

THE UNIVERSITY  
OF GEORGIA  
BULLETIN 1974

SCHOOL  
OF PHARMACY





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OF GEORGIA  
BULLETIN 1974  
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# CALENDAR

## 1974-75

### **Fall Quarter 1974**

- September 13  
Residence halls open
- September 16  
Orientation and counseling
- September 17  
Late registration
- September 18  
Classes begin
- November 26  
Classes end
- November 27-December 1  
Thanksgiving recess
- December 2-6  
Examinations
- December 9  
Christmas vacation begins

### **Winter Quarter 1975**

- January 2  
Residence halls open
- January 3  
Late registration
- January 6  
Classes begin
- February 27  
Constitution examination
- March 14  
Classes end
- March 15-20  
Examinations
- March 21-25  
Spring recess

### **Spring Quarter 1975**

- March 24  
Residence halls open
- March 25  
Late registration
- March 26  
Classes begin
- May 14  
Honors Day
- June 3  
Classes end
- June 4-9  
Examinations
- June 13  
Graduation

### **Summer Quarter 1975**

- June 16  
Registration
- June 17  
Classes begin
- July 4  
Holiday
- July 22  
Short term classes end
- July 24-25  
Short term examinations
- August 13  
Through term classes end
- August 14-16  
Through term examinations
- August 20  
Graduation

# UNIVERSITY SYSTEM OF GEORGIA

## BOARD OF REGENTS

Jesse Hill, Jr., *Atlanta*  
State-at-Large (1973-1978)

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State-at-Large (1970-1977)

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State-at-Large (1974-1981)

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State-at-Large (1972-1976)

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Second District (1968-1975)

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Third District (1968-1975)

John R. Richardson, *Conyers*  
Fourth District (1970-1977)

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Fifth District (1968-1975)

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Sixth District (1971-1978)

James D. Maddox, *Rome*  
Seventh District (1973-1980)

Charles A. Harris, *Ocilla*  
Eighth District (1971-1978)

P. Robert Smith, *Winder*  
Ninth District (1973-1980)

Carey Williams, *Greensboro*  
Tenth District (1972-1979)

## OFFICERS AND STAFF

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John A. Bell, Jr., *Vice Chairman*

George L. Simpson, Jr., *Chancellor*

John O. Eidson, *Vice Chancellor*

John W. Hooper, *Associate Vice Chancellor*

James E. Boyd, *Vice Chancellor — Academic Development*

Mario J. Goglia, *Vice Chancellor — Research*

Howard Jordan, Jr., *Vice Chancellor — Services*

Shealy E. McCoy, *Vice Chancellor — Fiscal Affairs and Treasurer*

Harry B. O'Rear, *Vice Chancellor — Health Affairs*

Frank C. Dunham, *Vice Chancellor — Construction and Physical Plant*

James L. Carmon, *Assistant Vice Chancellor — Computing Systems*

Robert M. Joiner, *Assistant Vice Chancellor — Communications*

Mrs. Hubert L. Harris, *Assistant Vice Chancellor — Personnel*

Haskin R. Pounds, *Assistant Vice Chancellor*

Henry G. Neal, *Executive Secretary*

Harry H. Murphy, *Director of Public Information*

C. C. Murray, *Director Interinstitutional Programs in International Affairs*

# THE UNIVERSITY OF GEORGIA

## OFFICERS OF GENERAL ADMINISTRATION

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Albert Bruce Jones, *Assistant to the President*  
\* *Assistant to the President*

### Provost

S. William Pelletier, *Provost*  
Walter Paschal Reeves, Jr., *Associate to the Provost*  
James Benson Kenney, *Associate to the Provost*  
Sidney Edward Brown, *Assistant to the Provost and*  
*Director of Faculty Records*  
Patricia Teet, *Assistant to the Provost*

### Vice President for Instruction

William L. Hays, *Vice President*  
\* *, Assistant Vice President*  
Ted Lewis Hammock, *Assistant to the Vice President*  
Fred Thurman Colhard, *Assistant to the Vice President*  
Ernest W. Smith, *Assistant to the Vice President*

### Vice President for Research

Robert Cletus Anderson, *Vice President*  
Charles Herbert Douglas, *Assistant Vice President and*  
*Director of General Research*  
William Oates Burke, *Assistant to the Vice President*  
*and Director of University Research Park*

### Vice President for Services

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Gene A. Bramlett, *Assistant Vice President*  
Robert Louis Rowan, *Administrative Assistant*

### Vice President for Development and University Relations

H. Perk Robins, *Vice President*  
J. Donald Elam, *Assistant Vice President*  
Louis T. Griffith, *Dean of University Relations*

### Vice President for Business and Finance

Allan Wedford Barber, *Vice President*  
Jenkins Comer Whitehead, *Assistant to the Vice*  
*President*

### Libraries

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Helen Joanne Harrar, *Associate Director*  
Donald Petty, *Executive Assistant*

### Registrar and Admissions

Walter Newman Danner, *Registrar*  
Morris Overton Phelps, *Director of Admissions*

### Student Affairs

Mary Louise McBee, *Dean*  
\* *Associate Dean*  
Charles E. Kozoll, *Associate Dean*

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\*Position vacant at time of publication.







# THE SCHOOL OF PHARMACY

## OFFICERS OF ADMINISTRATION

Waters, Kenneth Lee, *Professor of Pharmacy and Dean of the School of Pharmacy*  
A.B., Lynchburg; M.S., Georgia; Ph.D., Maryland

Entrekin, Durward Neal, *Professor of Pharmacy and Associate Dean of the School of Pharmacy*  
B.S., Pharmacy, Georgia; M.S., Ph.D., Florida

Wickliffe, Billie Winell, *Assistant to the Dean and Assistant Professor of Pharmacy*  
B.S., B.S. Pharmacy, M.S., Ph.D., Georgia

Hammond, Alfred Gene, *Assistant to the Dean for Business Affairs*  
B.B.A., Georgia

Wilson, Robert Cumming, *Dean Emeritus of the School of Pharmacy*  
Ph.C., University of the South

Zachert, Virginia, *Educational Consultant, Part-Time*  
A.B., Georgia State Women's College; M.A., Emory; Ph.D., Purdue

## THE FACULTY

### Department of Pharmacy

*Kay Oliver  
Curtis Drake*

Ansel, Howard Carl, *Professor of Pharmacy and Head of the Department of Pharmacy*  
B.S. Pharmacy, Toledo; M.S., Ph.D., Florida

Baker, Raymond Stanley, *Instructor in Pharmacy — Clinical Pharmacist, Part-time, Co-staffed with St. Mary's Hospital*  
B.S. Pharmacy, Mercer

Beacham, Norma V., *Pharmacist, University Health Services and Clinical Instructor, School of Pharmacy*  
B.S. Pharmacy, North Dakota State College

Brackett, Colquitt Prater, *Instructor in Pharmacy — Clinical Pharmacist*  
B.S. Pharmacy, Georgia

Bremer, Martin L., *Instructor in Pharmacy — Clinical Pharmacist, Part-time, Co-staffed with St. Mary's Hospital*  
B.S. Pharmacy, Georgia

Cadwallader, Donald Elton, *Professor of Pharmacy*  
B.S. Pharmacy, Buffalo; M.S., Georgia; Ph.D., Florida

Chaffin, James T., Jr., *Pharmacist, University Health Services and Clinical Instructor, School of Pharmacy*  
B.S. Pharmacy, Georgia

Dickerson, Joe Bill, *Instructor in Pharmacy — Clinical Pharmacist*  
B.S., Agriculture, B.S. Pharmacy, Georgia

Fechtel, Edward John, Jr., *Assistant Professor, Lecturer in Pharmacy, Part-time, Co-staffed with St. Mary's Hospital*  
B.B.A., Notre Dame; M.B.A., Emory

Jun, Hung Won, *Temporary Assistant Professor of Pharmacy*  
B.S. Pharmacy, Taegu, Korea; M.S., Rhode Island; Ph.D., Alberta

Longe, Robert L., *Instructor in Pharmacy*  
B.S. Pharmacy, Georgia; Pharm. D., University of Tennessee

McKeller, Billie Ray, *Instructor in Pharmacy — Clinical Pharmacist, Part-time, Co-staffed with Athens General Hospital*  
B.S. Pharmacy, Auburn

Meunier, James Frank, *Instructor in Pharmacy — Clinical Pharmacist, Part-time, Co-staffed with Athens General Hospital*  
B.S. Pharmacy, Georgia

Needham, Thomas Edward, Jr., *Assistant Professor of Pharmacy*  
B.S. Pharmacy, M.S., Ph.D., Rhode Island

Price, James Clarence, *Associate Professor of Pharmacy*  
B.S. Pharmacy, Arkansas; M.S., Utah; Ph.D., Rhode  
Island

Purcell, Jerry Paul, *Temporary Instructor in Pharmacy*  
B.S. Pharmacy, University of Georgia

Stegeman, John Foster, *Special Lecturer in Therapeutics*  
B.S., Georgia; M.D., Emory

Sumner, Edward Donald, *Associate Professor of*  
*Pharmacy*  
B.S., Wofford College; B.S. Pharmacy, Medical College  
of South Carolina; M.S., Ph.D., North Carolina

Tebo, Lestina Smith, *Instructor in Pharmacy and Advisor*  
*to Pre-Pharmacy Students*  
B.S. Pharmacy, M.S., Georgia

Thomas, Patricia Cole, *Instructor in Pharmacy — Clinical*  
*Pharmacist*  
B.S. Pharmacy, Georgia

Warren, Flynn Wilford, *Instructor in Pharmacy — Clinical*  
*Pharmacist*  
B.S. Pharmacy, South Carolina; M.S., Georgia

Warren, James W., Jr., *Instructor in Pharmacy*  
B.S. Pharmacy, University of South Carolina; M.S.,  
Butler University

Whitlow, Ruth J., *Temporary Instructor in Pharmacy —*  
*Clinical Pharmacist*  
B.S. Pharmacy, Georgia

Whitworth, Clyde Weydell, *Associate Professor of*  
*Pharmacy*  
B.S. Pharmacy, M.S., Georgia; Ph.D., Florida

Wickliffe, Billie Winell, *Assistant Professor of Pharmacy*  
B.S., B.S. Pharmacy, M.S., Ph.D., Georgia

## Department of Medicinal Chemistry

LaRocca, Joseph Paul, *Professor of Medicinal Chemistry*  
*and Head, Department of Medicinal Chemistry*  
B.S. Pharmacy, Colorado; M.S., North Carolina; Ph.D.,  
Maryland

Blanton, Charles DeWitt, Jr., *Associate Professor of*  
*Medicinal Chemistry*  
B.S., Western Carolina; Ph.D., Mississippi

Haebeler, Elizabeth T., *Instructor in Medicinal Chemistry*  
B.A., Chemistry, University of Pennsylvania

Honigberg, Irwin Leon, *Associate Professor of Medicinal*  
*Chemistry*  
B.S. Pharmacy, Connecticut; Ph.D., North Carolina

Martinelli, Louis Carl, *Assistant Professor of Medicinal*  
*Chemistry*  
Pharm.D., Ph.D., California

Millikan, Francis Ford, *Professor/Emeritus of Medicinal*  
*Chemistry*  
B.S. Pharmacy, M.S. Pharm., Colorado; M.S. Chemistry,  
Brooklyn Polytechnic Institute

Sternson, Larry Allen, *Assistant Professor of Medicinal*  
*Chemistry*  
B.S. Pharmacy, Ph.D., Illinois

Stewart, James Thomas, *Associate Professor of Medicinal*  
*Chemistry*  
B.S. Pharmacy, M.S., Auburn; Ph.D., Michigan

Thompson, Bobby Blackburn, *Associate Professor of*  
*Medicinal Chemistry*  
B.S., Berry; M.S., Ph.D., Mississippi

## Department of Pharmacy Administration

Jowdy, Albert Willoughby, *Professor of Pharmacy*  
*Administration and Head, Department of Pharmacy*  
*Administration & Director of Pharmaceutical Services*  
B.S. Pharmacy, M.S., Ph.D., North Carolina

Baker, Donald E., *Adjunct Assistant Professor of*  
*Pharmacy Administration*  
B.S. Pharmacy, Ohio State

*Jeannette Finch*  
*Billy Brewer*  
*Gay Eakin*

Braucher, Charles Landis, *Professor of Pharmacy Administration*  
B.S. Pharmacy, Philadelphia College of Pharmacy;  
M.A., Nebraska; Ph.D., Purdue

Copp, Wayne M., *Instructor in Pharmacy — Clinical Pharmacist*  
B.S. Pharmacy, Pharm. D., University of Tennessee

Dobbs, Willis Frank, *Associate Professor of Pharmacy Administration*  
B.S. Pharmacy, M.B.A., Georgia

Kotzan, Jeffrey Anthony, *Assistant Professor of Pharmacy Administration*  
B.S. Pharmacy, M.S., Ph.D., Purdue

Mikeal, Robert L., *Associate Professor of Pharmacy Administration*  
B.S. Pharmacy, West Virginia University; M.S., Ph.D., Purdue University

### **Pharmaceutical Services**

Riley, David Allen, *Instructor & Co-ordinator for Pharmaceutical Services, Co-staffed with Georgia Center for Continuing Education*  
B.S. Pharmacy, West Virginia; M.S., Georgia

Moore, Robert Conley, *Assistant Professor of Pharmacy Administration, Co-staffed with the Institute of Community and Area Development*  
B.S. Pharmacy, Georgia; Pharm.D., Tennessee

### **Department of Pharmacology** - *Long*

Wade, Adelbert Elton, *Professor of Pharmacology and Head, Department of Pharmacology*  
B.S. Pharmacy, M.S., Ph.D., Florida

Brown, Walter John, *Professor of Therapeutic Medicine, Part-time, Co-staffed with the University Health Service*  
M.D., Medical College of Georgia

Bunce, Rebecca, *Temporary Instructor in Pharmacology*  
B.S.A., M.S., Ph.D., Georgia

Iturrian, William Ben, *Associate Professor of Pharmacology*  
B.S. Pharmacy, Wyoming; Ph.D., Oregon State

Johnson, Henry Douglas, *Professor of Pharmacology*  
B.S. Pharmacy, M.S., Ph.D., Florida

Mokler, Corwin Morris, *Associate Professor of Pharmacology*  
B.A., Colorado College; M.S., Nevada; Ph.D., Illinois

Tobia, Alfonso Joseph, *Assistant Professor of Pharmacology*  
B.S. Pharmacy, St. Louis; M.S., Ph.D., Purdue

Walsh, Gerald Michael, *Assistant Professor of Pharmacology*  
B.S., Santa Clara; Ph.D., Oregon State

Ziance, Ronald Joseph, *Assistant Professor of Pharmacology*  
B.S. Pharmacy, Ph.D., Pittsburgh

### **Department of Pharmacognosy**

Schramm, Lee Clyde, *Associate Professor of Pharmacognosy and Head, Department of Pharmacognosy*  
B.S. Pharmacy, Ohio State; M.S., Ph.D., Connecticut

Gibson, Coy Avery, *Assistant Professor of Pharmacognosy*  
B.S. Pharmacy, South Carolina; M.S., Georgia; Ph.D., Rhode Island

# GENERAL INFORMATION

## HISTORY

In 1903, the committee on laws and disciplines of the Board of Trustees authorized the organization of a School of Pharmacy at The University of Georgia at Athens. At the same time, Dr. S. C. Benedict was appointed to the chair of Materia Medica in the school. Space was allocated in Terrell Hall for the school and six students enrolled for the 1904-1905 year. The educational objective of those six registrants was to matriculate for two years and receive a Ph.G. degree.

In January 1907, due to an illness of Dr. Benedict, Mr. Robert C. Wilson was elected Instructor in Pharmacy to relieve Dr. Benedict of many of the classroom activities. Dr. Benedict remained as dean until 1914, when Professor Wilson was placed in charge of the Department of Pharmacy as director. In 1924, Professor Wilson became dean of the School of Pharmacy and made his report to the Board of Trustees in that capacity. He noted, for the first time, that the school had included women students. Dean Wilson's continuous struggle to improve pharmacy in Georgia led to development of the first four year pharmacy degree in the nation, beginning in 1926. In 1939, the school moved to quarters in New College and was accredited by the American Council on Pharmaceutical Education, a rating which has been maintained continuously since that time.

Upon Dean Wilson's retirement in 1948, Dr. Kenneth L. Waters was named dean of the School of Pharmacy. Under Dean Waters' guidance the school grew in both undergraduate and graduate enrollment to the point where a new facility was deemed essential. The building was completed in 1964. One year later, the first students of the five year pharmacy program graduated.



## PURPOSE

The purpose of The University of Georgia School of Pharmacy is to provide for the comprehensive academic needs of the profession of pharmacy. Manpower needs of the profession are supplied through the school's undergraduate education program, which prepares students for the practice of pharmacy, and through its graduate program, which prepares individuals for professional specialization and for a career in teaching and research. The postgraduate educational needs of the profession are met by the school's continuing education and service programs. Faculty research supports all of these programs and contributes to the advancement of the body of pharmaceutical knowledge.

## FACILITIES

The School of Pharmacy is housed in facilities completed and occupied in the spring of 1964. Two basic concepts were incorporated into the design of the new building: 1) that it should be a functional facility conducive to learning; 2) that as many laboratory and research areas as possible should be on display. The first was considered basic to any educational building; the second was intended to stimulate interest in pharmacy among non-pharmacy students and interest in graduate work among undergraduate students.

The three floors and penthouse of the building contain a total of 96,000 square feet of space. The overall dimensions of the structure are 300 ft. by 96 ft. Basic construction is reinforced concrete and concrete block, with exterior windows of gray-tinted glass. The cost of construction and equipment was in excess of two million dollars.

The building is heated and air-conditioned by three systems serving the auditorium, main building, and animal quarters, respectively. In addition, separate temperature control of the exterior halls allows these to be used as buffer zones both in winter and in summer. Utilities supplied throughout the building include electricity, gas, water, circulating hot water, distilled water, steam, compressed air, and vacuum. Communications are served by an internal telephone and paging system in all areas, plus public telephone service in faculty offices.

## PROGRAM OF STUDY AND RESIDENCE

The *Bachelor of Science in Pharmacy* degree is awarded to students who successfully complete a five year study of prescribed courses. The first two years (pre-pharmacy) may be completed at any accredited institution of higher education. The last three years (professional) must be in residence at the School of Pharmacy. Nine quarters of residence in the professional program are required by the American Council on Pharmaceutical Education.

The University of Georgia Graduate School offers the degree Master of Science and Doctor of Philosophy in various specialty areas of the pharmacy school. (See Graduate School Bulletin.)

## INTERNSHIP

In order to become licensed to practice pharmacy in the state of Georgia, 1500 hours of full time internship must be served under the supervision of a pharmacist. Credit for internship may be received only after a student has completed his pre-pharmacy work. Students are encouraged to serve internship during the summers. Four hundred hours of credit toward internship will be given for work performed while registered for academic credit in an authorized externship program.

All intern pharmacists must notify the Joint Secretary, State Examining Boards, 165 Pryor Street, S. W., Atlanta, Georgia. The pharmacist supervising the intern must also notify the joint secretary that the intern is under his supervision. Termination of any portion of the internship must be reported by the pharmacist and the intern.

Students may apply for an intern license and begin to satisfy this requirement upon completion of the pre-pharmacy curriculum. An intern license is required for participation in the externship program.







# ADMISSIONS

To be admitted to the professional program in the School of Pharmacy, a student must complete the pre-pharmacy requirements. At The University of Georgia, the pre-pharmacy program is administered through the College of Arts and Sciences. The two years of pre-pharmacy education require satisfactory completion of not less than 90 quarter hours of academic work counting toward the pharmacy degree. In addition, students must meet the general requirements for physical education. Students with high academic averages, having 90 hours of credit, may be admitted with not more than 5 quarter hours of deficiencies in non-science required courses, provided such deficiencies are cleared with their pre-pharmacy adviser and are completed during their first professional year.

Application to the School of Pharmacy should be submitted by February 1. Transcripts showing all college work taken should accompany the application. Students may make application to the Dean of the School of Pharmacy when they have completed four quarters of work and are currently enrolled for 15 hours.

In considering applications for admission to the School of Pharmacy, preference will be given to those persons having a 2.5 or above grade point average. Applicants must have earned a minimum average of 2.0 on all work taken. It is desirable that each applicant take the Pharmacy Aptitude Test and attend a personal interview prior to entering the school.

The University of Georgia complies with the Civil Rights Act of 1964.

## PRE-PHARMACY REQUIREMENTS CORE CURRICULUM

For freshmen entering 1973 and after.

		HOURS
AREA I	HUMANITIES	
	English 101-102	10
	Speech 108	5
	Elective — (if literature is not included in the English courses, the elective must be chosen from Comparative Literature 121 or 122, English 131, 132, 203, 204 or foreign languages — intermediate level).	5
AREA II	MATHEMATICS AND NATURAL SCIENCE	
	Mathematics 116 (or equivalent Precalculus math)	5
	Chemistry 121, 122, 123	15
AREA III	SOCIAL SCIENCE	
	History 251 or 252	5
	Political Science 101	5
	Economics 105	5
	Elective — Must be chosen from History 111, 112, 251, 252; Political Science 202, 203; Psychology 101, 258; Sociology 105, 260, 293; Anthropology 102	5
AREA IV	MAJOR	
	Chemistry 240-241	10
	Biology 101-102	10
	Physics 127-128	10
	Physical Education	

# PROFESSIONAL PROGRAM

## FIRST PROFESSIONAL YEAR

	HOURS
Pharmacy I 320	5
Pharmacy II 321	5
Inorganic Pharmacy 322	4
Biopharmacy 347	5
Medical Physiology 349-50	8
Pharmacy Law 390	3
Drug Analysis 402	5
Elective	5
Microbiology 350-352	8

## SECOND PROFESSIONAL YEAR<sup>1</sup>

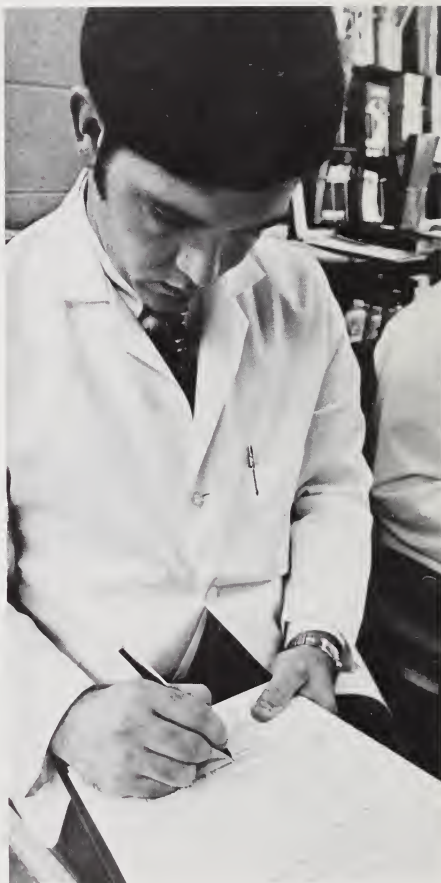
	HOURS
Pharmaceutics I, II, III 406-7-8	12
Principles of Drug Action 433-4-5	17
Biopharmacy 447	3
Pharmacognosy 404	5
Chemotherapy 475	4
Elective	5
Pharmaceutical & Health Care Service 495	3
Public Health 501	3

## THIRD PROFESSIONAL YEAR

	HOURS
Externship 500	15
Dispensing Pharmacy 537-8	8
Disease and Therapeutics 585-6	6
Pharmacy Practice I, II 596-7	7
Professional Electives	9
Field Trips <sup>2</sup>	

<sup>1</sup>Students should acquire proficiency in typing before entering the second professional year.

<sup>2</sup>Students annually visit hospitals, pharmaceutical manufacturers and wholesale houses. Individual expenses for such trips are each student's responsibility.



# REGULATIONS

## HOURS

In order to receive the Bachelor of Science degree in the School of Pharmacy, a student must have completed not less than 233 quarter hours of work with a cumulative average of at least 2.0.

## ACADEMIC LOAD

All professional students in the School of Pharmacy must take a minimum academic load of twelve credit hours per quarter unless excused by the dean.

## SCHOLARSHIP REQUIREMENTS

In addition to the general University requirements relative to scholarship, the following requirements must be met by all pharmacy students.

All first professional year students must have earned a minimum grade point average of 1.8 in not more than four quarters constituting their first professional year. Progress to the second professional year will not be allowed unless the minimum grade point average is met or exceeded. During the first four quarters in the pharmacy school students must complete all deficiencies in pre-pharmacy courses as well as all 300-numbered pharmacy courses and two microbiology courses.

For students in academic difficulty condition for readmission and continuance in the pharmacy program will be set during a personal interview with the Dean and/or the pharmacy faculty academic committee.

Similarly, all students must have earned at least a 2.00 average since entering the School of Pharmacy by the end of their second professional year in order to progress to the third professional year.

A student will not be permitted to register for the same pharmacy course more than twice within any twelve month school year.

At least a grade of 2.0 must be earned in all required pharmacy courses before credit for the course will be given toward graduation.

## CLASSIFICATION OF STUDENTS

Students will be classified as first (6), second (7), and third (8) year professional students. To be so classified, a student must take the required courses and maintain the required academic average.

## LIMITATION OF STUDENT EMPLOYMENT

Since it is realized that classroom work must receive major emphasis in the student's program for securing an education, he should not accept employment which will interfere with his scholastic program. A student who makes a poor scholastic record as a result of working will be required to reduce his work load.

## ACADEMIC PREPARATION

Students are expected to maintain a schedule of home study so they are prepared for daily classes and are always up to date in their course work. This requires students to establish early study habits best suited to their own capabilities and to adjust to the demands of the prescribed curriculum. The successful study of pharmacy necessitates the assimilation of a large amount of subject matter. The curriculum is arranged in a sequence to insure a progression of courses which result in meaningful correlation between the basic sciences and clinical areas of study and application. Courses do not end with final examinations each quarter, but supplement all others in the total professional curriculum.

## CLASS ATTENDANCE

Regular attendance at classes, laboratories (including clinics) and examinations is a student obligation, and the unexcused absence, or "cut," is not recognized as a student privilege by the faculty of the School of Pharmacy.

The student is expected to give reason for his absence to his individual instructor and to make up all work missed due to the absence. If a student is absent for five consecutive class meetings, the instructor will determine the reason and report the student to the dean's office, with a record of the total absences and the tentative grade earned in the class to date.

#### **Excessive Absences**

If the student, after being counseled and reminded of the seriousness of his absences, shows insufficient improvement in class attendance, the instructor may request his withdrawal from the course and assign a "WF" grade.

#### **Excused Absences**

Under certain conditions and at the discretion of the dean, absences may be excused. Students anticipating absences or who experience unanticipated absences should report such to the dean's office as soon as practical before or after the absence, as appropriate.

## **DRESS**

Students of pharmacy are expected to dress neatly and to otherwise exemplify professional men and women at all times.

## **ATTITUDE AND CONDUCT**

A student whose attitude, actions or conduct, either on or off campus, are of a type which could discredit himself, the School of Pharmacy, The University of Georgia, and/or the pharmacy profession shall be subject to dismissal from the School of Pharmacy. Students in the

school are also governed by the rules and regulations of The University of Georgia as outlined in the current general catalog. Special attention is directed to provisions in the general catalog and the student handbook concerning class attendance.

As a future member of the profession of pharmacy each student has the duty to observe the law, uphold the honor of the profession and accept its ethical standards of conduct. Adhering to these principles is an integral part of the training. For these reasons the students of the School of Pharmacy have established a code of ethics so that no student will bring discredit or dishonor to our profession. A pharmacy ethics court comprised of pharmacy students will review breaches of ethical conduct by students and propose disciplinary action where necessary. On admission, students will be required to sign a pledge adhering to the code of ethics of the school and to abide by the decisions of the ethics court.

Any student dismissed from the school, but not by the University, may within 30 days submit a written request to the school's academic committee for a review of his case. *Each student is limited to one such review.* The reviewing board's decision, after review by the dean, is final.

Applicants for admission to the School of Pharmacy who are known to have been officially dismissed from any pharmacy school will not be accepted. A student who gains entrance to the school by misrepresentation of facts may be immediately dismissed.

A student who was dismissed for academic reasons may apply for re-admission to the school after proper consultation with his academic counselor. His application, however, will be considered as a first application along with those of other new applicants.



# GRADING SYSTEM

For purposes of computing quarterly, yearly, and cumulative grade point averages, letter grades must be converted into numerical equivalents. The equivalents are:

A	4.0
B	3.0
C	2.0
D	1.0
F	0
WF	0
I	*
S	*
U	*

\*Not computed

## ACADEMIC PROBATION

A student is placed on academic probation at the end of any quarter in which his cumulative grade point average is below 2.0. A student may remove himself from academic probation by achieving a 2.0 cumulative average.

## ACADEMIC DISMISSAL

After a student has been enrolled for three or more quarters, he is dismissed from the University if his cumulative average is below that required for the following designated number of total hours attempted<sup>1</sup>

Hours Attempted	Required Minimum Cumulative Average
3 — 44	1.5
45 — 89	1.6
90 — 134	1.7
135 — 179	1.8
180 — 239	1.9
240 or more	2.0

<sup>1</sup>Unless he earned an average of 2.3 or higher on all hours attempted for the last quarter in residence and was enrolled for a minimum of 10 hours for that quarter.

A student will not be subject to dismissal from the University for academic deficiencies until he has been enrolled for three or more quarters. A student will be considered enrolled for any quarter in which he received a grade or grades other than a W.

A student will not be dismissed from the University for academic reasons if he earned an average of 2.3 or higher on all hours attempted for the last quarter in residence, provided he was enrolled for a minimum of 10 hours for that quarter.

A student who withdraws from a course during the first half of a quarter is assigned a grade of W or WF by the instructor. After midway in a quarter (the date to be specified in the *Schedule of Classes*), a student who withdraws from a course is assigned a grade of WF, except in those cases in which the student is doing satisfactory work.

*Total hours attempted* consist of all hours attempted at the University (including all hours with grades of F and WF), plus all hours transferred to the University. Grades of I and W are not included in hours attempted.

*Cumulative grade average* is based on all residence hours attempted at the University exclusive of S and U grades. Grades of WF are computed as F. Grades of I not removed by the end of the first quarter in residence after receiving the I grade become an F.

Upon receiving a first dismissal, a student will be suspended from the University for a minimum of two quarters. At the end of the suspension, readmission may be granted at the discretion of the academic dean.

After a second dismissal, only through appeal to the University faculty executive committee can permission to return to the University be granted. A minimum of one calendar year must elapse before a student on second dismissal may petition for readmission.





# FINANCES AND AID

## EXPENSES

Expenses for pharmacy students are comparable to that for other students at The University of Georgia. The following is an approximation of expenses first year pharmacy students may anticipate:

- |   |                               |
|---|-------------------------------|
| 1. Matriculation Tuition (non-resident student)                       | \$181 per quarter             |
| 2. Dining hall meal tickets <sup>1</sup>                              | \$240 per quarter             |
| 3. Housing Dormitories <sup>2</sup> Private (off campus)              | \$180-256 per quarter         |
| Fraternity house  | \$145-160 per quarter         |
|   | \$35 per month and up         |
|   | \$90 per quarter and up       |
| University married student housing <sup>3</sup> Furnished (1 bedroom) | \$102-112 per month           |
| Unfurnished (1 bedroom)   | \$90-100 per month            |
| 4. Textbooks  | \$100 for first-year students |
| 5. Lab clothing & equipment   | \$35 for first-year students  |

Single students may anticipate their first year expenses to be \$1,500 to \$1,800. Married students will need \$3,200 to \$3,800 for their first year. Estimates do not include travel, clothing and other incidental personal expenses.

<sup>1</sup>There are various combinations of meals per day and number of days meals are taken which affect meal ticket prices.

<sup>2</sup>Dormitory rent varies with additional features desired, such as private telephone and/or air-conditioning. Rental charge includes flat linen laundry fee.

<sup>3</sup>Water is provided by the University, but rental charges do not include electricity.

## AID

Students attending the University have nearly half the actual expense of their college education shared by the state of Georgia. Through the tax support of Georgians, The University of Georgia can offer a quality education at an economic cost.

In addition, the University provides financial help for any student who needs aid and is progressing normally toward graduation. No qualified student need hesitate to apply for financial aid if money is needed to pursue an education in pharmacy.

## SCHOLARSHIPS AND LOANS

### High School Students for Freshman Year

*Georgia Pharmaceutical Association*, pre-pharmacy scholarship in amount of \$300. Apply to Suite 108, 1 La-Vista Perimeter Office Park, Tucker, Georgia 30084.

*University Freshman Scholarship*, awarded to superior students to cover cost of tuition. Apply to Financial Aid Office, Academic Bldg., University of Georgia, Athens, Ga. 30602.

*University Regents Scholarship*, to superior students, amount based on needs of students. Apply same as above.

### Loans

*University and Federal Loan Funds*, Pharmacy students are eligible to apply to Financial Aid Office, Academic Bldg., University of Georgia, Athens, Ga. 30602.

*Georgia Higher Education Assistance Corporation*. The state will guarantee the loan of money made by banks. Detailed information available from GHEAC office at P. O. Box 38005, Capitol Hill Station, Atlanta, Ga. 30334.

*Dargavel Foundation*. Pharmacy students are eligible to apply for loan funds from John W. Dargavel Foundation of the National Association of Retail Druggists and should write directly to the Dargavel Foundation, 32 W. Randolph St., Chicago, Ill. 60601.

*Woman's Auxiliary of Georgia Pharmaceutical Association.* Pharmacy students are eligible to apply to the dean's office.  
*Certain Emergency Loans* are available through the dean's office.

### ***College Work Study Program***

Eligibility based on needs of student. Apply to Financial Aid Office, Academic Bldg., University of Georgia, Athens, Ga. 30602.

### ***Professional Scholarships (for students who have completed 2 years of pre-pharmacy work).***

*State of Georgia Scholarships* — The State Scholarship Commission has a number of scholarships based on financial need. Apply to State Scholarship Commission, P.O. Box 38005, Capitol Hill Station, Atlanta, Ga. 30334.

*Health Professions Scholarships* — Federal program administered by Financial Aid Office, Academic Bldg., University of Georgia, Athens, Ga. 30602.

*Scholarships Awarded by School of Pharmacy* — Apply to dean's office.

*Jacob G. Smith*, awarded to a Savannah Area resident; *J.D.S. Coleman*, awarded to a Macon Area resident; *John W. Dargavel*; *Woman's Auxiliary of Georgia Pharmaceutical Association*; *University of Georgia Pharmacy Alumni*; *Phi Delta Chi*; *Kappa Psi*; *American Foundation for Pharmaceutical Education*; *Eckerd Drugs, Inc.*

### ***Local Scholarships and Loans***

Certain home-town firms and organizations offer scholarships and loans to deserving students. Students are urged to investigate home town possibilities.

Applications for scholarships and loans should be made as soon as possible since funds are limited and six weeks are required for processing.



# STUDENT ACTIVITIES

## PROFESSIONAL ORGANIZATIONS

During their academic career in the School of Pharmacy students are encouraged to begin to develop interest in professional activities. The primary route by which this interest may be expanded is through the Student Pharmaceutical Association which is affiliated with both the Georgia and American Pharmaceutical Associations. Active participation in this student function will not only stimulate interest in the profession but develop leadership and character.

Efforts to advance the profession of pharmacy educationally, fraternally and socially by instilling in its members a respect for diligence, sincerity and brotherhood led to the installation of chapters of two professional fraternities, Phi Delta Chi and Kappa Psi and a sorority, Lambda Kappa Sigma, in the School of Pharmacy. These organizations may also assist members in developing leadership characteristics and accepting responsibilities. They sponsor activities beneficial to the school, the University and the profession.

## HONOR SOCIETIES

Pharmacy students who comprise the top twenty percent of their class academically may be invited to join Rho Chi, the national honorary pharmaceutical society. The invitation is usually extended during the last quarter of the second professional year. Pharmacy students are also eligible for membership in Phi Kappa Phi, national honor society, and various leadership societies on campus.

## AWARDS

Beginning in 1948 and continuing annually thereafter, the School of Pharmacy has sponsored an awards banquet at which outstanding academic achievement, leadership and devotion to the profession by students are recognized. These awards may be scholarships, trophies, certificates, books or monetary. By design, the majority of the awards presented at the banquet are to seniors but some are designated for first and second year students.







# COURSES OF INSTRUCTION

## PHARMACY

### 320. *Pharmacy I*. 5 hours.

Four hours lecture and three hours laboratory weekly.

Prerequisite: First Professional year standing.

An introduction to pharmacy, including the history and literature of pharmacy, the types of professional practice, health care trends in the United States, drugs and dosage forms, the prescription and pharmacy calculations.

### 321. *Pharmacy II*. 5 hours.

Prerequisite: Pharmacy 320.

The various dosage forms, classes of pharmaceutical preparations, general methods of preparation and appropriate examples of currently used products are introduced. Pharmaceutical calculations involving dilutions and concentrations and special compounding procedure are included. The laboratory stresses compounding techniques.

### 406, 407, 408. *Pharmaceutics I, II, III*. 4 hours each.

Three hours lecture and three hours laboratory weekly.

Prerequisite: All 300 level professional courses.

The general consideration of the underlying principles of dosage form design, compounding, and technology. Laboratory work involves the preparation and evaluation of the various dosage forms and the dispensing of compounded prescriptions. Prescription handling and dispensing experience at the University Health Service is a part of this sequence.

### 500. *Pharmacy Externship*. 15 hours.

Prerequisite: Pharmacy 435, 475 and 537.

A structured course conducted by selected pharmacy practitioners (preceptors) in off-campus community and institutional pharmacies. Each student will spend an entire academic quarter in the externship course at a designated location in Georgia. Normally, each student will spend five weeks in a community pharmacy and five weeks in an institutional pharmacy setting. A limited number of students will be selected to attend the clinical

pharmacy externship program conducted at the Medical College of Georgia. Liability insurance and a Pharmacy Intern License are required for this course.

### 537, 538. *Dispensing Pharmacy*. 4 hours each.

Three hours lecture and three hours laboratory weekly.

Prerequisite: Pharmacy 390, 407 and 434.

An integration of the pharmaceutical sciences and the practice of pharmacy. Attention is directed toward the procedures and precautions necessary in providing pharmaceutical services in the community pharmacy and in various institutional settings. Special emphasis is placed on drug literature, drug interactions, drug product selection, and drug therapy.

## PHARMACOGNOSY

### 404. *Pharmacognosy*. 5 hours.

Prerequisite: Pharmacy 347 and 350.

The study of drugs of plant and animal origin with emphasis on classification, pharmacological actions, and therapeutic use.

### 475. *Chemotherapy*. 4 hours.

Prerequisite: Microbiology 352, Chemistry 241, Pharmacy 447, 350, 321.

A discussion of the chemistry, mechanism of action and therapeutic applications of antiseptic, antibiotic, antifungal, antiprotozoan and anthelmintic agents.

## PHARMACOLOGY

### 349, 350. *Medical Physiology*. 4 hours each.

Prerequisite: For 349, completion of pre-pharmacy requirements. For 350, Pharmacy 347 as corequisite and 349.

Principles of physiology are studied with consideration given to those functions altered by drugs.

354. *Pharmacology of Drugs*. 3 hours.

Prerequisite: junior standing.

Lectures and discussion designed to increase the non-pharmacy major's awareness of the general actions, uses and dangers of drugs.

433, 434, 435. *Principles of Drug Action*.<sup>1</sup>

Five hours lecture weekly for three quarters and three hours laboratory per week for 434 and 435.

Prerequisite: Pharmacy 322, 347 and 350.

A study of the actions of drugs in current use, emphasizing the chemical and pharmacological principles related to stability, bioavailability, structure-activity relationship, pharmacologic action, therapeutic application and toxicology.

585, 586. *Disease and Therapeutics*. 3 hours each.

Prerequisite: Pharmacy 435.

A discussion of disease states with emphasis on procedures involved in restoring the patient to normal health.

## PHARMACEUTICAL ADMINISTRATION

390. *Pharmaceutical Law*. 3 hours.

Prerequisite: First professional year standing.

A review of the various laws involved in pharmaceutical prescription practice and a study of the state and federal regulations including organization enforcement procedures. Consideration is also given to case histories involving negligence and malpractice.

495. *Pharmaceutical and Health Care Service*. 3 hours.

Prerequisite: Second professional year standing.

A study of the principles and methods involved in the rendering of pharmaceutical and health care services. Included are the social, economic, legal and professional aspects and the study of the activities of providers and consumers of such services.

501. *Public Health*. 3 hours.

A broad perspective of the philosophy of public health, the need for health services, and the efforts to provide those services through health and health-related programs in the United States.

596. *Pharmacy Practice I*. 4 hours.

Prerequisite: Pharmacy 495.

A study of the application of managerial principles to the professional practice of pharmacy.

597. *Pharmacy Practice II*. 3 hours.

Prerequisite: Pharmacy 435.

This course intensively examines the behavior of the patient or consumer of pharmaceutical and health care services. A study of the psychological, sociological and demographic make-up of the patient is undertaken and related to the communicative process necessary in professional practice. Role playing, utilizing video tapes, is used for demonstration and evaluation.

## MEDICINAL CHEMISTRY

322. *Inorganic Pharmacy*. 4 hours.

Prerequisite: Chemistry 240 and Pharmacy 349.

A study of inorganic chemical compounds and preparations of value in human therapy.

347-447. *Biopharmacy*. 8 hours.

Prerequisite: Chemistry 241 and Pharmacy 349.

A study of intermediary metabolism and metabolic regulation. Drug interaction with biochemical systems will be introduced.

402. *Drug Assay*. 5 hours.

Three hours lecture, six hours laboratory. Prerequisite: Chemistry 240.

Official standard methods of analysis of pharmaceuticals. The student is introduced to techniques and instrumentation used by the modern pharmaceutical firm.

433, 434, 435. *Principles of Drug Action* (see listing under Pharmacology)

<sup>1</sup>All three courses must be taken for a total of 17 credit hours (433 — 5 hours, 434 — 6 hours, 435 — 6 hours).

## HONORS COURSES

496H, 497H, 498H, 499H. *Independent Study and Honors Thesis*. 5 hours each.

Prerequisite: Honors student in pharmacy

Individually directed study which will satisfy requirements for graduation with general honors. Project or study must be directed by approved assistant professor or higher.

## REQUIRED NON-PHARMACY COURSES

The following courses in the pharmacy curriculum are taught by the faculty of the College of Arts and Sciences. A description of the courses may be found in the College of Arts and Sciences section of The University of Georgia General Bulletin.

MICROBIOLOGY 350, General Microbiology; MICROBIOLOGY 352, Microbiology and Disease.

## UNDERGRADUATE PROFESSIONAL ELECTIVES

Prerequisite for all undergraduate professional electives: completion of first professional year requirements or consent of instructor.

504. *Drug Dependency Education*. 3 hours.

Prerequisite: Pharmacy 404.

A professional course covering various aspects of drug dependency and abuse including most types of drugs currently abused.

505. *Non-Prescription Drugs*. 3 hours.

Prerequisite: Second professional year standing or consent of instructor.

A discussion of the non-prescription drug products sold in pharmacies and intended primarily as self-medication drugs.

506. *Microscopic Pharmacognosy*. 3 hours.

Prerequisite: Pharmacy 405 or consent of instructor.

Application of microchemical and specialized techniques in the detection, separation and microscopic identification of drugs.

521. *Special Topics in Pharmacy*. 3 or 5 hours.

Three or five lecture periods or the equivalent in laboratory periods.

522. *Industrial Pharmacy I*. 3 hours.

Two lecture and three laboratory hours weekly.

Lectures to include a study of equipment used in pharmaceutical manufacturing. Laboratory work to involve pilot plant scale manufacturing.

523. *Industrial Pharmacy II*. 3 hours.

Two lectures and three laboratory hours weekly.

To acquaint students with specialized pharmaceutical systems, processes and control procedures involved with liquid, semisolid, and aerosol dosage forms.

524. *Institutional Pharmacy*. 3 hours.

A study of the history, organization structure, and operational policies and procedures of various types of health care institutions. Consideration is given to the pharmaceutical services rendered in hospitals extended care facilities, and nursing homes.

549. *Radio-Pharmaceuticals*. 3 hours.

Procedures and techniques involved in the handling and use of radioisotopes in pharmaceutical practice.

560. *Clinical Seminar*. 3 hours.

Two lectures and three laboratory hours weekly.

Lectures involve clinical case presentations including aspects of etiology, pathology, prognosis and treatment of disease. Laboratories involve teaching rounds and case work-up at local hospitals.

570. *Clinical Clerkship*. 3 hours.

The clerkship involves instruction in pharmacy practice in a clinical setting under the direct supervision of a professional practitioner. Clerkships are available in a number of community and institutional settings. Additional credit permitted on consent of instructor.

584. *Toxicology*. 3 hours.

A study of the toxic mechanisms, toxic syndromes, antidotes, and emergency and supportive therapy for substances commonly implicated in accidental poisonings.

590. *Pharmacy Ethics*. 3 hours.

This course deals with the problems faced by the community pharmacist as he strives to strike a balance between the demands of economic competition on the one hand and the demands of professional ethics on the other.

591. *Problems in Pharmacy Management*. 3 hours.

An individualized computerized model of practice that permits student analysis of community pharmacy oriented managerial reports.

594. *Prescription Accessory Products*. 3 hours.

A study of accessory products related to prescriptions, sickroom needs, rehabilitation and convalescent equipment, surgical supports and other appliances, and miscellaneous products of a general nature.

595. *Household and Animal Health Products*. 3 hours.

Three hours lecture and recitation.

The study of fumigants, rodenticides, insecticides, fungicides, weedicides, parasiticides and toxins, serums, vaccines, and related products commonly sold in the drug store. Ethics, economic and legal aspects will be stressed.

598. *Undergraduate Research Problem*. 3 or 5 hours.

An introduction to research. The course is designed to acquaint the student with the techniques of research. A problem will be assigned and the student will be expected to do library and laboratory work necessary to prepare an acceptable report.



Inquiries and requests for information and application forms should be addressed as follows:

*Office of the Dean  
School of Pharmacy  
University of Georgia  
Athens, Georgia 30602  
Telephone: (404) 542-1911*

Information about graduate programs:

*Graduate Coordinator  
School of Pharmacy  
University of Georgia  
Athens, Georgia 30602  
Telephone: 404/ 542-4410*

Housing for single students:

*Department of University Housing  
University of Georgia  
Athens, Georgia 30602  
Telephone: 404/ 542-1421*

Housing for married students:

*Married Student Housing Office  
University of Georgia  
Athens, Georgia 30602  
Telephone: 404/ 542-1473*

Payment of fees and deposits:

*Treasurer's Office  
University of Georgia  
Athens, Georgia 30602  
Telephone: 404/ 542-1361*

Scholarships and loans:

*Office Student Financial Aid  
University of Georgia  
Athens, Georgia 30602  
Telephone: 404/ 542-6147*

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