly accepted student wishing to live in University Residence Halls should mail the full semester's rent along with the room reservation card to the University Cashier. If for any reason a student wishes to cancel the room reservation, the Office of Residence Life must be notified

on or before June 15 for the fall semester, and on or before December 15 for the spring semester. The rent payment, less \$25.00 is refundable upon cancellation made by the above dates. After these dates, rent payments are not refundable except for: illness which prevents enrollment or causes withdrawal; military draft; death in the family; dismissal for disciplinary or academic reasons.

Rates: Men — semester rent is \$175.00 per person in a double room (\$265.00 for limited number of single rooms). This amount includes a \$5.00 residence hall social fee.

Women — semester rent is \$215.00 per person in a double room (\$325.00 for a very limited number of single rooms). This includes a \$5.00 residence hall social fee.

All rooms are furnished. The University's pillow, linen, and blanket rental service is described on page 31. Students may elect to provide their own bedding.

The occupant of a room will be held directly responsible for all damage to the room and its furniture.

No pets may be kept in University residence halls or housing units. Outside aeriels, cooking appliances, and air-conditioning units may not be used. Irons, self-contained coffee pots, and refrigerators are exceptions. A limited number of refrigerators are permitted in the residence halls. Contact the Office of Residence Life for details.

After registration, rent for residence halls will not be refunded unless the student withdraws from the University during the first nine weeks of a semester because of illness (if recommended by the Director of Student Health Service), death in the family, dismissal for disciplinary or academic reasons, or military draft. A student dismissed or otherwise withdrawn from the University is expected to leave the University residence within 72 hours.

Residence Hall Tenancy: Students already living in a residence hall and desiring to retain rooms for the next academic year must make application as follows: Pay a \$25.00 deposit to the University Cashier, and file a room reservation card with the Office of Residence Life by a date announced by the Director of Residence Life. The deposit is forfeited on cancellation after June 10th.

Room assignments will be cancelled and deposit forfeited unless rent for the fall semester is paid in full by June 15.

Room reservation for either of the two summer terms is made upon payment of the full amount of rent for one term.

Housing Units for Married Students: The University has a limited number of housing units for married students. It is the general policy of the University to give priority to the applications of married graduate students.

Most of the apartments are unfurnished. Minimum rent for the newer brick apartments is \$82.00 per month for one-bedroom units, \$92.00 per month for two-bedroom apartments, including electric stoves, refrigerators, heat, and water. A limited number of two bedroom apartments are furnished and rent for \$110.00.

Early application to the Director of Residence Life is urgently recommended. Married students, especially married foreign students, should not bring their families to Chapel Hill until their housing arrangements have been settled.

The Office of Residence Life maintains listings of off-campus accommodations. Satisfactory arrangements for these places are best made by applying in person.

Conditions of Tenancy: The University reserves the right to make changes in room assignments. The University also reserves the right to require any student whom it considers, for any reason, an undesirable tenant to vacate a residence hall room. The right to occupy a room is not transferable and terminates with the expiration of the lease. Sale or transfer of a student's right to occupancy will be considered a fraudulent transaction and will result in forfeiture of the room by the lessee and the room becomes available for assignment by the Office of Residence Life. The University reserves the right to make changes at any time in room rent and other charges stated in this section.

Student Dining Facilities: Dining facilities are operated in locations convenient to residence halls and meals are offered at reasonable rates.

Privately Owned Residence Hall Accommodations — University Square

Approximately 800 women and 700 men are housed in privately owned Granville Towers. The location is just off the UNC campus about one block from the Carolina Inn.

These supervised residence halls, one for women, one for men, and one coeducational have a cafeteria-dining commons. The fee charged includes room and board. Further information is available from Granville Towers, University Square, Chapel Hill, North Carolina 27514.

Arrangements for these accommodations should be made direct with Granville Towers Business Office.

Laundry, Linen, Pillow, and Blanket Services

Laundry Service: Finished laundry service at reasonable cost is provided by the University Laundry Department to students who wish to use it. This service is available on a Cash-and-Carry basis at any of the eight Laundry Call Offices. (Students desiring to do so may use the deposit system in lieu of Cash-and-Carry.)

Additional Laundry Services: Wash-Dry-Fold service (nothing finished) is available at any of the University Laundry Call Offices. This is an economical, Cash-and-Carry service and is separate from the finished laundry service.

Linen Rental Service: For students who do not wish to provide their own linen, the University Laundry will furnish two sheets, one pillow case, and three bath towels each week on an exchange basis. This service is available at all Laundry Call Offices. A fee of \$33.00, which includes a \$5.00 refundable deposit, for the school year (September through May) is payable when service is requested.

Pillows may be rented for \$1.55 for the school year. Blankets are available for a deposit of \$5.00 each, with provision for a refund of \$2.00 when blanket is returned in good condition.

Dry Cleaning: Complete dry cleaning service is available at all University Laundry Call Offices on a Cash-and-Carry basis.

Coin-Op-Service: Coin-Op service is available at Avery, Craig, James, and Joyner laundry offices.

Summary of Estimated Expenses for the College Year of the Average Male Student Who Is a Resident of North Carolina

Board estimated at \$15 a week	\$ 600.00
Residence Hall room (for men	\$ 350.00
(for women \$430.00)	
Tuition	300.00
Fees	184.50
Laundry and Linen deposit (optional)	80.00
Miscellaneous expenses (clothing, travel, spending)	282.50
Books and supplies, estimated for year	125.00
Total for North Carolina Resident	\$ 1,992.00
Total for Nonresident	\$ 3,422.00

Financial Aid

The University has certain funds which may be loaned to worthy students who can show definite need. In addition, there are part-time jobs involving various kinds of work which enable some students to earn a part of their expenses. Information about all these types of assistance may be obtained by writing to the Director of Student Aid, 300 Vance Hall, Chapel Hill.

Pharmacy students who are residents of North Carolina and have successfully completed the freshman year are eligible to apply for loans appropriated by the General Assembly. The student agrees upon (1) completing requirements for the Degree of Pharmacy, and (2) becoming Board registered to repay the loan by practice in North Carolina in either (1) a rural community of 10,000 or less population or (2) a State-owned mental, tuberculosis or rehabilitation facility one year for each academic year of assistance. The maximum loan available is \$1,000 per academic year of \$4,000 for a four-year period. Detailed information may be obtained from the North Carolina Medical Care Commission, P. O. Box 25459, Raleigh, North Carolina 27611.

Students from farm homes may be eligible for loans to a limit of \$1,000 per year from the North Carolina Rural Rehabilita-

tion Corporation, P. O. Box 2504, Raleigh, North Carolina.

Pharmacy students are eligible for loans to cover tuition, fees, and books not exceeding \$500 per semester from the John W. Dargavel Foundation, 4101 East Michigan Street, Indianapolis 1, Indiana. Loans are made only to complete the last three years of pharmaceutical education. The applicant must be recommended by the Dean of the School of Pharmacy. Two co-signers are required. The loan is free of interest and is repayable in reasonable monthly installments after graduation. The loan, however, becomes payable immediately if the student withdraws from the School of Pharmacy for any reason whatsoever.

Scholarships

Special scholarships are available to students of pharmacy. They are listed on pages 57-62.

Veteran's Adviser

Questions concerning educational benefits under the GI Bills should be taken up with the Veteran's Adviser, Room 1, Hanes Hall.

Registration

All students are expected to present themselves for registration in accordance with the plan of registration established for the current year. A student registering for the first time will report for a physical examination to the Infirmary and present at registration a clearance card from the Director of Student Health Services. Failure to attend to this matter before registering causes extra expense to the University and entails for the student the payment of an extra charge of five dollars (\$5.00).

Students who expect to register for the first-year class should be in Chapel Hill in time for the first Orientation meeting. The time between this date and formal registration is devoted to placement tests and to a systematic plan of acquainting new students with their surroundings. All students begin their registration with their advisers in Beard Hall.

Registration for credit for any course is limited to the first three full days of instruction in a semester, unless the late registration is approved by the instructor concerned and the Dean.

The listing of a course in the catalogue does not obligate the University to give the course in any particular year.

Changes in registration are limited to the first three days of a semester.

Attendance Regulations

Regular attendance at class is a student obligation. It is his obligation to know the rules governing class attendance, to *know his attendance status in all classes at all times*.

For classes by the pharmacy faculty, a student will be reported to the Dean of the School when he has been absent without excuse the number of times equal to the number of class lecture meetings per week. Each unexcused absence during the two-day period immediately before or immediately after University holidays will be counted as two absences. Unexcused absences from laboratory or from class on the day of a scheduled quiz or examination will result in failure of the work missed.

When a student has the limited number of unexcused absences in a single class the instructor will notify him and the Dean that the student is on attendance probation for the course. One additional unexcused absence will be reported to the Dean and will result in the student being dropped from the course by his Dean with the grade of *F*.

The faculty is responsible for enforcement of the regulations. In order to discharge this responsibility properly, members of the faculty will: (a) explain the attendance regulations during the first week of every class; (b) keep an accurate daily record of attendance; (c) report promptly to the Dean the name of any student who has been placed on attendance probation for being absent the limited number of times without excuse; and (d) report promptly to the Dean the name of any student on attendance probation who is absent without excuse.

The grade of a student who quits a course without the permission of the Dean is recorded officially as *F*.

The grade of a student who drops or is dropped for other than disciplinary reasons from a course in which he is failing at that time is recorded as an *F* unless, in the judgment of the Dean, his failure was caused by circumstances beyond his control.

The Dean will determine whether a student may remain in residence after having been dropped from or having quit one or more courses.

Examinations

Regular written examinations are required at the end of each term in all courses except those whose nature makes written examinations unnecessary.



Special examinations may be taken at the period of the special examinations in the fall by students who have received the condition grade (*Cond.*) Provided he has no conflict with a course regularly taken by him in the semester, such a student may take the examination with the class in the same subject at any regular term examination period within a year after he has made the grade Condition. A fifth-year student who makes

a grade of Condition in his last term of residence is allowed to take a special examination for removal of the Condition not earlier than three days after his last examination in that period of examinations. The grade Condition becomes *F* if the student fails to pass a re-examination within one year.

Examinations to remove the grade of Condition at times other than those specified in the preceding paragraph may be arranged between the instructor involved and the Dean of the School.

Special examinations for students who have been excused by the instructor from regular examinations on account of sickness or at the September period, or at a regular term examination excused may be held at suitable times fixed by the Office of Records and Registration and the instructors concerned. Such examinations must be taken within twelve months from the date of absence.

To be entitled to take a special examination within a term, or at the September period, or at a regular term examination period, the student is required to file a written request with a recorder in the Office of Records and Registration at least one week before the time for the examination.

Students absent from an examination without an excuse, or present and failing to submit examination papers, are reported absent. This mark is equivalent in every respect to grade *F*, or failure, and is so recorded in the Office of Records and Registration.

Each student is required to subscribe his name on the following pledge or its equivalent on every paper: "I hereby certify that during this examination I have neither given nor received aid." The instructor will not report a grade for any student whose examination paper lacks this pledge.

Papers handed in at a special examination by students who have been excused by the instructor from the regular examination will be graded by the usual system; all others will be marked *passed* or *failed*.

By action of the faculty, quizzes are not to be given during the last six days of instruction of any term.

Standing

At the close of each term, reports of the standing of all students in all of their studies are sent to parents or guardians. The reports are based upon the following system of grading:

A—Excellent, *B*—Good, *C*—Fair, *D*—Barely passed; *Cond.*—Conditioned, *F*—Failure, or *I*⁴—Work incomplete.

Rank of Classes

A student must attain a grade of *D* or better to pass any course.

If a student fails a course in the major field (Pharmacy, Medicinal Chemistry, Pharmacy Administration, or Pharmacognosy) a grade of *C* or better is required for passing when the subject is repeated.

The right of appeal to the Committee on Petitions of the School of Pharmacy is allowed with respect to grading, provided the appeal is made within three months.

Any student who is denied promotion or readmission but who offers evidence of extenuating circumstances is permitted to make a written and personal appeal to the Committee on Petitions. The Committee will meet each year at a time to be designated by the Dean to consider petitions of students who have definite and convincing reasons on which to base a request for readmission

Eligibility and Promotions

A *C* average, corresponding to a quality point average of 2.0, is required for graduation with the degree of Bachelor of Science in Pharmacy. A *C* average is required also in professional courses to qualify for graduation; professional courses include Pharmacology 101-102 and Biochemistry 51. Quality points are earned as follows: 4 for each credit hour of *A*, 3 for each credit hour of *B*, 2 for each credit hour of *C*, and 1 for each credit hour of *D*. The calculation of the quality point average is based only on

4. The grade *I* may be converted into one of the other grades by completing within a period of twelve months such additional assignments as may be required by the instructor in the course. A grade of *I* not so converted becomes *F*.

the work taken at this University; grades transferred from another institution are not included in the calculation.

An applicant who has a quality point average of 1.50 or better for his first year's work (prepharmacy year) and who satisfies all other requirements will be admitted to the School of Pharmacy for the second year of the five-year curriculum. Applicants whose quality point averages for the first year's work are less than 1.50 but not less than 1.25 will be given individual consideration by the Committee on Admissions.

Eligibility for continued residence in the School of Pharmacy requires cumulative quality-point averages as follows: 1.50 or better to begin the third year, 1.75 or better to begin the fourth year, 1.90 or better to begin the fifth year, and 2.00 or better (C average or better) to graduate.

In view of its responsibility to the public, the pharmacy faculty reserves the right to drop a student from the School at the end of any semester providing he does not in its judgment show sufficient promise to justify continuing the study of pharmacy regardless of his grades.

Withdrawals

If a student wishes to withdraw at any time other than the end of a semester, a formal withdrawal, which is prerequisite to honorable dismissal or re-entrance to this institution, must be approved by the Dean in order to be valid. Such a withdrawal will be approved only after full investigation of the circumstances and after the lapse of twenty-four hours from the time the first application is filed with the Dean. The withdrawal form after approval by the Dean must be filed promptly with the Office of Records and Registration, 1 Hanes Hall.

If a student withdraws after mid-term and is reported as below passing in two or more courses, that will be counted as a semester in residence in all computation of his requirements for readmission. If a student withdraws before mid-term, it will be left to the discretion of the Dean whether that semester is to be counted as a semester in residence. The Dean's decision will be indicated specifically on the form used for withdrawal. Students withdrawing from the School of Pharmacy may lose

the privilege of re-entering at a certain time, since the numbers admitted to classes are limited.

Description of Curriculum

The School of Pharmacy recognizes that its graduates may elect to pursue one or another of a number of related but definitely different forms of pharmaceutical practice. They may practice clinical pharmacy in community pharmacies as proprietors or employees. They may also practice pharmacy in hospitals or other medical care institutions. The graduate of the School of Pharmacy is also in demand in the various divisions of the pharmaceutical industry: research, development, production, control, and marketing. Positions are open to the graduate in various government agencies, for example, the United States Public Health Service and the Veterans Administration. Each of these different careers requires a specialized type of training, and the School attempts to provide such specialization. Certain subject matter, however, is basically necessary regardless of the career which the student may expect to follow after graduation. The School has one basic curriculum. Specialization is possible by the judicious selection of electives in the last three years. Students particularly those considering graduate study, who are interested in specialization, should consult the Dean before registering for elective courses. The curriculum is given on page 43. Statements about graduate work are given on pages 16 and below.

Degree of Bachelor of Science in Pharmacy

To be recommended for the degree of Bachelor of Science in Pharmacy the student must have completed the five-year course of study outlined on page 43. A minimum residence of three years in the School of Pharmacy is required except for students who transfer from another school of pharmacy with advanced standing in professional courses (minimum residence of one year as given under the *General Statement*, page 12).

GRADUATE WORK IN PHARMACY

The degrees of Master of Science and Doctor of Philosophy will be conferred upon students who have completed satisfactorily approved graduate work extending over not less than one year

for the master's degree and not less than three years for the doctor's degree. Students will be considered for admission to graduate study only if they satisfy the requirements of the Graduate School and have a B.S. degree in pharmacy, chemistry or the biological sciences from an accredited college or university. The major fields of study include pharmacy, physical pharmacy; hospital pharmacy; biopharmaceutics) and medicinal chemistry. The minor fields of study may be selected with the departments of



the University. The graduate degree programs of the School of Pharmacy benefit considerably from the relations of the faculty with the School of Medicine, the Research Triangle Institute (especially the Natural Products Laboratory) and the Oak Ridge Institute of Nuclear Studies. The graduate courses are administered by the Graduate School, and information concerning them may be obtained by addressing the Dean of the Graduate School or the School of Pharmacy.

REQUIREMENTS FOR ADMISSION

Freshmen

Applicants of either sex may be admitted to the General College for the first year of study (prepharmacy), provided they meet the requirements for entrance. Application blanks for admission may be secured by writing to the Director of Admissions, The University of North Carolina at Chapel Hill, who upon approving the application will undertake to secure directly from the proper high school official an appropriate certification of the applicant's record.

A non-refundable application fee of \$10.00 must be submitted with the application for admission. An applicant who has been offered admission reserves his place by the payment of a \$100.00 non-refundable deposit which is credited toward the first semester's tuition.

An advance deposit of fifty dollars (\$50.00) is required to be made by each student enrolled for the regular academic year who intends to return for the succeeding academic year. The fee shall be paid during the last regular term of the academic year preceding the academic year for which the deposit is being paid.

Freshmen are admitted to the General College by certificate from accredited schools or by examination, and they must show satisfactory scores on an entrance examination consisting of the College Entrance Examination Board. *The Dean of the School of Pharmacy should be advised when formal application for admission is made to the Director of Admissions.*

Admission to the General College is ordinarily based on the completion of four years of high school or preparatory school work and acquisition of fifteen or more units of credit according to the following distribution:

English	4 units	A Natural Science	1 unit
History of the United States	1 unit	Latin, German,	
Algebra	2 units	French or Spanish ...	2 units
Plane Geometry	1 unit	Electives to make	
		total of	16 units

5. Of the 5 elective units counted in the total of 16, not more than 4 may be vocational subjects. Experience has shown that physics and typing are some useful electives for prospective pharmacy students.

Transfer Students

Candidates for admission as transfer students with second-year standing must have credit for the courses in the first-year curriculum. A limited number of transfers with third-year standing must have credit for the courses of the first two years of the curriculum including 8-9 semester hours of organic chemistry and substituting credit for either Zoology, Chemistry 42, or equivalent credit in elective courses, in place of Pharmacy 21, 30, and 31. Transfer students are required to submit transcripts of their college work at the time of their formal application for admission. Each application for admission or readmission must be approved by the Director of Admissions at the University before the application can be considered by the Committee on Admissions of the School of Pharmacy. Applicants for admission as transfer students should appear at the School of Pharmacy for a personal interview. All applications should be filed as early as possible in the period before February 1.

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

First Year¹

Fall Semester				Spring Semester			
	D.	L.	C.		D.	L.	C.
English 1	3	0	3	English 2	3	0	3
Social Science	3	0	3	Social Science	3	0	3
² Biology 21 (or Zoology 11)	3	3	4	² Biology 22 (or Zoology 41)	3	3	4
Mathematics 15	3	0	3	Mathematics 31	3	0	3
Chemistry 11 & 11L	3	3	4	Chemistry 21 & 21L	3	3	4
Phys. Educ. 1	1	0	1	Phys. Educ. 2	1	0	1
	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>	<hr/>
	16	6	18		16	3	18

Second Year

Chemistry 41 & 41L	2	4	4	³ Chemistry 42 & 42L	2	4	4
Physics 24	4	2	4	Physics 25	4	2	4
Pharmacy 21	1	0	1	Humanities	3	0	3
Pharmacy 30	1	0	1	Pharmacy 94	2	0	2
Pharmacy 31	2	3	3	Pharmacy Admin. 99	2	0	2
Chemistry 61	2	0	2	Chemistry 62	2	0	2
	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>	<hr/>
	13	9	15		15	6	17

Third Year

Med. Chem. 65	3	0	3	Bacteriology 51	3	2	4
Pharmacognosy 61	3	3	4	Public Health 160	3	0	3
Economics 31	3	0	3	Pharmacy 67	3	3	4
⁴ Electives	6	0	6	Med. Chem. 51	3	3	4
	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>	<hr/>
	15	3	16		12	8	15

Fourth Year

Pharmacy 101	1	0	1	Pharmacy 122	3	0	3
Physiology 93	3	3	4½	Pharmacy 72	3	3	4
Pharmacy 80	1	1	1	Med. Chem. 69	3	0	3
Pharmacy 71	2	3	3	Pharmacy 102	2	0	2
Med. Chem. 68	3	0	3	⁴ Electives	3	0	3
Business Ad. 74	3	0	3		<hr/>	<hr/>	<hr/>
⁴ Elective	3	0	3		14	3	15
	<hr/>	<hr/>	<hr/>				
	16	7	18½				

Fifth Year

⁵ Professional Option	3	0	3	⁵ Professional Option	2	3	2
⁶ Pharmacy 107L	2	3	3	⁶ Pharmacy 107L	2	3	3
Pharmacy 107	3	0	3	Pharmacy 108	3	0	3
⁷ Pharmacy 94	1	0	1	Pharmacy 95	1	0	1
Pharm. Admin. 96	2	0	2	Pharm. Admin. 98	3	1	3
Pharmacology 101	2	3	3½	Pharm. Admin. 99	2	0	2
Electives	3	0	3	Pharmacology 102	2	3	3½
	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>	<hr/>
	16	6	18½		15	10	17½

¹ Students are registered in the General College for the first year and in the School of Pharmacy for the following four years. Transfer students should see page 14.

² Students who have satisfactorily passed 2 units of high school foreign language and who place out (by placement test) of elementary foreign language should take Biological Science. Others are required to take up to a year of foreign language in addition to the Biological Science requirement.

³ May be replaced with Medicinal Chemistry 64.

⁴ The five electives must be taken in not less than three departments of the Humanities and Social Sciences. Recommended electives are public speaking, business English, American History, and public health. Electives must be approved by the Dean.

⁵ Professional Optional courses—may be replaced with other selected course options. These courses are to be selected from an approved list.

⁶ Some of the students will take this course in the fall and some will take it in the spring.

⁷ Pharmacy 94, 1 credit is being phased out in place of 2 credit course in second year.

MEDICINAL CHEMISTRY

Number	Description	Prerequisites	Credit	Sem.	Hours/ Lec
51	BIOCHEMISTRY. The chemistry of products important in the processes of the living organism primarily as a basis for understanding drug action. Piantadosi, Hall, Ishaq.	MedC 65, Chem 61, 62	4	Sp	3
64	PHARMACEUTICAL ANALYSIS AND QUALITY CONTROL. A survey course dealing with analytical methods and quality control aspects for drugs. Cocolas, Lee, Loeffler, Semeniuk.	Chem 61 or equivalent	4	Sp	2
65	INTRODUCTION TO MEDICINAL CHEMISTRY. A lecture course designed to initiate the student into functional group classification schemes of drug molecules and to draw correlations between chemical, physical and pharmacodynamic characteristics of drugs. Piantadosi, Staff.	Chem 61, 62 or equivalents.	3	F	3
68, 69	MEDICINAL CHEMISTRY. An introduction to the study of the chemical and physical properties of drugs and their relationship to biological activity. Cocolas, Lee, Loeffler, Semeniuk, Ishaq.	Chem 62, MedC 65, MedC 51 or equivalents.	3	F,Sp	3
61	PHARMACOGNOSY. A study of medicinal and pharmaceutical products of biological origin; their production, evaluation, active constituents and uses. Laboratory work includes microscopical study of powdered drugs and an introduction to the use of other techniques useful in the evaluation of natural drugs and their constituents, including extraction and isolation techniques and identification tests. Wier.	Zool 11, Chem 61, Chem 62	4	F	2
62	MODERN METHODS OF PLANT ANALYSIS. Principles and techniques applicable to the chemical investigation of drug plants; including determination of sources, preparation, extraction and fractionation. Also, principles of determination of biosynthetic pathways giving rise to secondary metabolites in plants. Wier.	Med C 51	2	Sp	2
Courses for Graduates and Advanced Undergraduates					
121	CHEMISTRY OF NATURAL PRODUCTS. The study of the essential principles involved in the isolation, separation, and characterization of natural products. Lee, Staff.	Chem 61, 62 or equivalents	3	Sp	3
124	ADVANCED PHARMACEUTICAL ANALYSIS. The application of quality control and analysis to pharmaceutical products. Lee, Semeniuk.	Chem 42, 61, 62 or equivalents	3	F	2

Number	Description	Prerequisites	Credit	Sem.	Hours/Week	
					Lec	Lab
	INTRODUCTION TO RESEARCH IN MEDICINAL CHEMISTRY. Staff.	Chem 61, 62 & permission of professor	1-4	F & Sp	1	3 or more
	BIOMEDICINAL CHEMISTRY. Staff.	MedC 69, MedC 51 or equivalents & permission of instructor.	3	F		
	DRUG INFORMATION ANALYSIS AND RETRIEVAL. Description and application of modern methods of handling information in areas of Chemistry and Biomedical Sciences. Hager		2	F or Sp		
	INTERMEDIATE MEDICINAL CHEMISTRY. A lecture course dealing with structure activity relations and their biochemical basis; binding forces of drugs; principles of drug interaction, drug metabolism and reaction and uses of natural and synthetic drugs. Piantadosi, Staff.	MedC 51, MedC 69 or equivalents & permission of instructor.	3	F		3

Courses for Graduates

	SPECIAL PROBLEMS IN MEDICINAL CHEMISTRY. Conduct feasibility studies in a potential research area. Staff.	Chem 61, 62 or equivalent. Permission of instructor.	1-4	F & Sp		
	SELECTED TOPICS IN SYNTHETIC ORGANIC MEDICINAL CHEMISTRY. Cocolas, Lee, Loeffler, Piantadosi.	Chem 166 or equivalent	3	F & Sp		
	SELECTED TOPICS IN NATURAL PRODUCTS. Lee, Staff.	Chem 166, 168	2	Sp, 1971 & alternate years		
	SEMINAR IN CANCER CHEMOTHERAPY. Piantadosi, Staff.	Biochemistry 105, 106	2	F, 1972 & alternate years		
	ADVANCED MEDICINAL CHEMISTRY. Piantadosi, Cocolas, Lee, Loeffler.	MedC 51, Chem 166, 167 or equivalent	3	F & Sp		3 (with reports)
	PERSPECTIVES IN MEDICINAL CHEMISTRY. For graduate and post-doctoral students. Staff.		3	F & Sp		
	SEMINAR. Staff.		0-1	F & Sp		

Number	Description	Prerequisites	Credit	Sem.	Hours Lec
391.	RESEARCH IN MEDICINAL CHEMISTRY.		1 or more	F or Sp	1
392	This course for graduate students consists of laboratory work, conferences with the major professor, and library investigations relating to research. The professor in charge is responsible for the assignments and approval of the subject and character of the thesis. Cocolas, Hager, Lee, Loeffler, Piantadosi, Semeniuk.				
393	MASTER'S THESIS. Staff.		3 or more	F or Sp	
394	DOCTORAL DISSERTATION. Staff.		3 or more	F or Sp	

PHARMACY

Courses for Undergraduates

21	INTRODUCTION TO PHARMACY. This course introduces the student to the background and total content of the study and practice of pharmacy. The course consists of lectures based on selected references and weekly quizzes. Werley, Staff.		1	F	1
30	PHARMACEUTICAL CALCULATIONS. A study of the calculations necessary in the modern practice of pharmacy. The course involves the various systems of weights and measures, dosage calculation, logarithms and statistics. Hall, Staff.		1	F	1 (th 1 c
31	PRINCIPLES OF PHARMACY. Introduction to pharmaceutical dosage forms and principles of dispensing. Hall, Staff.		3	F	2
67	BASIC PHARMACEUTICS I. A study of pharmaceutical solutions. Hall, Staff.	Pharmacy 31	4	Sp	3
71	BASIC PHARMACEUTICS II. A study of the solid pharmaceutical dosage forms, powders, tablets and capsules. Paoloni, Staff.	Pharmacy 31	3	F	2
72	BASIC PHARMACEUTICS III. A study of semi-solid and polyphasic pharmaceutical dosage forms. Paoloni, Staff.	Pharmacy 31	4	Sp	3
80	FIRST AID. The American Red Cross Standard and Advanced Courses in first aid. Textbook: American Red Cross First Aid Textbook. Wier, Assistant.		1	F	1
88, 89	PRESCRIPTION SPECIALTIES. Distinctive classes of pharmaceutical forms, important pharmacotherapeutic groups, and individual drugs are studied in relation to current professional practice. Thompson.	Chem 62, Phar 72	3	F,Sp	3

Course Lec	er	Description	Prerequisites	Credit	Sem.	Hours/Week	
						Lec	Lab
1		DRUGS, THE PHARMACIST AND THE HEALTH CARE SYSTEM. Major issues concerning health care and drug usage will be explored. The hospital and the community health clinic as model health care delivery systems will be discussed. The pharmacist's responsibilities in these environments will be described. Daniels, Staff.		1-2	F & Sp	1-2	
		LABORATORY ORIENTATION TO HOSPITAL PHARMACY. Hospital pharmacy practice through seminars, lectures and supervised experience in the pharmacy department of North Carolina Memorial Hospital.	Permission of instructor. Limited to 15 students/semester.	3	F&Sp	Sem.	2
		ORIENTATION TO PROFESSIONAL PRACTICE. Attention is focused on the role of the community pharmacist in public health care and the pharmacist's relationship to other members of the health professions. Hager.		1	Sp		1

Courses for Graduates and Advanced Undergraduates

1		CONTROL OF PHARMACEUTICAL PRODUCTION. Dunham.	Pharmacy 67 or equivalent	1	F		1
		BIOPHARMACEUTICS. Blum, Triggs.	Pharmacy 67	2	Sp		2
		STERILE PHARMACEUTICAL PRODUCTS. Mattocks, Dunham.	Permission of instructor	2	Sp		2 3
2		TOXICOLOGY AND DRUG ABUSE. An introduction to the study of drug and chemical adverse reactions including important aspects of toxicology and industrial hygiene. McBay.	MedC 69, MedC 51	3	F		3
2		ANALYTICAL TOXICOLOGY. McBay.	Permission of instructor	2	Sp		1 3
		RADIOPHARMACEUTICALS. Principles and techniques of radioisotopes, the dispensing and control of radiopharmaceuticals. Mattocks, Briner, DeFries, Oswald, Piantadosi.		3	F		2 3
1		CLINICAL PHARMACEUTICS AND PHARMACY PRACTICE. Factors involved in the selection of specific drugs and dosage forms for common diseases and adjustment of dosage to the individual patient will be presented. Triggs, Eckel, Staff.	Phar 72, 102	3	F & Sp		3 0
		PHARMACY PRACTICE. Pharmacy Practice situations will be used to expose students to the delivery of Pharmacy services.		3	F & Sp	Seminar & Lab Sessions	

Number	Description	Prerequisites	Credit	Sem.	Hours/ Lec
108L	CLINICAL PHARMACY CLERKSHIP. Through assigned responsibility in Clinical Pharmacy Services the student will be exposed to and learn how to solve drug therapy problems. (May be substituted for Pharmacy 107L or professional option.) Pulliam, Caiola, Eckel, Staff.	Permission of instructor	4-6	F, Sp	
122	BIOLOGY OF DISEASE. The lecturers will discuss a number of common disease states through a contrast of normal physiology and pathophysiology of the organ systems involved. In addition, they will describe the definition, etiology, incidence, pathogenesis, clinical manifestations, prognosis and treatment of each disease. Emphasis will be on total therapy, describing the place of drugs within the total therapy. Staff.	Physiology 93	3	Sp	3
132a,b 133a,b	TOPICS IN HOSPITAL PHARMACY. Eckel & Hospital Pharmacy Staff.	Graduate standing or permission of instructor.	1		
135, 136	INTRODUCTION TO RESEARCH IN PHARMACY PRACTICE. Eckel, Staff.	Permission of Instructor	1-3	F & Sp	
162	PHARMACEUTICAL TECHNOLOGY I. The study and manufacture of pharmaceuticals on a large and semicommercial scale. Olsen, Dunham.	Pharmacy 67,71 72	3	F	2
163	PHARMACEUTICAL TECHNOLOGY II. A continuation of a study of pharmaceutical manufacturing and the development of new products. Olsen, Dunham.	Pharmacy 162	3	Sp	2
171, 172	INTRODUCTION TO RESEARCH IN PHARMACY. These two courses provide one or two semester's assignments to special research problems in pharmacy. Mattocks, Staff.	Permission of instructor	1 or more	F & Sp	
191, 192	PRODUCT FORMULATION. The development and evaluation of pharmaceutical and cosmetic products. Mattocks, Staff.		5	F & Sp	2

Courses for Graduates

249	HOSPITAL PHARMACY AND HOSPITAL ORGANIZATION. Eckel.		3	F	3
250	PRINCIPLES OF HOSPITAL PHARMACY. Eckel.	Pharmacy 249	3	Sp	3

Course	Description	Prerequisites	Credit	Sem.	Hours/Week	
					Lec	Lab
ADVANCED PHARMACEUTICAL TECHNOLOGY.	Tablets, similar drug forms, parenteral products, and the basic relevant processes are intensively studied. The laboratory consists of the preparation of tablets and parenterals. Field trips are made to observe the large scale production of pharmaceuticals. The pertinent literature is reviewed. Staff.		5	F,Sp in consecutive years	2	6
BIOPHARMACEUTICS III.	Triggs, Blum.	Pharmacy 102 & knowledge of calculus	3	F		3
BIOPHARMACEUTICS.	Blum, Triggs.	Pharmacy 255	3	Sp		3
ADVANCED PHYSICAL PHARMACY.	An intensive study of the application of fundamental physical and chemical principles to the study of drug decomposition and formulation of acceptable dosage forms. The laboratory work includes the application of chemical kinetics to drug stability, the use of buffers, particle size analysis, antioxidants and molecular addition compounds for the stabilization of pharmaceutical products. Mattocks, Triggs, Hall.		5	F,Sp	3	6
SEMINAR.	Staff.		0-1	F & Sp		1
RESEARCH IN PHARMACY.	This course for graduate students consists of laboratory work, conferences with the major professor, and library investigations relating to research. The professor in charge is responsible for the assignments. Staff.		1 or more			
MASTER'S THESIS.	Mattocks, Triggs.		3 or more	F or Sp		
DOCTORAL DISSERTATIONS.	Mattocks, Triggs.		3 or more	F or Sp		

PHARMACY ADMINISTRATION

Courses for Undergraduates

PHARMACY MANAGEMENT I. A general introduction to the distribution of pharmaceutical products. Comprises a study of the channels of distribution for pharmaceutical products; the functions of the middleman; factors of income and wealth, consumer motivation and buying behavior, population; competition; drug development; and other marketing topics. Textbook: Smith, **Principles of Pharmaceutical Marketing.** **Chambers.**

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Number	Description	Prerequisites	Credit	Sem.	Hours/ Lec
97	MODERN PHARMACY INFORMATION TECHNIQUES. Major trends in computer-based information handling in the practice of pharmacy will be explored and the pharmacist's relationships and responsibilities described. Orientation will be provided in systems designed to handle prescriptions and third-party payment records; adverse drug reactions, chemical structure searching and other data pertinent to pharmacy. Laboratory sessions will provide familiarization with techniques in the use of computer-derived information services. Olejar.		1-2	F or Sp	2
98	PHARMACY MANAGEMENT II. A study of community pharmacy in the distribution of pharmaceutical products. Comprises a study of personnel policies and training; store layout, design, location, and organization; merchandise operations and control; and expense control and analysis. Textbooks: Goldstein, Case Problems in Community Pharmacy Management and Coleman, Profitable Drugstore Management. Chambers.	Pharmacy Admin. 96	3	Sp	3
99	PHARMACEUTICAL LAW. A study of the laws affecting the profession of pharmacy and a limited study of selected laws affecting retailers. Work, McAllister.		2	Sp	2

THE BASIC SCIENCES

51	BACTERIOLOGY. The general principles and techniques of bacteriology and the relations of microorganisms to sanitation, agriculture, medicine and industry. Straughn, Manire.	Chem 11-21	4	Sp	3
93	PHYSIOLOGY. A general course in mammalian physiology with emphasis on the various organ systems and their interrelationships. Staff.	Zool 41, Chem 11-21	4½	F	3
101, 102	PHARMACOLOGY. This course is intended to give an appreciation of the general principles of pharmacology and an understanding of the mechanism of action of the more important agents of modern therapeutics. Staff.	All preceding courses in Chem, Zool, Bact, and Physiology	3½	F,Sp	2

COURSES IN ACADEMIC DEPARTMENTS

Chemistry

11	GENERAL DESCRIPTIVE CHEMISTRY. Staff.	Corequisite, Chemistry 11L	3	F,Sp	3
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Number	Description	Prerequisites	Credit	Sem.	Hours/Week	
					Lec	Lab
	QUANTITATIVE CHEMISTRY LABORATORY. Staff.	Corequisite, Chemistry 11	1	F,Sp	3	3
	GENERAL DESCRIPTIVE CHEMISTRY. Staff.	Chem 11, Corequisite 21L	3	F,Sp	3	
	QUANTITATIVE CHEMISTRY LABORATORY. Techniques for quantitative acid-base redox, and complexometric titrimetry. Gravimetric analysis. Total salt ion exchange analysis. (Transfer students who have not had quantitative analysis in their previous courses will take this laboratory.) Staff.	Chem 11, Corequisite 21	1	F,Sp		3
	MODERN ANALYTICAL METHODS FOR SEPARATION AND CHARACTERIZATION. The basic prerequisite or corequisite, Chemistry 61 (2 hour course). The basic principles of chemical separations, including chromatography and electrophoresis, and an introduction to analytical spectroscopy (visible, ultraviolet, and infrared) from a quantitative and structural viewpoint. Buck, Bursey, Knight, Murray.	Chem 21, Corequisite 41L	2	F,Sp	2	
	LABORATORY IN SEPARATIONS AND ANALYTICAL CHARACTERIZATION OF ORGANIC AND BIOLOGICAL COMPOUNDS. Applications of separation and spectroscopic techniques to organic compounds, including some of biological interest. Principles of chromatography and absorption spectroscopy; correlation of spectra with structure. (This laboratory serves as an organic chemistry laboratory for premedical and pre dental students.) Analytical and organic Staff.	Corequisite, Chem 41, Prerequisite or corequisite Chem 61	2	F,Sp		4
	MODERN ANALYTICAL METHODS FOR SEPARATION AND CHARACTERIZATION: SECOND COURSE. Intermediate analytical spectroscopy (magnetic resonance and mass spectroscopy); principles of Nernstian electrochemistry; acid-base solvent concepts; analytical coordination chemistry; analysis of kinetics and equilibria; radiochemical techniques. Buck, Bursey, Knight, Murray, Reiley, Isehour.	Chem 41, corequisite Chem 42L prerequisite or corequisite Chem 62	2	F,Sp	2	
	LABORATORY IN SEPARATIONS AND ANALYTICAL CHARACTERIZATION OF ORGANIC AND BIOLOGICAL COMPOUNDS. Applications and illustrations of modern analytical spectroscopic techniques; quantitative investigation of chemical properties through electrochemical, radiochemical, and new titrimetric techniques (some preparative experience is included with these studies.) (This course serves as an organic chemistry laboratory for premedical and pre dental students.) Analytical and organic Staff.	Prerequisite or corequisite, Chem 62; corequisite Chem 42	2	F,Sp		4

Number	Description	Prerequisites	Credit	Sem.	Hours Lec
61	INTRODUCTION TO ORGANIC CHEMISTRY. Molecular structure and its determination by modern physical methods, correlation between structure and reactivity and the theoretical basis for these relationships; classification of "reaction types" exhibited by organic molecules using as examples molecules of biological importance. (Course for students on new Chemistry curriculum) Hiskey, Little, McKee, Coke, Whitten, Rieke, Harrison, Kropp, Brookhart.	Chem 21	2	F,Sp	2
62	INTRODUCTION TO ORGANIC CHEMISTRY. Molecular structure and its determination by modern physical methods, correlation between structure and reactivity and the theoretical basis for these relationships; classification of "reaction types" exhibited by organic molecules using as examples molecules of biological importance. (This course is for students on the new Chemistry curriculum.) Hiskey, Little, McKee, Coke, Whitten, Rieke, Harrison, Kropp, Brookhart.	Chem 21	2	F,Sp	2

ECONOMICS

31	GENERAL ECONOMICS I. An introduction to economic principles, problems, and policies. Staff.		3	F,Sp	3
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BUSINESS ADMINISTRATION

74	GENERAL ACCOUNTING. Basis for understanding, evaluating and interpreting Accounting information. Accounting process, determination of cost and income, sources and uses of capital, reporting, changing price levels. Terrell; Staff.		3	F,Sp	3
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ENGLISH

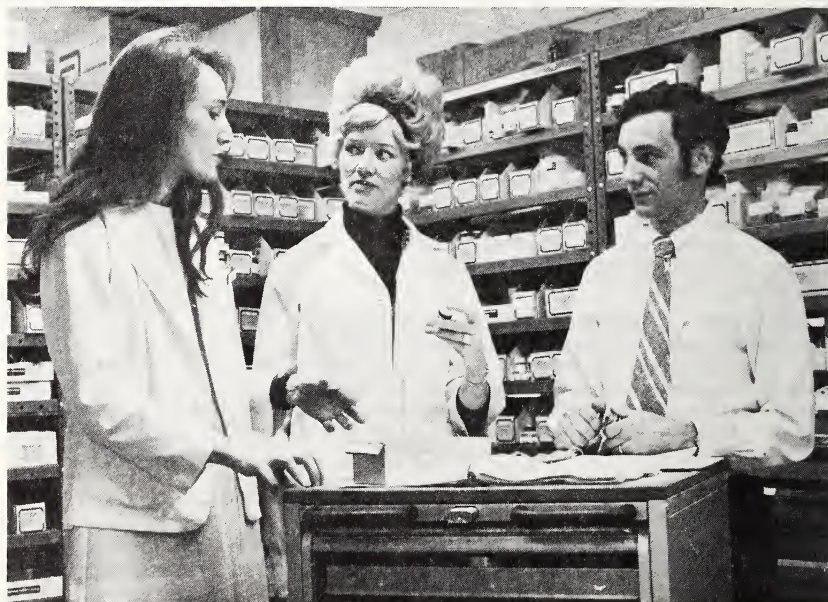
1	ENGLISH COMPOSITION AND RHETORIC. Required of all students, except those qualifying by placement test for English 2. Powers, Director, Staff.		3	F,Sp	
2	ENGLISH COMPOSITION AND RHETORIC. Required of all students except those qualifying by placement test for English 21. Powers, Director; Staff.		3	F,Sp	
21	ENGLISH LITERATURE. Substantial readings in Chaucer, Shakespeare and Milton. Powers, Director; Staff.	English 2	3	F,Sp	

Number	Description	Prerequisites	Credit	Sem.	Hours/Week	
					Lec	Lab
THEMATICS						
2	INTRODUCTION TO MATHEMATICAL ANALYSIS. Numbers systems, inequalities, equations and graphs, trigonometric functions, inverse trigonometric functions, linear functions, conic sections, mathematical induction. logarithmic and exponential functions, complex numbers. Staff.		3	F		
	CALCULUS WITH ANALYTIC GEOMETRY. An integrated treatment of analytic geometry and the differential and integral calculus of functions of one variable. Staff.	Math 15 or satisfying scores on qualifying tests	3	F,Sp		
PHYSICAL EDUCATION						
	PHYSICAL EDUCATION. Required of freshman men. Staff.		1	F,Sp	4 hrs.	week
	PHYSICAL EDUCATION. Required of freshman women. Staff.		1	F,Sp	4 hrs.	week
ZOOLOGY						
	PRINCIPLES OF ZOOLOGY. Prerequisite to all other courses in Zoology. Principles, problems and experimental methods of animal biology; basic similarities of all living organisms; organ systems and their physiology; embryology, genetics, organic evolution, ecology; survey of the major animal phyla. Staff.		4	F,Sp	3	3
	INTRODUCTORY VERTEBRATE ZOOLOGY. Especially designed for premedical, pre-dental, and pharmacy students. Fundamentals of vertebrate anatomy, physiology, histology, embryology, classification, and nomenclature. Mueller, Terry, assistants.	Zool 11	4	F,Sp	3	3
PUBLIC HEALTH						
	SURVEY OF PUBLIC HEALTH. Content includes history and philosophy of public health, organization of health agencies and services, current community health problems, issues affecting health services delivery, trends in health services and medical care in the U.S. and consideration of the role of the pharmacist in community health affairs. Staff.	Permission of instructor	3	Sp		

SPECIAL SCHOOL OF PHARMACY PROGRAMS

Drugstore Experience

The Pharmacy Law of North Carolina requires that a candidate for license to practice pharmacy submit evidence of not less than forty-eight months of practical pharmacy experience. However, it allows successful college work leading to the degree of Bachelor of Science in Pharmacy not to exceed thirty-six months to be credited in lieu of practical experience. By a special provision of the Board of Pharmacy, three months of undergraduate research experience when properly approved by the Board may be credited in addition to the thirty-six months described above. At least three months of practical pharmacy experience must be acquired following graduation. No practical experience can be credited prior to the completion of one year of college work.



In order to validate any experience as mentioned above, it is necessary for the candidate to register with the North Carolina Board of Pharmacy at the time he begins his practical experience training and to discharge the requirements of a program of supervised experience. The Board of Pharmacy will not allow credit for claims of practical experience required under the pharmacy laws

unless such claims can be corroborated by records on file in the Board office showing the beginning and ending of the practical experience claimed as supplied by the applicant during his training period and by the pharmacist who supervised the practical experience during the training period. Full details may be secured from the North Carolina Board of Pharmacy, Box 471, Chapel Hill.

Student to Student Drug Abuse Project

Advanced pharmacy students have an opportunity to join the Student to Student Drug Abuse Project in presenting programs to secondary and junior high school students regarding the serious drug abuse situation. The UNC School of Pharmacy enjoys a national reputation because of its impressive work in this area.

Intensive training is given to pharmacy students in drug abuse before they go out to present programs.

After speaking to assembly groups, our students get together with small numbers of young students to answer their questions regarding drugs.



This program is recommended by the N. C. Department of Public Instruction.

Medication Assistants Program

This program is sponsored by the hospital, in cooperation with the University of North Carolina School of Pharmacy. Under this program, pharmacy students who have completed their third year of schooling are eligible to apply for part-time and summer work in the hospital — for which they are paid, and for which they also receive credit towards their required year of internship.



In addition, the plan offers pharmacy students an opportunity to learn the basics of “clinical pharmacy” — the new trend in the profession aimed at making RxMen more “patient-oriented” and less “product-oriented.”

SCHOLARSHIPS, FELLOWSHIPS, LOAN FUNDS

Undergraduate Scholarships

The scholarships that follow are awarded to worthy and needy students of pharmacy who subscribe to the requirements of the donors. A *C* or better average must be maintained each semester in order to be eligible for a scholarship throughout the year. Application for a scholarship must be submitted to the Dean of the School of Pharmacy on or before June 1.

THE AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION SCHOLARSHIPS. This foundation offers annually \$600 to be utilized by the School for undergraduate pharmacy scholarships, and the School awards these scholarships to college students enrolled in the fourth or fifth-year classes who are in need of financial aid, and who have established evidence of competence and scholastic ability (maintaining a rank in the upper one-quarter of their class or an average of *B* as a minimum).

THE DAVID ASTOR DOWDY PHARMACY SCHOLARSHIP. (Established in 1948.) Endowed by the Mann Drug Stores of High Point. The fund maintains a pharmacy scholarship valued at \$300 annually. The tenure of the scholarship is for one year, provided the holder of the award maintains high standards both in character and in scholarship, but it may be renewed each year until graduation at the end of five years. The basis of selection shall be high scholastic rank, character, promise of professional aptitude, and financial need.

The scholarships that follow are valued at \$250 or more for each.

THE JUSTICE DRUG COMPANY SCHOLARSHIPS. Three in number. Established in 1931 by the Justice Drug Company of Greensboro.

THE SCOTT DRUG COMPANY SCHOLARSHIPS. Three in number. Established in 1931 by the Scott Drug Company of Charlotte.

THE W. H. KING DRUG COMPANY SCHOLARSHIPS. Two in number. Established in 1931 by the W. H. King Drug Company of Raleigh.

THE VIVIAN SPRADLIN SMITH SCHOLARSHIP. (Established in 1932 by the Woman's Auxiliary of the North Carolina Pharmaceuti-

cal Association as a loan fund and converted in 1946 as an endowed scholarship. It was named to honor Mrs. Vivian Spradlin Smith in 1959.) This scholarship is given annually to a deserving pharmacy student who shows both need and ability. Its value for the current year was \$300.

C. B. MILLER MEMORIAL SCHOLARSHIP. Established in 1945 by Mr. B. R. Ward of Goldsboro, in memory of Mr. C. B. Miller, of Goldsboro.

OWENS, MINOR & BODEKER SCHOLARSHIP. Established by the parent organization in 1945 and continued by Owens, Minor & Bodeker, Inc., of Richmond, Virginia.

THE CHARLOTTE WOMEN'S DRUGGIST AUXILIARY SCHOLARSHIP. Established in 1953 by the Charlotte Women's Druggist Auxiliary.

THE VIRGINIA TOWNSEND HAYES SCHOLARSHIP. Established in 1954 by the Greensboro Drug Club Auxiliary and named in 1963 to honor Mrs. P. A. Hayes.

THE McKESSON & ROBBINS SCHOLARSHIPS. Two in number. Established in 1955 by the McKesson & Robbins, Inc. of Charlotte.

THE NORTH CAROLINA PHARMACEUTICAL RESEARCH FOUNDATION SCHOLARSHIPS. Three in number. Established in 1955.

THE ECKERD SCHOLARSHIPS. Three in number. Established in 1957 by the Eckerd Drug Stores. (Two additional scholarships were awarded to prepharmacy students in the General College.)

THE NORTH CAROLINA MUTUAL WHOLESALE DRUG COMPANY SCHOLARSHIPS. Two in number. Established in 1960 by the North Carolina Mutual Wholesale Drug Company of Durham.

THE BEARD SCHOLARSHIP. Established in 1960 by a gift from Mrs. Gladys A. Beard of the J. G. Beard Memorial Fund of the North Carolina Pharmaceutical Research Foundation as an endowment to support undergraduate scholarships.

THE MAY SCHOLARSHIP. Established in 1960 through a bequest by T. H. May of Wake Forest to the North Carolina Pharmaceutical Research Foundation, endowing the Thomas H. and Bertie Redford May Memorial Fund, with its income designated for financial aid to worthy undergraduate students.

THE COMMUNITY PHARMACISTS SCHOLARSHIP. Established in 1962 by the O'Hanlon-Watson Drug Company, Inc. of Winston-Salem, as a Christmas remembrance in the name of the pharmacists for a worthy student from the area. Its value for the current year was \$300.

THE PEABODY DRUG COMPANY SCHOLARSHIPS. One award for \$300.00. Established in 1962 by the Peabody Drug Company of Durham.

THE MYRA KINLAW MEMORIAL SCHOLARSHIP AWARD. Established in 1962 by contributions to the North Carolina Pharmaceutical Research Foundation from the members of the graduating class for an endowed scholarship to the memory of a classmate who lost her life in an auto accident just before Commencement. The annual scholarship is designed for a member of the rising senior class, preferably a woman student, who best qualifies on the basis of scholarship, moral character, professional and general student activities, promise of professional attainment, and financial need. The recipient is determined by a committee consisting of the dean, two faculty members selected by the dean, president of student body, and senior past president of Kappa Epsilon. The award of this scholarship for the following year is announced at the Awards Night program each spring.

LUCILLE SWARINGEN ROGERS SCHOLARSHIP. Established in 1966 by the Women's Auxiliary of the N. C. Pharmaceutical Association. This scholarship is given annually to a deserving pharmacy student who shows both need and ability. The value is \$450 for the current year.

HEALTH PROFESSIONS SCHOLARSHIP AND LOAN PROGRAM. Public Law 89-290 (Health Profession Educational Assistance Amendments of 1965) provides that the Surgeon General shall make grants to each accredited school of medicine, osteopathy, dentistry, optometry, pharmacy and podiatry for scholarship to be awarded to eligible students. These scholarships are available only to such students who without this financial assistance would not be able to pursue the required studies. Scholarships are to be awarded to full-time students who meet the year-class requirements in addition to financial need. Applications for pharmacy students are approved by the Scholarship Committee of the School of Pharmacy. The scholarship may cover such portion of

the cost of the student's tuition, fees, books, equipment, and living expenses as the school finds necessary, but it may not exceed \$2500 for any year. Financial eligibility is determined by results of the Parents Confidential Statement.

The scholarship that follows is valued as stated:

JOHN W. DARGAVEL FOUNDATION SCHOLARSHIP. Valued at \$200 and established in 1964 by the National Association of Retail Druggists for a worthy student in the third, fourth or fifth year class

Scholarship loans valued at \$250:

THE NORTH CAROLINA PHARMACEUTICAL ASSOCIATION SCHOLARSHIP LOANS. Three in number. Established as scholarships in 1938 by the North Carolina Pharmaceutical Association. In 1954 these grants were converted to non-interest bearing loans.

Pharmacy students are also eligible for scholarships, usually valued at \$175 per year, administered by the University Scholarship Committee. The application form should be obtained from the Director of Student Aid, 2 Hanes Hall, and submitted before March 15.

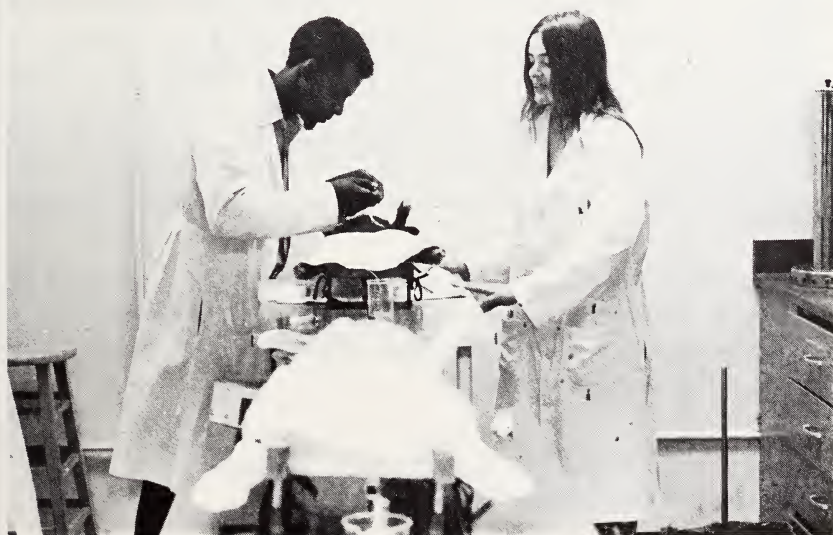
North Carolina Pharmaceutical Research Foundation, Inc.

In December, 1946, the North Carolina Pharmaceutical Research Foundation was established by the pharmacists of North Carolina through their state association. Under the terms of its charter the "Foundation is a non-profit, charitable corporation carrying no capital stock and will have the full power to receive donations and bequests; can purchase, lease and otherwise acquire property; and can pay in full or supplement salaries of persons engaged in pharmaceutical research and education. It can also donate equipment, materials or other facilities for the development, expansion and extension of educational, research and service projects thereby promoting the pharmaceutical service of the State and the South through the University at Chapel Hill." The general purposes of the Foundation are to foster and promote the growth, progress, and general welfare of pharmaceutical education and research at the School of Pharmacy and throughout the state. Its main objectives are (1) research fellowships of \$2,500 a

year to worthy graduate students for specialized training in pharmacy; (2) special equipment and library materials; (3) experimental culture of drug plants; (4) great teachers secured through salary supplements; and (5) an information bureau at the School of Pharmacy to act as liaison between the new discoveries and the practicing pharmacists.

Graduate Assistants

A number of graduate assistantships have been established in the School of Pharmacy by the University at Chapel Hill. The stipend for the assistantships is determined annually and covers a nine-month period. Holders of these assistantships are expected to devote from twelve to fifteen hours a week in the supervision of laboratory classes and the checking of reports. This allows assistants to carry approximately two-thirds of the regularly scheduled graduate program each semester.



Graduate Scholarships and Fellowships

TEACHING ASSISTANTSHIPS: Provide a basic stipend of \$2,700 to \$3,100 for nine months service and waiver of out-of-state fees. Total teaching time required is 12 to 15 hours per week.

Additional support is available for the summer months. Positions are also available for predoctoral students as research assistants on specific research grants. These furnish \$2,400-\$3,000 for the calendar year and waiver of out-of-state tuition.

RESEARCH FELLOWSHIPS: The North Carolina Pharmaceutical Research Foundation, Inc., sponsors a number of fellowships for qualified graduate students. Recipients receive an annual stipend of \$2,400 plus tuition. This is a non-service award.

MEDICINAL CHEMISTRY TRAINING GRANT: The School holds a Public Health Service Training Grant in Medicinal Chemistry. Qualified students may be granted non-service appointments with a yearly basic stipend of \$2,400 to \$2,800 with a \$500 allowance per dependent and payment of tuition.

POST-DOCTORATE FELLOWSHIPS: A number of post-doctorate fellowships in Medicinal Chemistry are available for holders of doctoral degrees in medicinal chemistry or in a related field of the pharmaceutical sciences — organic chemistry, biochemistry, etc. — providing the candidate has appropriate minimal academic training and experience to conduct exploratory research on medicinal agents of synthetic or natural origin. Appointments are on a 12 month basis. Stipends vary depending upon experience and are in the range of \$5,500-\$8,000 for twelve months with additional allowances for travel and University fees. Inquiries should be addressed to the Post-Doctorate Committee, School of Pharmacy, University of North Carolina, Chapel Hill, North Carolina 27514.

HOSPITAL PHARMACY RESIDENCY: Provides a stipend of \$9,200 for 24 months service and training. Total time required is 20 hours per week during academic year and 40 hours per week during the summer months.

American Foundation for Pharmaceutical Education Fellowships

The Foundation offers a limited number of fellowships for students seeking graduate degrees in pharmaceutical subjects. These fellowships are open to students (men and women) qualified for registration in approved graduate schools or colleges for one or more of the following major fields: pharmacy, medicinal

chemistry, pharmacy administration, pharmacology, and pharmacognosy. Each fellow will receive from the Foundation a stipend to cover the year of his appointment, plus an allowance for tuition and miscellaneous fees in cases where these expenses are not remitted. Information regarding these fellowships may be obtained by writing to the American Foundation for Pharmaceutical Education, 777 Fourteenth St., N.W., Washington, D. C. 20005.

Special Loan Funds

THE RHO CHI LOAN FUND. Established in 1933. The Xi Chapter of the Rho Chi Honorary Society has established a loan fund for deserving students of pharmacy.

THE WINSTON-SALEM DRUGGISTS' LOAN FUND. Organized druggists in Winston-Salem gave \$200 in 1942 as an addition to the loan fund used to assist worthy student of pharmacy.

THE T. M. STANBACK LOAN FUND. Established in 1962 by T. M. Stanback of Salisbury by a gift of \$5,000 to be loaned to worthy students of pharmacy.

The loan funds of the University, the North Carolina Medical Care Commission, the North Carolina Rural Rehabilitation Corporation, the John W. Dargavel Foundation, and the North Carolina Pharmaceutical Association are discussed on pages 32-33.

AWARDS AND ORGANIZATIONS

THE PHARMACY FACULTY AWARD. — (Established in 1958.) An engraved bronze mortar and pestle is given annually by the faculty of the School of Pharmacy and awarded to the student in the graduating class making the highest average during the four years of study.

THE BUXTON WILLIAMS HUNTER MEDAL. — (Established in 1937.) A gold medal is offered annually by Mr. D. R. Davis, of Williamston, in memory of his great uncle, the late Mr. Buxton Williams Hunter, of New Bern, to that graduating student who excels in campus citizenship and scholarship.

THE LILLY ACHIEVEMENT AWARD. — (Established in 1966.) This gold medal is given by Eli Lilly and Company of Indianapolis and awarded to a graduating student for superior scholastic and professional achievement. The recipient is determined by the faculty.

THE SCHOOL OF PHARMACY STUDENT BODY AWARD. — (Established in 1948.) A mortar and pestle plaque is given annually by the student body of the School of Pharmacy to the member of the graduating class who has demonstrated the highest qualities of character, deportment, scholarship, participation in extra-curricular activities, and promise of future distinction in the profession. The winner of the plaque is determined by a special committee composed of representatives from each recognized organization in the School of Pharmacy.

THE SPECIAL FACULTY AWARD — Awarded to a graduating student for performance of outstanding services to the School of Pharmacy in an effective and exemplary manner.

PHARMACY SENATE AWARD. — (Established in 1950.) A bronze mortar and pestle in the name of the Pharmacy Senate is awarded to the graduating student who has shown the greatest loyalty and service to the School of Pharmacy. The recipient is determined by a committee of students and faculty appointed by the Pharmacy Senate.

KAPPA EPSILON AWARD. — (Established in 1947.) The Lambda Chapter of Kappa Epsilon, national pharmaceutical fraternity for women, awards annually a silver tray to a fourth or fifth year

woman student in the School of Pharmacy who has demonstrated qualities of leadership, character, service, and scholarship. The recipient is selected by eight persons associated with the School of Pharmacy and elected by the chapter.

McKESSON & ROBBINS AWARD — Presented on behalf of McKesson & Robbins, Inc., to the President of the Student Chapter, American Pharmaceutical Association.

MERCK AWARDS. — (Established in 1941.) Two awards, each consisting of two reference works, are given annually by Merck & Co., Inc., to graduating students for noteworthy achievement in pharmacy. The recipients are determined by the faculty.



BRISTOL AWARD. — (Established in 1951.) An award consisting of a useful reference work is given annually by Bristol Laboratories, Inc., to a graduating student for noteworthy achievement in pharmacy. The recipient is determined by the faculty.

THE REXALL AWARD.—(Established in 1958.)A mounted replica of an antique bronze mortar and pestle is given annually by the Rexall Drug Company and awarded to a graduating student for high achievement in the pharmacy administration courses.

THE M. L. JACOBS MEMORIAL AWARD.—(Established in 1951.) In honor of the memory of Dr. M. L. Jacobs, Dean of the School of Pharmacy from 1946 to 1950, the Xi Chapter of Rho Chi annually awards a prize in the form of a gold key to that student demonstrating the greatest excellence in medicinal chemistry.

RHO CHI FIRST YEAR AWARD. (Established in 1933.) The Xi Chapter of Rho Chi annually awards a prize in the form of a suitable reference work to that student who shows the highest scholarship in the first year of the pharmacy curriculum.

DISTINGUISHED SERVICE AWARD.—(Established in 1961.) An engraved mortar and pestle is presented to an individual other than a student or member of the Pharmacy Faculty who has made outstanding contributions to the instruction, research, and/or service function of the School of Pharmacy.

FRATERNITY SCHOLASTIC AWARD. — (Established in 1964.) A plaque is presented annually to the pharmacy fraternity whose members attain the highest scholastic average in the preceding two semesters. The three professional fraternities, Kappa Epsilon, Kappa Psi, and Phi Delta Chi, who participate in the competition, sponsor the award to stimulate academic achievement.

THE XI CHAPTER OF RHO CHI.—(Established in 1929.) Charters for chapters of this national pharmaceutical society are granted only to groups in colleges that are members in good standing of the American Association of Colleges of Pharmacy. Eligibility for membership in the society is based on high attainment in scholarship, character, personality, and leadership. All candidates selected for membership must have completed 105 semester hours, or the equivalent, of college work, and they must be approved by the Dean of the School of Pharmacy.

THE UNIVERSITY OF NORTH CAROLINA STUDENTS' BRANCH OF THE NORTH CAROLINA PHARMACEUTICAL ASSOCIATION. — (Established in 1936.) The aim of the organization is to unite students of pharmacy for mutual assistance, encouragement, and improvement, and to advance the science and art of pharmacy.

THE UNIVERSITY OF NORTH CAROLINA SCHOOL OF PHARMACY STUDENTS' CHAPTER OF THE AMERICAN PHARMACEUTICAL ASSOCIATION. — (Established in 1952.) It is the purpose of this organization to increase interest in pharmaceutical problems and progress at the nation level. The group holds joint meetings with the Students' Branch of the North Carolina Pharmaceutical Association.





