

The University of
ARIZONA

1969-1970



CATALOGUE
COLLEGE OF MEDICINE



THE
COLLEGE OF MEDICINE

1969-1970

THE UNIVERSITY OF ARIZONA
Tucson, Arizona

THE UNIVERSITY OF ARIZONA RECORD
 VOL. LXI. No. 6
 JULY, 1968

CORRESPONDENCE: inquiries, requests for additional information and/or clarification relating to the College of Medicine, The University of Arizona, should be directed to:

The Admissions Office
 College of Medicine
 The University of Arizona
 Tucson, Arizona 87521

Announcements in this catalogue concerning curriculum, fees, and regulations are subject to change without notice.

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STATEMENT OF MAILING PRIVILEGE

The University of Arizona Record is issued seven times a year. Published monthly during July, August, and October, and semi-monthly during April and June.
 Entered as second-class matter April 28, 1933, at the post office at Tucson, Arizona, under the Act of August 24, 1912.

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ACADEMIC CALENDAR FOR 1969-70, 1970-71

FIRST SEMESTER	1969-70	1970-71
	~~~~~SEPTEMBER~~~~~	
Residence Halls open for New Students .....	2 T	1 T
Registration for College of Medicine .....	5 F (Freshmen Only) 4 F	
Orientation for College of Medicine .....	6 Sa (Freshmen Only) 5 Sa	
Classes begin in College of Medicine .....	8 M	7 M
	~~~~~OCTOBER~~~~~	
Homecoming — no classes	15 Sa	31 Sa
	~~~~~NOVEMBER~~~~~	
Veteran's Day — no classes .....	11 T	11 W
Thanksgiving Recess .....	27 Th-30 Su Incl. 26Th-29 Su Incl.	
	~~~~~DECEMBER~~~~~	
Christmas Recess	21 Su-Jan 4 Su Incl. 20 Su-Jan 3 Su Incl.	
	~~~~~JANUARY~~~~~	
Semester examinations end .....	23 F	22 F
	~~~~~	
SECOND SEMESTER	1969-70	1970-71
	~~~~~JANUARY~~~~~	
Registration for College of Medicine .....	24 Sa	23 Sa
Classes begin in College of Medicine .....	26 M	25 M
	~~~~~FEBRUARY~~~~~	
La Fiesta de los Vaqueros — no classes	(Not Available) (Not Available)	
	~~~~~APRIL~~~~~	
Spring Recess .....	Mar 22 Su-Mar. 29 4 Su-11 Su Incl. Su Incl.	
	~~~~~MAY~~~~~	
Semester examinations end	29 F	29 Sa



The University of Arizona, an integral part of the state system of public education, was established in 1885 as a Land Grant College. During the ensuing years it has developed into one of the great educational institutions of the southwestern United States. It is organized into 13 colleges and over 25 divisions of research and special service. The Bachelor's degree is offered in more than 175 fields, the Master's degree in over 75, and the Doctor's degree in over 40. Its 100,000 former students are represented in every community of Arizona, in every one of the United States, and in many foreign countries.

The University is situated in Tucson, a community of approximately 300,000 population which is almost doubling in size every ten years. The campus is located one mile east of the center of town. The academic buildings are located along a central mall and the supporting and ancillary buildings are on the periphery.

THE COLLEGE OF MEDICINE

There are three publicly supported institutions of higher education in Arizona under the jurisdiction of the Arizona Board of Regents. Until 1967, premedical students who were enrolled in these institutions received their medical education outside of Arizona either by individual arrangement or through the cooperative program of the Western Interstate Commission for Higher Education. In 1961, following the publication of *The Arizona Medical School Study*, conducted under the direction of Dr. Joseph F. Volker for the Board of Regents, the Regents voted to grant authorization to the University of Arizona to develop a College of Medicine.

Funding for the design and construction of a Basic Medical Sciences Building was achieved by means of a private gifts campaign. The funds raised were matched by the U.S. Public Health Service. Ground was broken to start construction of this building in May, 1966, and the building was occupied in the summer of 1967.

The first, and only, major biomedical library in this part of the United States was started simultaneously with the building program. The Medical Librarian and his staff have under development a comprehensive collection of the most important of the world's biomedical literature for the use of the students and faculty of the University and of the practicing physicians in Arizona.

The cost of the design and construction of the Clinical Sciences Building, Outpatient Department, and Hospital has been met through the sale of self-liquidating bonds and matching funds from the United States Public Health Service. Construction of the latter buildings is scheduled for the summer of 1968, and completion is expected in early 1970.

Physical Facilities

Just north of the eastern end of the main campus is a thirty-acre extension where the College of Medicine has been developed. The Basic Medical Sciences

Building faces south to the main University campus. The clinical sciences wing, outpatient department and 300-bed teaching hospital attach to the north side of the Basic Sciences Building.

The medical complex, when completed, will include a student wing with multi-discipline laboratories, lecture rooms, snack bar, lounge, and supporting facilities. It will also contain centralized animal quarters, the medical library, administrative offices, and the academic departments. The clinical departments are stratified horizontally with outpatient and inpatient areas over six floors arising out of a three-story base. The latter incorporates the service-oriented functions, such as the emergency room, operating suites, radiology, and clinical pathology laboratories.

The Medical Center will contain all teaching, research, and service components that are required for undergraduate and graduate medical education and graduate training programs in all of the traditional health-related fields.

The Medical Center — Objectives

The aim of the University Medical Center, which includes the College of Medicine, is to provide an organization for coordinating all of the intellectual resources in the total spectrum of health services in a manner that is consistent with the aspirations and expectations of the people of the state. It is intended to serve, in the broadest sense, as an educational institution for the people of Arizona and beyond.

The Medical Center faculty and staff are familiar with the fundamental problems in medical science and medical care which are of national and worldwide significance. They are also engaged in a consideration of the health problems of Arizona and the various factors — biological, sociological, cultural, and economic — which may cause or contribute to them. Through cooperative efforts with other units of the University, and jointly with governmental and private agencies, hospitals, professional and lay groups, the Medical Center staff will actively pursue appropriate solutions to these health problems.

Through such consultative efforts, the Medical Center will contribute to the expansion and improvement of health resources, raise standards of health care, and help meet the health needs of the state. For this purpose, a variety of educational activities of the highest quality will be developed. This will involve the recruitment of an outstanding faculty, the selection of the best student body obtainable, and the creation of an environment which will foster scholarship.

Medicine is the study of human growth, development, and illness. It includes the biological, mental, emotional, and cultural factors that bear upon normal human development and its aberrations. The teaching of modern medicine requires an integrative approach which minimizes or even abolishes the

artificial separation which has previously existed between the traditional basic and clinical sciences and between undergraduate, professional, and postgraduate education. The education of a physician must also be shifted toward the techniques of problem solving rather than continuing to emphasize encyclopedic knowledge. No longer is the individual physician, with his personal armamentarium of knowledge and skills, the patient's sole resource. Instead, the physician is assuming the role of a team leader who has the breadth and competence to marshal the additional resources his patients may require. The ability to mobilize and utilize technical assistance and to work cooperatively in a team, especially in an era of intense specialization, should be the essence of professionalism.

The specific educational programs are designed to meet the interests and needs of the individual student, whether undergraduate or postgraduate, and the faculty and administration will always be available to help any student with a special problem, whether it be academic, economic, social, or personal in character.

The undergraduate medical curriculum should be viewed essentially as the "liberal arts" of medical education. The student will be encouraged to develop an interest in the comprehensive care of patients. The curriculum is intentionally structured so that the student will face problems similar to those seen in the practice of medicine and he will participate in their resolution. Basic to this approach are: continuity of care during periods of health as well as illness, and an understanding of the role of the family physician as he renders those services which are within his competence.

The faculty of the College of Medicine believes that all students should understand the philosophy which underlies family practice, since many future physicians will serve as personal physicians and family health advisors. As a part of this effort, the faculty will draw upon the resources of many disciplines — medical practice, economics, business administration, sociology, psychology, education, engineering, and others — to study the ways in which comprehensive health care may be delivered to patients. The problem of how such health care can best be made available, including how medicine can best be practiced, is one of the major areas of concern to the profession today. Findings produced by such studies will be translated into the curriculum at all levels.

The College of Medicine will utilize the multidiscipline laboratory approach to the teaching of medicine in contrast to the traditionally separate departmental facilities. The multidiscipline laboratories will serve as a single teaching base by the pre-clinical Departments of Anatomy, Biochemistry, Physiology, Pathology, Pharmacology and Microbiology. Members of the Clinical Departments will also participate in the Multidiscipline Laboratories in the laboratory portion of their course on Introduction to Clinical Medicine.

The Multidiscipline Laboratories will accommodate either traditional departmental teaching by the various faculties or cooperative teaching by two or more departments. The curriculum will encompass departmental teaching by the six pre-clinical departments along with integrated or collaborative teaching when the nature of the subject matter and the interests of the departments concerned will permit. Integrated teaching will occur in the first year in Neuroscience and over the first two years of the curriculum in the Introduction to Clinical Medicine course.

The curriculum will include blocks of unprogrammed time in which the students are encouraged to pursue academically rewarding activities. This may include elective study or participation in research projects.

At graduation, the medical student will have been broadly educated in the sciences of medicine and will be ready for the final training period necessary to prepare him either for the family practice of medicine or any of its specialties, or to enter academic or research medicine or the field of medical administration. The graduate training period will be no less rigorous and demanding than that of the undergraduate. Opportunities will be provided in the Medical Center for high-quality hospital training programs in preparation for practice, teaching, research, or administration.

The physician can no longer consider his education adequate with graduation from medical school and completion of house staff training. He must now accept continuous education, and re-education, in order to keep abreast of recent advances. The University of Arizona Medical Center will provide programs by means of which practitioners can avail themselves of continuous educational renewal and life-long learning. One of these, the Regional Medical Program for Cancer, Heart Disease and Stroke, is now in operation, reaching all health personnel in the State of Arizona.

ADMISSIONS

Premedical

Applicants must meet the minimum requirement of three full years of academic credit in a program leading to a Baccalaureate degree from an accredited college of arts and sciences. However, only an occasional student is accepted without the full four years. Applicants must take the Medical College Admission Test and arrange to have the scores forwarded directly to the College of Medicine. It is recommended that the Medical College Admission Test be taken in May, but not later than October of the year preceding that in which the student hopes to enter Medical School. In addition to the above requirements, each of the following specific courses are required.

	<i>Semester Hours</i>
Chemistry, including laboratory	16
Inorganic	8
Organic	8
Physics, including laboratory	8
General Biology or Zoology, including laboratory	8
English	6

Students should have shown the ability to handle scientific material effectively, irrespective of their major. Any of the following electives will be especially helpful as background in the language and understanding of science and human biology: analytical geometry and calculus; quantitative analysis and physical chemistry; and genetics. Psychology and the social sciences have particular value in the understanding of human behavior.

Application Procedure

The application period is 1 July through 1 December of the year preceding that in which the applicant hopes to enter medical school. Requests for application materials postmarked after 1 December will not be honored.

Applications from non-residents must be accompanied by an application fee of \$10.00, which is non-refundable. Applicants are encouraged to apply in the summer or early fall. (A timetable for applicants for the entering class of 1969 appears inside the back cover.) Following a preliminary screening of the completed applications by the Admissions Committee, those who will be considered further will be requested to appear for a personal interview. Appointments for the personal interview will be made by the Admissions Office. No appointment for an interview will be made prior to review of the applicant's credentials, except where this would cause serious inconveniences to the applicant. Applicants will be notified of the action taken by the Admissions Committee as soon as possible after the personal interview. The College of Medicine abides by the "Recommended Acceptance Procedures of the Association of American Medical Colleges."

Selection Factors

Selection is based upon assessment of the applicant's intellectual, personal and social traits. In evaluating candidates, the Admissions Committee considers ability and scholarship as indicated by the entire academic record, both high school and college, the results of various aptitude and achievement tests, personal qualifications as evidenced by recommendations from persons who know the applicant well and personal interview. Preference will be given to residents of Arizona and to residents of western states who apply through the Western Interstate Commission on Higher Education. However, applicants will not be limited to these groups and applications will be welcome from qualified students who are residents elsewhere.

Expenses

Tuition and fees per academic year (1969-70)	
Resident	\$ 600.00
Nonresident	\$1200.00
Estimated expenses per academic year (1969-70)	
Room and board (minimum)	\$1200.00
Books and supplies	\$ 300.00
Microscopes will be provided	
Miscellaneous	\$ 500.00

One-half the tuition is payable upon registration and one-half is payable at the beginning of the second semester.

THE HONOR SYSTEM

A student who enters the College of Medicine finds himself in a company of scholars, each one in his field of endeavor working to deepen his own knowledge, to extend the boundaries of human knowledge, and to apply his knowledge in service to his fellow man. The faculty and students of the College of Medicine require that a man or woman shall act honorably in all the relations and phases of student life. All work in the College is conducted under an honor system. The candidate who accepts the offer of a position in the College agrees to abide by the Honor Code, as described below.

Honor Code

The Honor Code requires that a man or woman shall act honorably in all the relations and phases of the student's medical education. Lying, cheating, stealing, or breaking one's word of honor are considered violations of the Honor Code. The result in cases of conviction will always be dismissal from the College of Medicine. A student's word of honor, once given, is inviolate, and its use in regulating trivialities is highly dangerous. The Honor Code requires that, when a student has personal knowledge of another student in suspicious circumstances and feels that the student's actions may constitute a breach of this Honor Code, he shall investigate the matter as secretly and as speedily as possible. It is not only imperative but is the very essence of this Honor Code that each and every student recognize this duty of upholding the honor of the student body and the medical profession. Any student who knowingly fails to fulfill the aforesaid duty of investigation is himself guilty of a breach of honor. Each student's obligation is to the student body and to the medical profession, even over and above that to the individual. This duty can in no way be construed as spying, tale-bearing, or as being in any way reprehensible. It is the finest expression of loyalty to a cherished tradition of honor among a community of self-governing students and to the medical profession. It is also important that every student should exercise the greatest care to keep himself and his fellow students free of suspicion.

It is always advisable to associate two or three fellow students, if possible, in making an investigation. All materials having any connection with the case should be summarily taken possession of by the investigators, if need be against the wishes of the suspected person, as a matter of protection to all interests concerned. It is important to understand that the investigating students are the first to pass on the guilt or innocence of the suspected person. If the investigating students believe the suspected student to be guilty, they shall accuse the suspected student to his face and demand that he explain his conduct. If the investigating group is satisfied that the suspected student is not guilty of improper conduct, there shall be no further proceedings, and nothing connected with the investigation shall be made public. If, after hearing his explanation or after he has refused to make an explanation, the investigating group is still convinced of his guilt, they shall forthwith notify the Honor Committee and the accused student, in writing, of the specific charges alleged against the accused student.

Upon the receipt by any member of the Honor Committee in writing of any charge against a suspected student, such member shall immediately notify the remaining members of the Honor Committee and they shall, within two days, notify in writing the accused student and the investigating group of a time, within five days, of a meeting for the preliminary determination of the propriety of the charges made against the suspected student. This meeting shall be closed except to these enumerated persons, and there shall be no records kept at this meeting. At said meeting, the Honor Committee shall study the written charges and may hear such evidence concerning the propriety of the charges as they may desire. If four members of the Honor Committee shall, by secret ballot, vote to continue the charges over to a full hearing of the case, said Honor Committee shall thereupon notify the accused student and the investigating group of a time, not less than ten nor more than fifteen days from said preliminary meeting, for the hearing of evidence and determining the guilt or innocence of the accused; in this event, the charge may not be dropped upon the agreement of the accused to leave the College of Medicine, or for any other reason. Unless at least four members of the Honor Committee shall so vote, the charges shall be quashed, and all papers in connection therewith shall be destroyed.

At the hearing of the case, minutes shall be taken by a person appointed by the Honor Committee. These minutes and all other records of the Honor Committee shall be properly stored indefinitely by the Honor Committee for safe keeping from year to year. Said minutes and records shall be kept confidential except for the members of the Honor Committee and such persons as the Honor Committee shall, for good cause, approve.

At the hearing before the Honor Committee, the investigating group and the accused may be represented by counsel from the student body of the College of Medicine, but not otherwise. Such persons or counsel shall have the

privilege of examining the witnesses with relation to the facts of the case. Reasonable time shall be allowed to both sides. The accused shall be at liberty to say what he chooses in his own defense. The witnesses in the case are, of course, upon their honor to disclose truthfully all pertinent facts. The accused is presumed innocent until proven guilty by clear and convincing evidence. Said hearing shall be closed to all except the witnesses, the investigating group, the Honor Committee and their appointed secretary, and such persons as the accused may desire.

If, after hearing all the evidence and arguments of both sides, seven of the eight who compose the Honor Committee are clearly convinced of the guilt of the accused and shall so cast their votes in secret ballot, the accused must leave the College of Medicine immediately. If the accused is found guilty, the findings and the opinions of the Honor Committee shall be reported to the Dean of the College of Medicine who shall transmit all of the Honor Committee's findings and opinions to such persons as he deems advisable; it shall further be within the discretion of the Honor Committee to give such further publicity of the facts of the case resulting in a finding of guilty as shall be deemed necessary and proper. If the accused is found innocent, the Honor Committee shall report such findings to such persons or places as the accused shall reasonably request. From the decision of the Honor Committee, there shall be no appeal. A case resulting in a finding of guilty may be reopened only upon the production of new evidence bearing directly upon the question of guilt or innocence. Any person seeking to reopen a case shall appear before the Honor Committee and state on his honor the nature of the evidence. The Honor Committee shall then consider whether the evidence is sufficiently relevant to warrant a new hearing. If a case is reopened, it shall be heard *de novo*.

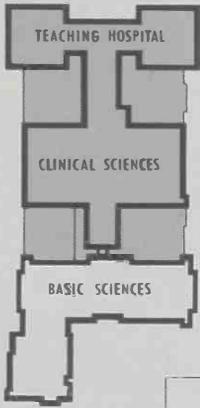
Each year, a member of the Honor Committee shall, within the first two weeks of the beginning of classes, completely read and explain this Honor Code to the entering students and to the new faculty members.

The Honor Committee represents the opinion of the students of the College of Medicine, and is not responsible to the faculty or administration as regards this Honor Code . . .

THE COLLEGE OF MEDICINE
University of Arizona



 UNDER CONSTRUCTION



E. LEE ST.

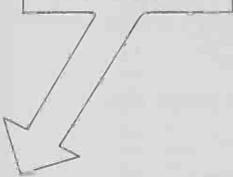
E. ADAMS ST.

E. DRACHMAN ST.

E. MABEL ST.

E. HELEN ST.

MAIN CAMPUS

A large arrow pointing from the "MAIN CAMPUS" label towards the bottom-left corner of the map.

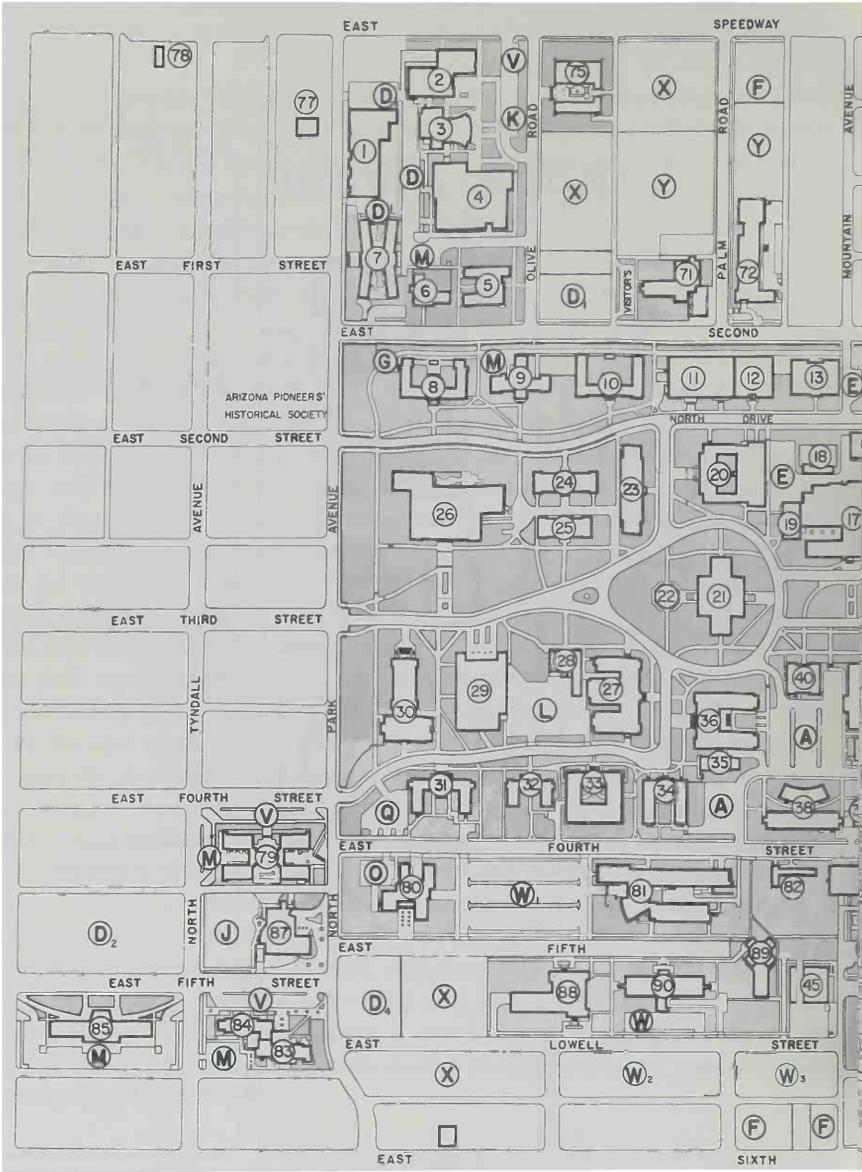
SPEEDWAY BLVD.

CHERRY AVE.

WARREN AVE.

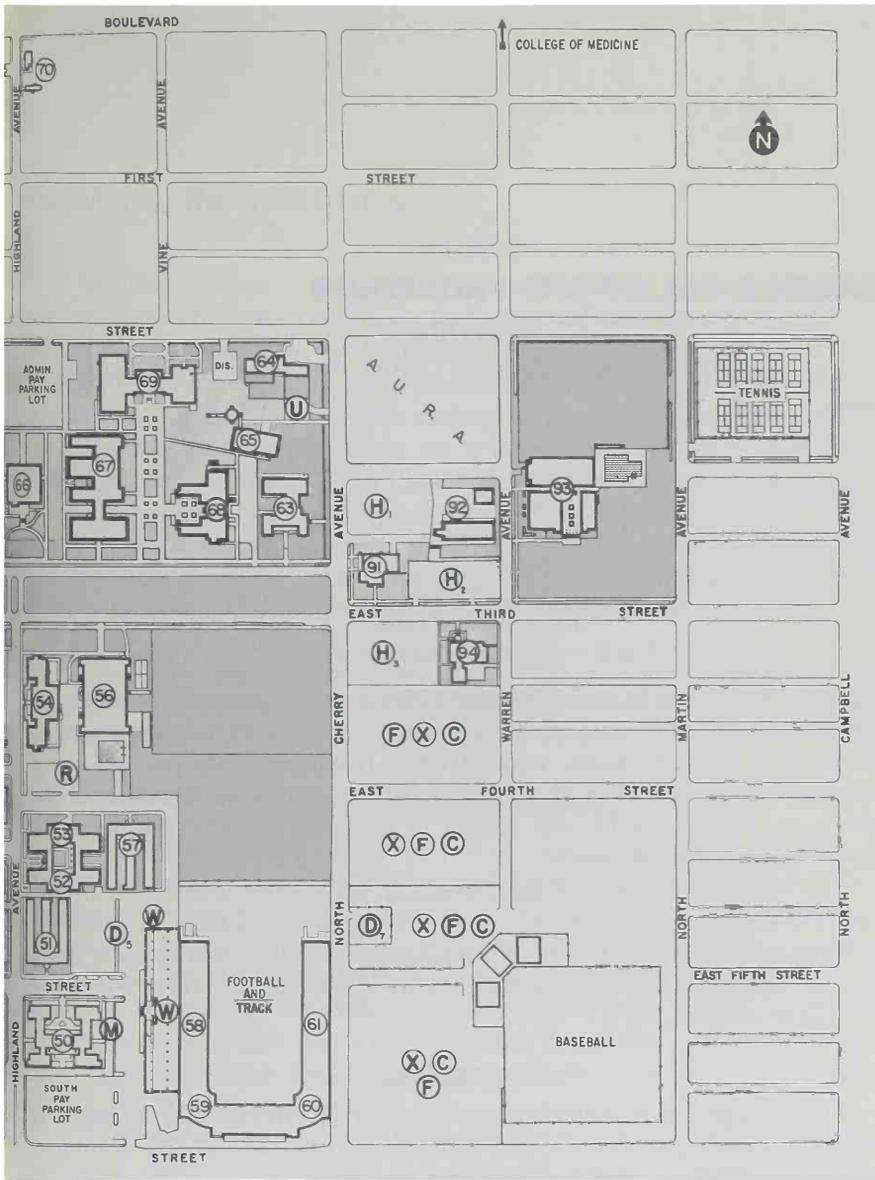
MARTIN AVE.

CAMPBELL AVE.



CAMPUS BUILDING INDEX

- | | | |
|---|--------------------------------|---|
| 1 Park Avenue Shops | 15 Student Union Annex | 30 State Museum & Anthro |
| 2 Art Building & Gallery | 16 Aeronautics | 31 Cochise Hall |
| 3 Drama Building & Theater | 17 Student Union | 32 South Hall |
| 4 Music Building | 18 Reservoir | 33 Home Economics |
| 5 Coconino Hall | 19 Bookstore | 34 Yavapai Hall |
| 6 Pima Hall | 20 Engineering | 35 Herring Hall |
| 7 Manzanita & Mohave Halls | 21 Old Main | 36 Agriculture |
| 8 Gila Hall | 22 Memorial Fountain | 38 Agricultural Sciences |
| 9 Maricopa Hall | 23 Economics & Business Admin. | 39 Pharmacy — Animal Sh
& Greenhouse |
| 10 Yuma Hall | 24 Humanities | 40 Alumni Building |
| 11 Geology | 25 Liberal Arts Annex | 41 Chemistry |
| 12 Mines & Metallurgy | 26 Library | 42 Greenhouses |
| 13 Aerospace & Mechanical
Engineering Labs | 27 Liberal Arts | 43 Biological Sciences |
| 14 Electrical Engineering Lab | 28 Psychology (Old) | 44 Physical Plant Warehouse |
| | 29 Auditorium | |



CAMPUS BUILDING INDEX

- | | | |
|------------------------------|------------------------------------|-------------------------------|
| 45 Purchasing & Stores | 61 East Stadium | 79 Huachuca & Kaibab Halls |
| 46 Power Plant | 63 Infirmary | 80 Law |
| 47 Physical Plant Shops #2 | 64 Nursery & Home Management House | 81 Physics-Math-Meteorology |
| 48 Garage | 65 Steward Observatory | 82 Visual Aids |
| 49 Physical Plant | 66 Administration | 83 Sonora Hall |
| 50 Santa Cruz & Apache Halls | 67 Modern Languages | 84 Arizona Hall |
| 51 Papago Hall | 68 Psychology (New) | 85 Coronado Hall |
| 52 Greenlee Hall | 69 Education | 87 Park Student Center |
| 53 Graham Hall | 70 Ruth Stephan Poetry Center | 88 (Planned new facility) |
| 54 Science Library | 71 Business & Public Admin. | 89 Mathematics (1968) |
| 56 Gymnasium | 72 Civil Engineering | 90 Pharmacy-Microbiology |
| 57 Hopi Hall | 73 Computer Center (1968) | 92 Space Sciences |
| 58 West Stadium | 75 Architecture | 93 Women's Physical Education |
| 59 Pinal Hall | 77 Park Avenue Annex | 94 Optical Sciences (1969) |
| 60 Navajo Hall | 78 Art Studio Annex | |

ACADEMIC POLICY AND PROCEDURE

Grading

The grading system currently being used by the College of Medicine is as follows:

- 1 — Superior
- 2 — Above Average
- 3 — Average
- 4 — Below Average
- 5 — Failure
- 6 — Incomplete (Failing)
- 7 — Incomplete (Passing)
- P or S — Passing, when appropriate

Grades are determined by each department. Students will generally be informed by their instructors when their work is deemed unsatisfactory or below average. The course grade of 5, failure, requires either repetition of the course (or its equivalent), at the discretion of the department concerned; or repetition of the entire year. Final decisions with respect to academic progress are made, at regular intervals, by the faculty.

The Advisory Council of the University, upon recommendation of the Dean of the College of Medicine, reserves the right to suspend, enforce the withdrawal of, or expel a student whose academic standing or conduct is in its judgment unsatisfactory. The student is also subject to all other University rules and regulations.

Counseling

The College has a counseling system wherein each student is assigned to a faculty member, to whom he may turn for assistance and advice. A student may select a different faculty advisor than the one assigned.

GENERAL INFORMATION

Housing

Medical students must assume the responsibility for their own living arrangements. However, assistance in finding accommodations in University housing is available from the Department of Student Housing. Rooms in the University Residence Halls are available for unmarried students if there are vacancies after applications from undergraduates have been processed.

Married students may apply for a unit at the University of Arizona's "Family Housing Project." The Family Housing Project consists of 420, one-story apartments, either furnished or unfurnished, located in northeast Tucson about fifteen minutes drive from the medical school. Further information concerning these married student rental units may be obtained by contacting the Family Housing Office, University of Arizona, 3401 North Columbus Boulevard, Tucson, Arizona.

The University does not presently provide a listing of private or commercial off-campus housing facilities. Information relevant to these facilities may be obtained from the two daily Tucson newspapers or the daily student newspaper.

Student Health Services

The registration fee covers the cost of medical and surgical care, to the extent it is available, at the University of Arizona Student Health Service. If an illness requires special diagnostic or treatment facilities, or the services of an outside physician or consultant (major surgery, complicated medical illness, major fractures or extraordinary services), the cost of such facilities or services must be borne by the student. For this reason, some form of health insurance is strongly advised. For a more complete description of the services available from the Student Health Facility, the student is advised to consult the Biennial Catalog of the University.

Students in the College of Medicine will have a chest X-ray when they arrive on campus. Appropriate skin tests will also be done at this time. At intervals throughout the medical college years, repeat chest X-rays and skin tests will be made. Certain types of vaccinations will also be available to students for a modest additional cost at the Student Health Service.

STUDENT FINANCIAL ASSISTANCE

The College of Medicine administers non-refundable aid (scholarship) and refundable aid (loan) programs to assist students in meeting the cost of medical education. A listing of the aid which is currently available follows:

Non-Refundable Grants-In-Aid

ARIZONA MEDICAL ASSOCIATION SCHOLARSHIP PROGRAM

Source: Benevolent and Loan Fund Committee, Arizona Medical Association.
Eligibility: Arizona residents who are United States citizens and graduates of a University or College, who are qualified, accepted and entering a Class "A" Medical School approved by the Council of Medical Education of the American Medical Association and the Association of American Medical Colleges. Interested students should apply directly to the Benevolent and Loan Fund Committee, Arizona Medical Association Inc., P. O. Box 128, Scottsdale, Arizona, 85252.
Value: \$500.00

LOUISE COBB MEMORIAL SCHOLARSHIP

Source: The estate of Norman B. Cobb in honor of his wife, Mrs. Louise Cobb.
Eligibility: Graduates of Amphitheater High School desiring to obtain a Medical Degree from the University of Arizona while enrolled in the Medical College of the University of Arizona.
Value: Varies.

DR. MORRIS D. COHEN MEMORIAL SCHOLARSHIP

Source: Family and friends of the late Morris D. Cohen, M.D.
Eligibility: A worthy and deserving student in the College of Medicine.
Value: Varies.

HERMAN E. DEMUND MEMORIAL SCHOLARSHIP

Source: The Herman E. DeMund Foundation.
Eligibility: Worthy and promising students selected on the basis of scholastic ability and need and without restriction as to race, religion, or sex.
Value: \$1,500.00

FOLKLANDERS AND ORCHESIS MEDICAL SCHOLARSHIPS

Source: The Folk Dance Club and Modern Dance Honorary of the University of Arizona.
Eligibility: Deserving and needy students enrolled in the College of Medicine.
Value: One grant at \$300.00; and one grant at \$350.00.

CHARLES W. HALL, JR. MEMORIAL SCHOLARSHIP

Source: Family and friends of the late Charles W. Hall, Jr., of St. Louis, Missouri.
Eligibility: A worthy and deserving student in the College of Medicine.
Value: Varies.

HOWARD MELVILLE HANNA MEMORIAL SCHOLARSHIP

- Source:* Mr. Melville H. Haskell of Tucson, in honor of his Grandfather who resided in Cleveland, Ohio; and who was a lifelong friend of the Medical Profession.
- Eligibility:* Worthy and deserving students in the College of Medicine.
- Value:* Three \$1,000 scholarships for each class enrolled in the College.

THE HASKELL BOOK SCHOLARSHIP

- Source:* Mr. Fletcher Haskell and Mr. Ira Haskell. This gift is to cover the cost of books for one student for one year.
- Eligibility:* An outstanding and deserving student in the College of Medicine.
- Value:* \$300.00.

HEALTH PROFESSIONS SCHOLARSHIP PROGRAM

- Source:* Department of Health, Education and Welfare, Public Health Service, Division of Community Health Services.
- Eligibility:* The Health Professions Educational Assistance Amendments of 1965 stipulate that these scholarships may be awarded only to students from low income families, who, without the amount of the scholarship award, could not pursue a course of study at the school during the year for which the award is made.
- Value:* Varies.

NATIONAL MEDICAL-SLOAN FOUNDATION SCHOLARSHIPS

- Source:* The Alfred P. Sloan Foundation, administered by National Medical Fellowships, Inc.
- Eligibility:* These scholarships are limited to male Negro students who are citizens of the United States.
- Value:* Varies.

MR. AND MRS. HARVEY L. OTT SCHOLARSHIP

- Source:* A gift of \$10,000.00 in 1959 from Mr. and Mrs. Harvey L. Ott.
- Eligibility:* Deserving American-born male students enrolled in the College of Medicine.
- Value:* Varies.

PFIZER LABORATORIES MEDICAL SCHOLARSHIP PROGRAM

- Source:* Pfizer Laboratories Division, Charles Pfizer and Company, Inc.
- Eligibility:* A needy and deserving student enrolled in the College of Medicine.
- Value:* \$1,000.00.

THE GEORGE F. SPAULDING SCHOLARSHIP

- Source:* Mr. George F. Spaulding.
- Eligibility:* A worthy and deserving student in the College of Medicine.
- Value:* Varies.

THE DR. SAMUEL HUMES WATSON MEDICAL SCHOLARSHIP

- Source:* Mrs. Jane Watson Lyman.
- Eligibility:* Deserving students (male or female) enrolled in the College of Medicine upon recommendation of the Dean of the College of Medicine to the Faculty Scholarship and Awards Committee.
- Value:* Varies.

ZEMSKY SCHOLARSHIP MEMORIAL

- Source:* Zemsky Memorial contributions.
- Eligibility:* Deserving and needy student enrolled in the College of Medicine.
- Value:* Varies.

Refundable Grants-In-Aid

AMERICAN MEDICAL ASSOCIATION EDUCATION AND RESEARCH FOUNDATION — ARIZONA MEDICAL ASSOCIATION LOAN GUARANTEE PROGRAM

- Source:* American Medical Association Education and Research Foundation and the Arizona Medical Association.
- Eligibility:* All medical students in good standing who are United States citizens may use this loan program provided they are enrolled in full-time training at an American medical school approved by the Council on Medical Education of the American Medical Association. Applications may be obtained by contacting the Admissions Office of the College of Medicine. The completed application should be returned to the Valley National Bank, Professional Services Division, P. O. Box 2084, Phoenix, Arizona, 85001.
- Value:* Loans under the Loan Guarantee Program are limited to \$1500 annually.

COLLEGE OF MEDICINE EMERGENCY LOAN FUND

- Source:* Alumni donations.
- Eligibility:* These funds are available to any student enrolled in the College of Medicine to meet needs of an emergency nature. The loans carry a nominal interest and are repayable within thirty days after the close of the term in which they are borrowed.
- Value:* Varies.

HEALTH PROFESSIONS STUDENT LOAN PROGRAM

- Source:* Department of Health, Education, and Welfare, Public Health Service Division of Community Health Services.
- Eligibility:* The student must be enrolled or accepted for enrollment in a full-time course of study leading to the degree Doctor of Medicine. The student must be in good standing with the school, a citizen of the United States, and be in need of the loan to be able to pursue the course of study.
- Value:* The maximum amount which may be borrowed for an academic year is \$2500.00.

DR. CHARLES W. SECHRIST LOAN FUND

- Source:* A gift from the family of the late Dr. Charles W. Sechrist.
- Eligibility:* A worthy and deserving student enrolled in the College of Medicine with preference given to upperclassmen.
- Value:* Varies.

DEPARTMENTS AND COURSES OF INSTRUCTION

Explanatory Notes

Descriptions of all courses offered in the College of Medicine may be found on the following pages. For convenient reference, the departmental entries are arranged alphabetically.

Course Descriptions

The descriptions on the following pages include the courses that are required in the College of Medicine curriculum, as well as courses intended primarily for graduate students. The latter are listed separately. For further information about graduate study, students should correspond directly with the head of the appropriate department.

Key to Symbols

A course designated by a double number (e.g. Internal Medicine 301a-301b) is presented through two successive semesters, the work of the first semester being prerequisite to that of the second unless otherwise indicated in the statement of prerequisites. For some two-semester courses, the grade in the first semester may be withheld until completion of the second semester. A course designated by a single number (e.g., Anatomy 301) is one semester in length. The semester during which the course is offered is indicated by the numeral I or II. If both I and II appear, the course is repeated each semester. A student registering for a course intended primarily for graduate students must either meet the listed prerequisites or otherwise satisfy the instructor of his ability to take the course. The University reserves the right to cancel any course not elected by an adequate number of students.

() Following the course title, indicates the unit value assigned to the course for each semester. One unit usually represents one hour of lecture or recitation, or three hours of laboratory work, per week for a semester.

I,II Indicates the semester during which a one semester course is offered (i.e., "I", first semester; "II", second semester; "I, II", both semesters).

Yr. Indicates that a course is given throughout the year, the first half of the course being offered in the first semester, and the second half in the second semester. Where one or both halves of a year are offered in each semester, this is indicated in the course description.

P Indicates "prerequisite."

CR Indicates "concurrent registration."

Anatomy

Philip H. Krutzsch, *Professor of Anatomy, Head*
 Jay B. Angevine, Jr., *Associate Professor of Anatomy*
 Lawrence K. Schneider, *Assistant Professor of Anatomy*
 Roy Horst, *Instructor of Anatomy*

Anatomy has central responsibility for the presentation and study of morphological systems. Its contributions occur at the gross, microscopic, and ultrastructural levels and have exerted strong influence on many areas of biology and medicine over the years. This discipline has established fundamental facts and methods supporting modern concepts of animal biology. It is the desire and purpose of the Anatomy Department to express a meaningful picture of the discipline and its relationship to the synthesis of chemical, physical and biological facts in a challenging and responsible program basic for continued growth and application by the developing physician.

COURSE DESCRIPTIONS

301. Neurosciences (3) II Angevine-Stuart
 Essentials of mammalian neural structure and function. P, Chem. 2b, 43b, 45b; Physics 2b; Zool. 1b and one of the following, Zool. 240, 252. (Identical with Physiol. 301)
304. Human Microscopic Anatomy (4) I Staff
 Essentials of microscopic human anatomy. P, Chem. 2b, 43b, 45b; Physics 2b; Zool. 1b and one of the following: Zool. 145, 147.
308. Gross Human Anatomy (6) I Krutzsch-Staff
 Comprehensive survey of the structure of the human body. P, Chem. 2b, 43b, 45b; Physics 2b; Zool. 1b, 145.

Courses Primarily for Graduate Students

299. Special Problems (1-6) I, II Staff
 Individual or independent work, directed reading, or special problems under the supervision of a member of the faculty.
302. Comparative Vertebrate Neuroanatomy (3) I Angevine-Staff
 A presentation of the comparative structure of the central nervous system in selected examples of the various vertebrates. P, 301; Zool. 145.
305. Special Topics in Microscopic Structure (3) II Horst-Staff
 Selected concepts of structural organization at light and electron microscopic levels of the anatomy and development of the cells, tissues and organs of vertebrates. P, 304, 308; Zool. 145; Permission of Instructor.
309. Selected Topics in Gross Human Anatomy (2-6) II Krutzsch-Staff
 Study in depth of the gross human anatomy of selected areas or systems. P, 304, 308.
- 310a-310b. Anatomical Techniques (3-3) I, II Staff
 Introduction to special techniques and procedures of analytical anatomy. P, 304, 308; Permission of Instructor.
313. Experimental Cytology (3) II Staff
 A special program designed to train students in the techniques of cytological investigation. P, 304; Chem. 260, 261, 360; Permission of Instructor.
400. Research in Anatomy (1-8) I, II Staff
 Individual research not related to a thesis for an advanced degree.

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|---|-------|
| 401. Extended Registration (0) I, II
For students not completing a thesis, dissertation or internship. | Staff |
| 410. Thesis (1-8) I, II
Research for the master's thesis. | Staff |
| 411. Extended Registration Thesis (0) I, II
For students completing a thesis. | Staff |
| 420. Dissertation (0-9) I, II
Research for the doctoral dissertation. | Staff |
| 421. Extended Registration, Dissertation (0) I, II
For students completing a dissertation. | Staff |

Biochemistry

Donald J. Hannahan, *Professor of Biochemistry, Head*
 Christopher K. Mathews, *Associate Professor of Biochemistry*
 Athol L. Cline, *Assistant Professor of Biochemistry*
 Michael A. Wells, *Assistant Professor of Biochemistry*

The Department of Biochemistry offers instruction in biochemistry to medical students and also provides a wide spectrum graduate program leading to the Ph.D. degree in biochemistry. Research endeavors within the department, which include the participation of graduate students and post-doctoral fellows, cover the areas of biochemical genetics, phage metabolism, enzymology, control mechanisms, brain biochemistry, membrane structure, and lipid chemistry and biochemistry.

COURSE DESCRIPTIONS

- | | |
|---|------------------------|
| 265. Medical Biochemistry (6) I
A course specifically designed for medical students. | Staff |
| Courses Primarily for Graduate Students | |
| 361. Introduction to Biochemical Literature (1) I
Special course designed to supplement Chemistry 260, in which a more detailed consideration of subject matter of immediate lectures is involved. Primarily for those students planning a career in biochemistry and who wish to prepare themselves for further graduate study. Required of all first year biochemistry graduate students. P, CR Chem. 260. | Staff |
| 368. Biological Regulatory Mechanisms (2) I
Control mechanisms affecting formation and function of biological macromolecules. P, Chem. 260. | Mathews, Jensen |
| 369. Biochemistry of Lipids (2) II
Chemistry and metabolism of simple and complex lipids, including aspects of membrane structure and function. P, Chem. 260. | Hannahan, Wells, Adams |
| 398. Special Topics (1 to 5) I, II
Open only to doctoral students who wish to pursue topics not covered in regularly scheduled courses. Arrangements must be made with the appropriate staff members and the Biochemistry Program Chairman before registration. P, Graduate College enrollment. | Staff |
| 399. Seminar (1 to 3) I, II
Student reports on current research topics. Required for all graduate students in Biochemistry. P, Graduate College enrollment. | Staff |

Community Medicine

Herbert K. Abrams, *Professor of Community Medicine, Head*
 Boyden L. Crouch, *Professor of Community Medicine*
 Myron D. Miller, *Professor of Community Medicine*
 James R. Shaw, *Professor of Community Medicine*

This Department will introduce the student to the socio-environmental factors in health, and the values of family and community orientation to medical practice. By means of seminars, projects, lectures and clinics, and in collaboration with other departments, students will learn the elements of epidemiology, public health, medical care organization, and clinical preventive medicine.

The Department will operate within a neighborhood health center in Tucson in which the student, by participation, will learn the principles of medical practice and the attainment of high quality of medical care characterized by comprehensiveness, continuity and personal concern for the patient.

Internal Medicine

Oscar A. Thorup, *Professor of Internal Medicine, Head*
 Benjamin Burrows, *Professor of Internal Medicine; Head, Section of Pulmonary Disease*
 David Rifkind, *Professor of Internal Medicine; Head, Section of Infectious Disease*
 William A. Sibley, *Professor of Internal Medicine; Head, Division of Neurology*
 William F. Denny, *Associate Professor of Internal Medicine*
 Louis J. Kettel, *Associate Professor of Internal Medicine*
 Alexander H. Woods, *Associate Professor of Internal Medicine*
 Harvey Wm. Buchsbaum, *Assistant Professor of Internal Medicine*
 Paul R. O'Bar, *Assistant Professor of Internal Medicine*

The Department of Internal Medicine accepts the following responsibilities in the education of undergraduate medical students: to prepare the student to interview and examine patients in order to understand the nature of their complaints; to explore with students the pathophysiology of various disorders in order to acquaint them with what is known and that which is yet to be understood.

COURSE DESCRIPTIONS

301a-301b. Introduction to Clinical Medicine (1-1) Yr. Staff
 The procedures and processes of medical interviewing will be discussed in detail and demonstrated. The mechanisms of starting the interview, the phases of history-taking, the duration, number and frequency of interviews and methods by which interviews may be ended will all be discussed.

Microbiology

David Rifkind, *Professor of Microbiology, Head*
 Paul R. O'Bar, *Assistant Professor of Microbiology*

The Department teaches microbiology to the students of the College of Medicine. Research in the Department is directed toward basic microbiology and the application of these principles to health-related problems. Facilities for graduate and postdoctoral trainees are available. The Department also participates in the area of infectious diseases in the Department of Medicine.

COURSE DESCRIPTIONS

301. Medical Microbiology (6) II Staff
 The biological characteristics of microorganisms of importance in human health and disease; the reaction of the host to infectious agents and the mechanisms of host defense; diagnosis and management of infectious disease. Lectures, discussions, demonstrations and laboratory experiments. P, Biol. 1b; Chem. 41b, 43b.

Pathology

Jack M. Layton, *Professor of Pathology, Head*
 John R. Davis, *Associate Professor of Pathology*

The Department of Pathology has responsibility for both anatomical and clinical pathology. The objective in the study of pathology is to gain increased understanding of disease — the causes, mechanisms, and secondary alterations which occur in body structure and function — exploiting whatever methods will provide the physician with a solid body of facts from which he can reason, deduce and prognosticate.

COURSE DESCRIPTIONS

- *301a-301b. General and Systemic Pathology (9) I, II Staff
 Lectures, conferences, demonstrations, and laboratory investigations relating to disease. Use of current autopsy, biopsy, and clinical pathology material.

*Subject to change, pending Administrative review and approval.

Physiology

Paul C. Johnson, *Professor of Physiology, Head*
 William H. Dantzler, *Associate Professor of Physiology*
 Douglas G. Stuart, *Associate Professor of Physiology*
 Raphael P. Gruener, *Assistant Professor of Physiology*

The Department of Physiology teaches and does scholarly work on physiological mechanisms of significance to medicine. In both teaching and research the orientation of the Department is broad, encompassing single cell, organ and total body function.

COURSE DESCRIPTIONS

301. Neurosciences (3) II Stuart-Angevine
 P, CR Physiol. 302. (Identical with Anatomy 301)
302. Human Physiology (8) II Staff
 Principles of physiology with emphasis on that of the human. P, Chem. 2b; Physics 2b; CR Physiol. 301.

Social Perspectives in Medicine

Richard R. Willey, *Director of Social Perspectives in Medicine*

The physician of tomorrow will be better prepared to assume his professional responsibilities if he has an understanding of the role that medicine plays on the contemporary scene. The Division of Social Perspectives in Medicine will provide this opportunity by offering seminars and colloques which will encompass certain aspects of anthropology, sociology, economics, law, theology, philosophy, and other humanistic disciplines where they are relevant to medicine. The faculty will be made up of guest participants and the topics covered will include such subjects as birth control, eugenics, abortion, death, human experimentations, privacy, the nature of consent, etc.

ADMINISTRATION

(Year of first appointment to faculty in parentheses after each name)

- MERLIN K. DUVAL (1964).....*Dean of the College of Medicine*
A.B., 1943, Dartmouth College; M.D., 1946, Cornell University.
- DAVID BISHOP (1965).....*Librarian*
B.A., 1952, Dalhousie University; M.S.L.S., 1958, Columbia University.
- DANIEL W. CAPPS (1968).....*Hospital Administrator*
B.S., 1951, Berea College; M.S., 1961, University of Kentucky; M.B.A. in Business Admin.
(Hospital Admin.) 1964, Graduate Program in Hospital Administration, University of Chicago.
- SAMUEL HODESSON (1967).....*Director of Animal Resources*
D.V.M., 1943, Ohio State University; M.P.H., 1966, University of California, Los Angeles.
- JOHN D. PALMER (1966).....*Director of the Multidiscipline Laboratories*
B.S., 1954, M.S., 1955, University of Colorado; Ph.D., 1961, M.D., 1962, University of Minnesota.

FACULTY

- ABRAMS, HERBERT K.* (1968).....*Professor, Community Medicine*
B.S., 1936, Northwestern University; M.S., M.D., 1940, University of Illinois College of Medicine;
M.P.H., 1947, John Hopkins University.
- ANGEVINE, JAY B., JR. (1967).....*Associate Professor, Anatomy*
B.A., 1949, Williams College; M.A., 1952, Ph.D., 1956, Cornell University.
- BURROWS, BENJAMIN (1968).....*Professor, Internal Medicine*
M.D., 1949, Johns Hopkins Medical School.
- BUCHSBAUM, HARVEY W. (1968).....*Assistant Professor, Internal Medicine*
A.B., 1957, Hamilton College; M.D., 1961, Albany Medical School. (Neurology)
- CLINE, ATHOL L. (1968).....*Assistant Professor, Biochemistry*
B.S., 1958, Whitman College; M.S., 1960, University of Oregon; Ph.D., 1964, University of Kentucky.
- CROUCH, BOYDEN L. (1968).....*Professor, Community Medicine*
B.A., 1943, Milton College; M.D., 1946, University of Kansas.
- DANTZLER, WILLIAM H. (1968).....*Associate Professor, Physiology*
B.S., 1957, Princeton University; M.D., 1961, Columbia University; Ph.D., 1964, Duke University.
- DAVIS, JOHN R. (1967).....*Associate Professor, Pathology*
B.A., 1952, University of Iowa; M.D., 1959, University of Iowa.
- DENNY, WILLIAM F. (1967).....*Associate Professor, Internal Medicine*
B.S., 1949, Central State College; M.D., 1953, University of Oklahoma School of Medicine.
- GRUENER, RAPHAEL P. (1968).....*Assistant Professor, Physiology*
B.A., 1961, University of California; M.A., 1963, University of Illinois;
Ph.D., 1966, University of Illinois.
- HANAHAH, DONALD J.* (1967).....*Professor, Biochemistry*
A. A., 1939, Springfield Junior College; B.S., 1941, Ph.D., 1944, University of Illinois.
- HORST, ROY (1967).....*Instructor, Anatomy*
B.S., 1959, Wagner College; Ph.D., 1967, Cornell University.
- JOHNSON, PAUL C.* (1967).....*Professor, Physiology*
B.S., 1951, M.A., 1953, Ph.D., 1955, University of Michigan.
- KETTEL, LOUIS J. (1968).....*Associate Professor, Internal Medicine*
B.S., 1951, Purdue University; M.D., 1954, M.S., 1958, Northwestern University.
- KRUTZSCH, PHILIP H.* (1964).....*Professor, Anatomy*
A.B., 1943, San Diego State College; M.A., 1948, University of California;
Ph.D., 1953, University of Kansas.
- LAYTON, JACK M.* (1967).....*Professor, Pathology*
A.B., 1939, Luther College; M.D., 1943, University of Iowa.
- MATHEWS, CHRISTOPHER K. (1967).....*Associate Professor, Biochemistry*
B.A., 1958, Reed College; Ph.D., 1962, University of Washington Graduate School.
- MELICK, DERMONT W. (1967).....*Professor, Surgery*
B.S., 1931, University of Arizona; M.D., 1935, University of Pennsylvania;
M.Sc. (Med.), 1941, D.Sc. (Med.), 1945, University of Pennsylvania Graduate School.

*Department Head.

- MILLER, MYRON D. (1968).....*Professor, Community Medicine*
M.D., 1927, University of Louisville; M.P.H., 1946, University of Michigan.
- O'BAR, PAUL R. (1967).....*Assistant Professor, Internal Medicine and Microbiology*
B.S., 1954, M.D., 1957, University of Oklahoma School of Medicine.
- RIFKIND, DAVID* (1967).....*Professor, Microbiology and Internal Medicine*
A.B., 1950, Ph.D., 1953, University of California, Los Angeles; M.D., 1957, University of Chicago.
- SCHNEIDER, LAWRENCE K. (1968).....*Assistant Professor, Anatomy*
B.A., 1960, University of Washington; Ph.D., 1966, University of Washington.
- SHAW, JAMES R. (1962).....*Professor, Community Medicine*
A.B., 1936, Michigan State Normal College; M.D., 1936, University of Michigan;
D.Sc., 1961, Eastern Michigan University.
- SIBLEY, WILLIAM A. (1967).....*Professor, Internal Medicine (Neurology)*
B.S., 1945, M.D., 1948, Yale University.
- STUART, DOUGLAS G. (1967).....*Associate Professor, Physiology*
D.P.E., 1950, Sydney Teachers College, Australia; B.S., 1955, M.A., 1956, Michigan State University;
Ph.D., 1961, University of California, Los Angeles.
- THORUP, OSCAR A., JR.* (1966).....*Professor, Internal Medicine*
B.A., 1944, M.D., 1946, University of Virginia.
- WELLS, MICHAEL A. (1967).....*Assistant Professor, Biochemistry*
B.A., 1961, University of Southern California; Ph.D., 1965, University of Kentucky.
- WILLEY, RICHARD R.* (1968).....*Director, Social Perspectives in Medicine*
Ph.B., 1947, B.S., 1948, Ph.D., 1951, University of Chicago.
- WOODS, ALEXANDER H. (1967).....*Associate Professor, Internal Medicine*
B.S., 1948, Harvard; M.D., 1952, Johns Hopkins Medical School.

LIBRARY STAFF

- BISHOP, DAVID (1965).....*Librarian*
B.A., 1952, Dalhousie University; M.S.L.S., 1958, Columbia University.
- GLOYD, KATHERINE J. (1959).....*Assistant Reference Librarian*
B.S., 1939, B.S.L.S., 1948, University of Illinois; M.S., 1940, University of Maryland.
- HIGDON, THOMAS D. (1965).....*Catalog Librarian*
B.S., 1957, University of Oklahoma; M.S.L.S., 1958, Columbia University.
- HINKLE, ELIZABETH (1967).....*Reference Librarian*
B.S., R.N., 1943, Northern State Teachers College and Presentation School of Nursing;
M.S.L.S., 1960, University of Texas Graduate School — Library Science.
- KASPER, JACQUELYN (1967).....*Assistant Catalog Librarian*
B.A., 1965, Kansas Wesleyan University; M.S.L.S., 1966, University of Southern California.
- MILLER, MIRIAM E. (1960).....*Acquisitions Librarian*
B.S., 1938, West Virginia University; M.S.L.S., 1962, University of California.

ARIZONA REGIONAL MEDICAL PROGRAM

- MELICK, DERMONT W. (1967).....*Coordinator*
B.S., 1931, University of Arizona; M.D., 1935, University of Pennsylvania;
M.Sc. (Med.), 1941, D.Sc. (Med.), 1945, University of Pennsylvania Graduate School.
- CROUCH, BOYDEN L. (1968).....*Associate Director of Education & Communications*
B.A., 1943, Milton College; M.D., 1946, University of Kansas.
- FLYNN, JOHN F. (1968).....*Assistant to the Coordinator*
B.S.C., 1938, University of Iowa.
- KNAPP, MARGARET F. (1968).....*Associate Professor, Nursing*
R.N., 1928, Memorial Hospital, Ithaca, New York; B.S., 1941, Syracuse University;
M.P.H., 1949, Yale University.
- MILLER, MYRON D. (1968).....*Assistant Coordinator of Facilities and Equipment*
M.D., 1927, University of Louisville; M.P.H., 1946, University of Michigan.
- SHAW, JAMES R. (1962).....*Associate Director*
A.B., 1936, Michigan State Normal College; M.D., 1936, University of Michigan;
D.Sc., 1961, Eastern Michigan University.
- WOLANIN, MARY O. (1968).....*Associate Professor, Nursing*
B.S., 1954, University of Arizona; M.P.A., 1963, University of Arizona.

*Department Head.

CLASS OF 1971
(Enrolled 1967)

BAILEY, Stephen P.
 University of Arizona
 Arizona State University
 Tempe, Arizona
 BAILEY, Thomas S.
 Arizona State University
 Phoenix, Arizona
 BLACKBURN, Edra Eileen
 Arizona State University
 Cottonwood, Arizona
 BLAZER, Shirley C.
 Arizona State University
 Phoenix, Arizona
 BLUTE, James Francis
 Cornell University
 University of Arizona
 Tucson, Arizona
 DARWIN, George Hiram, Jr.
 University of Arizona
 Tucson, Arizona
 FREEMAN, Michael J.
 Arizona State University
 Tempe, Arizona
 HALL, Stephen William
 Arizona State University
 Phoenix, Arizona
 HENDERSON, Ross D.
 University of Arizona
 Tucson, Arizona
 HENRY, Patrick Gerald
 Arizona State University
 Scottsdale, Arizona
 HICKS, Thomas Harvey
 Arizona State University
 Scottsdale, Arizona
 INGLE, Marc Hall
 Pasadena College
 Phoenix, Arizona
 KRAMER, Sandra Lee
 University of Arizona
 Tucson, Arizona
 KREUZER, Frederick Alan
 Northern Arizona University
 Las Vegas, Nevada
 LAUGHEAD, Marilyn Kay
 University of Arizona
 Prescott, Arizona
 LIND, Timothy A.
 Lafayette College
 Phoenix Junior College
 University of Arizona
 Tucson, Arizona
 LUNDELL, Dwight Carl
 Eastern Arizona College
 University of Arizona
 Thatcher, Arizona
 MELDE, Richard A.
 Occidental College
 Scottsdale, Arizona
 MUNYON, Judy Kathleen
 Phoenix College
 Arizona State University
 Phoenix, Arizona
 OVERTON, Todd Howze
 Texas Christian University
 Southern Methodist University
 Arizona State University
 Tempe, Arizona
 PLATT, Michael Anthony
 University of Arizona
 Tucson, Arizona
 REID, William Stuart, Jr.
 Phoenix Junior College
 Arizona State University
 Phoenix, Arizona
 ROLLE, Charles Joseph
 University of Arizona
 Flagstaff, Arizona
 ROSS, Donald John
 University of California, Berkeley
 Berkeley, California
 SHOEN, Samuel William
 College of the Holy Cross
 Phoenix, Arizona
 SONNTAG, Volker Karl
 Arizona State University
 Phoenix, Arizona
 SPENCER, Roger Allen
 Stanford University
 San Diego, California
 TAYLOR, Gary Nile
 Northwestern University
 University of Utah
 University of Arizona
 Salt Lake City, Utah
 VONDRAK, Terry Howard
 Arizona State University
 University of Arizona
 Tucson, Arizona
 WALMSLEY, Sandra LaVerne
 Arizona State University
 Phoenix, Arizona
 WANAGO, William Stephen
 University of Arizona
 Tucson, Arizona
 WEAVER, John Scott
 University of Arizona
 Tucson, Arizona

CLASS OF 1972
(Enrolled 1968)

ALLEN, David R.
University of Arizona
Tucson, Arizona

BARKER, G. Thomas
Colorado College
University of Colorado
Arizona State University
Phoenix, Arizona

BAUMGARTNER, Thomas A.
Pacific Lutheran University
Scottsdale, Arizona

BOUNDS, James V., Jr.
Arizona State University
Phoenix, Arizona

BOWE, Patricia A.
Arizona State University
Tempe, Arizona

BRINEGAR, Becky L.
Stanford University
Tucson, Arizona

CALKINS, Charles A.
Arizona State University
Scottsdale, Arizona

DIXON, Patricia A.
University of Missouri
University of Arizona
Tucson, Arizona

DOUGLAS, Mel E.
Montana State University
University of Montana
University of Arizona
Tucson, Arizona

DURAND, Stephen V.
University of Arizona
Mesa, Arizona

FALVEY, Michael P.
University of Arizona
Tucson, Arizona

FRASER, Kenneth R.
University of Arizona
Northern Arizona University
Tucson, Arizona

GRIFFIN, Thomas F., Jr.
University of Arizona
Sedona, Arizona

HANEY, Arthur F.
University of Pennsylvania
Broomall, Pennsylvania

HENDRICKS, Lynn A.
Arizona State University
Phoenix, Arizona

KETCHEL, STEVEN J.
Stanford University
University of Arizona
Downey, California

KUNKEL, Joel W.
University of Bridgeport
Phoenix College
University of Arizona
Tucson, Arizona

LEONARD, Jeffrey A.
University of Arizona
Phoenix, Arizona

LINDSTROM, Steve E.
Arizona State University
Tempe, Arizona

LONGSTRETH, Paul L.
Arizona State University
Phoenix, Arizona

MARGOLIS, Harold S.
University of Arizona
Tucson, Arizona

MILLER, Gary L.
Arizona State University
Phoenix, Arizona

MOLENICH, Shirley A.
University of Michigan
Arizona State University
Tempe, Arizona

MOUER, John W.
University of Arizona
Tucson, Arizona

PICCINATI, Arthur J.
Harvard College
Scottsdale, Arizona

STOKER, David L.
Arizona State University
Scottsdale, Arizona

TEMPLE, James T.
Westmont College
University of Arizona
Prescott, Arizona

THOMAS, David B.
Johns Hopkins University
Ventnor, New Jersey

TOM, Soleng, Jr.
Stanford University
Tucson, Arizona

WEAVER, Michael J.
University of Arizona
Tucson, Arizona

WEISMANN, Douglas N.
Occidental College
Phoenix, Arizona

WESOLOWSKI, David P.
Allan Hancock College
Phoenix College
Arizona State University
University of Arizona
Universidad Autonoma Guadalajara
Phoenix, Arizona

TIMETABLE FOR 1969–1970

Filing of formal application by applicant		
Earliest Date		1 July 1968
Latest Date	December 1, 1968 (Completed)	
Application Fee		\$10 (non-resident)
Notification of acceptance by school		
Earliest Date		September 1968
Latest Date		varies
Usual time from receipt of application to acceptance notice		varies
<i>MAY</i> give early decision to applicant accepted elsewhere but preferring this school.		
Applicant response to acceptance offer		
Preferred time for response		2 weeks
Maximum time for response		2 weeks
Deposit fee to hold place in class (applies to tuition):		
<i>due with acceptance</i>		\$50.00
Deadline for cancellation of acceptance		
(deposit refundable prior to this date)		15 January 1969
Other information on 1969–70 1st year class		
Starting date		8 September 1969
Estimated size of class		64

