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SCHOOL OF MEDICINE

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Columbia, Missouri

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FEBRUARY 1, 1939

FACULTY

FREDERICK ARNOLD MIDDLEBUSH, President of the University.

A.B., 1913; A.M., 1914; Ph.D., 1916, Michigan; LL.D., Knox, 1937;
Hope, 1937.

DUDLEY STEELE CONLEY, Dean of the Faculty of Medicine, Director of the
University Hospitals, Professor of Surgery.

B.L., 1889, Missouri; M.D., 1906, Columbia.

MAZYCK PORCHER RAVENEL, Emeritus Professor of Medical Bacteriology
and Preventive Medicine.

M.D., 1884, Medical College of South Carolina.

MAX MAPES ELLIS, Professor of Physiology and Pharmacology.

A.B., 1907, A.M., 1908; Ph.D., 1911, Indiana; Sc.D., 1914, Vincennes
Univ.

ADDISON GULICK, Professor of Physiological Chemistry.

A.B., 1904, Oberlin; A.M., 1905, Harvard; Ph.D., 1905 Wurzburg,
Germany.

MARCUS PINSON NEAL, Professor of Pathology, Director of the Laboratory
of the University Hospitals.

M.D., 1912, University College of Medicine.

MILTON DAVID OVERHOLSER, Professor of Anatomy.

A.B., 1923; A.M., 1924, Missouri; Ph.D., 1928, New York; M.D.,
1931, New York University, College of Medicine.

DAN GISH STINE, Professor of Medicine, Director of Medical Services in
the University Hospitals, Director of Student Health.

A.B., 1907, Missouri; M.D., 1911, Harvard.

CLAUDE ROSWELL BRUNER, Associate Professor of Ophthalmology and
Oto-Laryngology and Oculist and Aurist in the Student Health Service.

A.B., 1924, Missouri; M.D., 1926, Northwestern.

RICHARD LEE CROUCH, Associate Professor of Anatomy.

A.B., 1925; B.S. in Med., 1926; A.M., 1929; Ph.D., 1932, Missouri;
M.D., 1937, St. Louis University.

MERL PERROTT MOON, Associate Professor of Medical Bacteriology and
Preventive Medicine.

A.B., 1915; M.S., 1920; Ph.D., 1923, Cornell.

- DUDLEY ANDERSON ROBNETT, Associate Professor of Pathology.
A.B., 1916; A.M., 1917, Missouri; M.D., 1919, Johns Hopkins.
- WILLIAM JAMES STEWART, Associate Professor of Orthopedic Surgery,
Orthopedist to the Student Health Service.
B.S., 1921, Kenyon; M.D., 1927, Pennsylvania.
- NEWELL RICHARD ZIEGLER, Associate Professor of Bacteriology and Pre-
ventive Medicine.
B.S., 1925; M.S., 1926; M.B., M.D., 1928; Ph.D., 1930, Minnesota.
- RICHARD S. BATTERSBY, Assistant Professor of Pediatrics.
M.D., 1908, St. Louis Univ.
- KARL D. DIETRICH, Assistant Professor of Surgery, Assistant Surgeon in
the Student Health Service.
M.D., 1926, Washington Univ.
- HURLEY L. MOTLEY, Assistant Professor of Physiology and Pharmacology.
A.B., 1930; A.M., B.S., 1932; Ph.D., 1934, Missouri; M.D., 1936,
Harvard.
- JAMES H. PEERS, Assistant Professor of Pathology.
A.B., 1926, Brown Univ. M.D., C.M., 1931, McGill Univ.
- LEMEN J. WELLS, Assistant Professor of Anatomy.
B.S. in Ed., 1927, Southern Ill. State Teachers Col.; M.S., 1928,
Northwestern Univ., Ph.D., 1934, Chicago.
- BERTIS A. WESTFALL, Assistant Professor of Physiology and Pharmacolo-
gy.
A.B., 1933; A.M., 1934; Ph.D., 1938, Missouri.
- MILDRED W. BROWN, Instructor in Pathology.
B.A., 1917, Wellesley Col., M.S., 1924, Iowa.
- MAURICE E. COOPER, Instructor in Medicine.
S.B., 1925, Chicago; M.D., 1930, Rush Med. Col.
- RALPH T. HARSH, Instructor in Physiology.
A.B., 1936; A.M., 1938, Missouri.
- MAURICE A. LEECH, Instructor in Medicine, Assistant Physician in the
Student Health Service.
B.S., Missouri 1934; M.D., 1936, Washington Univ.
- DAVID V. LEMONE, Instructor in Roentgenology, Roentgenologist to the
University Hospitals.
A.B., 1931; B.S., 1932; Missouri; M.D., 1934, Washington Univ.

OLIVER H. PETERSON, Instructor in Medical Bacteriology and Preventive Medicine.

B. Chem., 1932, Minnesota; A.M., 1933, Missouri.

LLOYD E. THOMAS, Instructor in Biochemistry.

B.S., 1931; M.S., 1933, Univ. of Washington; Ph.D., 1938; Stanford Univ.

JAMES C. COPE, Assistant in Anatomy.

A.B., 1934, William Jewell Col.

GEORGE D. SHULL, Assistant in Anatomy.

WILLIAM E. SULLENS, Assistant in Anatomy.

A.B., 1937, Missouri.

WM. S. DYE, Assistant in Physiology.

J. EUGENE LEWIS, Assistant in Physiology.

A.B., 1938, Missouri.

CARL RAU, Assistant in Physiology.

WILLIAM B. SEE, Assistant in Physiology and Pharmacology.

A.B., 1937, Missouri.

RICHARD E. BANNER, Assistant in Biochemistry.

A.B., 1937, Kansas.

IRBY M. BUNDING, Assistant in Biochemistry.

A.B., 1938, Missouri.

STAFF AND ADMINISTRATORS
of the
UNIVERSITY HOSPITALS

DUDLEY S. CONLEY, M.D.....	<i>Director of the Hospitals</i>
DAN G. STINE, M.D.....	<i>Director of the Medical Services</i>
M. PINSON NEAL, M.D....	<i>Pathologist and Director of Hospital Laboratory</i>
WILLIAM J. STEWART, M.D.....	<i>Orthopedist</i>
NEWELL R. ZIEGLER, M.D.....	<i>Bacteriologist</i>
HORACE E. ALLEN, M.D.....	<i>Oculist</i>
CLAUDE R. BRUNER, M.D.....	<i>Aurist and Laryngologist</i>
RICHARD S. BATTERSBY, M.D.....	<i>Pediatricist</i>
AUGUST W. KAMPSCHMIDT, M.D.....	<i>Dermatologist</i>
D. V. LEMONE, M.D.....	<i>Roentgenologist</i>
H. M. YOUNG, M.D.....	<i>Urologist</i>
C. W. DIGGES, D.D.S.....	<i>Consulting Dental Surgeon</i>
CHAS. A. LEECH, M.D.....	<i>Assistant Physician</i>
KARL D. DIETRICH, M.D.....	<i>Assistant Surgeon</i>
MAURICE E. COOPER, M.D.....	<i>Instructor in Medicine</i>
FRANK E. DEXHEIMER, M.D.....	<i>Anesthetist</i>
JOSEPH E. ALLEN, M.D.....	<i>Resident Physician</i>
JAMES M. BAKER, M.D.....	<i>Resident Physician</i>
KENNETH C. COFFELT, M.D.....	<i>Resident Physician</i>
WILLIAM GALEOTA, M.D.....	<i>Resident Physician</i>
ALVIN C. SCHOPP, M.D.....	<i>Resident Surgeon in Orthopedics</i>
MILDRED W. BROWN, M.A.....	<i>Assistant, Hospital Laboratory</i>
LOUISE HILLIGAS, R.N.....	<i>Superintendent</i>
HELEN NAHM, R.N.....	<i>Director of Nursing Personnel</i>
AMY L. ELKINS, R.N.....	<i>Assistant Director of Nursing Personnel</i>
SUSAN TILLERY, M.A.....	<i>Dietitian</i>
LULU MARTIN, R.N.....	<i>Supervisor, Operating Rooms</i>
MARIBETH SAPP, R.N.....	<i>Supervisor, Student Health Service</i>
EDITH COOPER, R.N.....	<i>Supervisor, Medical and Surgical Service</i>
FRANCES GILBERT, R.N.....	<i>Supervisor, Obstetrical Service</i>
GERTRUDE WELSH, R.N.....	<i>Supervisor Communicable Disease Nursing Service</i>
MARIE TENER, R.N.....	<i>Supervisor, Orthopedic Service</i>
FAYE FRANKLIN, R.N.....	<i>Night Supervisor</i>
MARIAN ASPLEY, R.N.....	<i>Head Nurse, Free Clinic Service</i>
LOUISE BARNHARDT, B.S.....	<i>Physiotherapist</i>

STUDENT HEALTH SERVICE

D. G. STINE, M.D.....	<i>Director, Physician</i>
D. S. CONLEY, M.D.....	<i>Surgeon</i>
C. R. BRUNER, M.D.....	<i>Aurist and Laryngologist</i>
H. E. ALLEN, M.D.....	<i>Oculist</i>
W. J. STEWART, M.D.....	<i>Orthopedist</i>
A. W. KAMPSCHMIDT, M.D.....	<i>Assistant Physician</i>
C. A. LEECH, M.D.....	<i>Assistant Physician</i>
K. D. DIETRICH, M.D.....	<i>Assistant Surgeon</i>
J. E. ALLEN, M.D.....	<i>Resident Physician in Eye, Ear, Nose and Throat</i>
J. M. BAKER, M.D.....	<i>Resident Physician</i>
K. C. COFFELT, M.D.....	<i>Resident Physician</i>
WM. GALEOTA, M.D.....	<i>Resident Physician</i>
A. C. SCHOPP, M.D.....	<i>Resident Surgeon in Orthopedics</i>
F. E. DEXHEIMER, M.D.....	<i>Anesthetist</i>
M. P. NEAL, M.D.....	<i>Pathologist</i>
N. R. ZIEGLER, M.D.....	<i>Bacteriologist</i>
D. V. LEMONE, M.D.....	<i>Roentgenologist</i>
FRED. MCKINNEY, Ph.D.....	<i>Psychologist</i>
MARIBETH SAPP.....	<i>Supervisor</i>
ANITA STELZER.....	<i>Graduate Nurse</i>
DOROTHEA GOODE.....	<i>Graduate Nurse</i>
ILENE TUCKER.....	<i>Graduate Nurse</i>
LEMMA JONES.....	<i>Record Clerk</i>
ROBERTA SCHUKNECHT.....	<i>Personnel Records Clerk</i>
KATHLEEN TURNER.....	<i>Secretary</i>



McALESTER HALL, UNIVERSITY OF MISSOURI

School of Medicine Announcement

HISTORICAL: The School of Medicine of the University of Missouri was built upon the Medical Department of Kemper College ("McDowell Medical College") founded in St. Louis in 1840. This was the first medical school established west of the Mississippi river. In 1845 it became a department of the University of Missouri. As such it functioned for ten years, being discontinued in 1855. The School of Medicine was re-established on the University Campus in Columbia in December, 1872, with a curriculum of only two years, as most medical schools in the country. In 1891 the curriculum was extended to three years, and in 1899, to the full four years. In 1910 the last two years were discontinued because of inability to finance the expansion necessary for teaching the clinical subjects. From 1910 on the University has maintained only the two preclinical years of the regular medical course.

Completion of the first two years of the medical curriculum leads to the degree of Bachelor of Science in Medicine. Students who obtain this degree at the University of Missouri are accepted by the leading schools of the country for the completion of the clinical years.

ORGANIZATION AND SUPPORT: The School of Medicine of the University of Missouri is an integral part of the University, being located on the University Campus. In addition to medical work it offers courses for arts and graduate credit to students enrolled in other divisions of the University in so far as its capacity allows. The School of Medicine is supported by funds assigned to it by the University from state appropriations and by special laboratory fees of students.

POLICY: The School of Medicine always has stood for the highest standards of Medical education. It was a pioneer in introducing and developing laboratory methods. Laboratory work in anatomy, chemistry and microscopy was required from the date of re-establishment in 1872. A few years later laboratory work in pathology and physiology was added. In 1891 the laboratory of histology and bacteriology were established. The School of Medicine of the University of Missouri was one of the first schools to place these fundamental medical sciences in charge of specialists required to devote their time exclusively to teaching and investigation. A thorough course of instruction with the higher standard of scholarship has been established and maintained.

The aim of the School of Medicine is threefold:

(1) To give thorough laboratory and clinical training in all medical subjects.

- (2) To contribute to the advancement of medicine by original investigation in the various sciences upon which modern medicine is based.
- (3) To promote the diffusion of medicinal knowledge throughout the state.

BUILDINGS AND EQUIPMENT

The School of Medicine consists at the present of three buildings: McAlester Hall, where most of the preclinical teaching is centered, and the University Hospitals, comprising Parker Memorial, Noyes Hospital and Student Health Center. Parker Hospital was made possible by the gift of William L. Parker and was therefore named the Parker Memorial Hospital. In the words of the donor the hospital is "for the benefit of the School of Medicine." The surgical amphitheater and operating rooms were provided by a gift of the late Adolphus Busch. In 1924 a building connected with Parker Memorial Hospital was completed and named the Noyes Hospital after Dean Guy Lincoln Noyes. In 1937 the Student Health Center was opened. This building comprises full X-ray, metabolic and electrocardiographic equipment, student out-patient department, beds for students who are sick with contagious diseases and a ward, which under ordinary circumstances is devoted to the Orthopedic division under the State Crippled Children's Service. The normal capacity of the University Hospitals is 135 beds.

McALESTER HALL, UNIVERSITY OF MISSOURI

MEDICAL LABORATORY BUILDINGS, McALESTER HALL: This is a three-story stone and brick building, 325x48 feet, specially designed for the medical laboratories, and is well equipped to meet the needs of modern laboratory instruction and research. The following is a brief list of the various rooms and equipment in this building.

The Department of Anatomy occupies the greater part of the third floor of the medical building. For class work there are available laboratories for human dissection, topographic and applied anatomy, and microscopic anatomy, with all the necessary equipment and material for a thorough study of these subjects. A lecture room and technical preparation room, and the laboratories of the staff with adequate equipment for research are also located on this floor.

The Department of Physiology and Pharmacology occupies the following rooms: A large laboratory, with adjoining storeroom, equipped with tables, lockers and sets of apparatus for the students in physiology and pharmacology; a blood pressure room, particularly for mammalian ex-

periments; a research laboratory thoroughly equipped for advanced students in physiology and pharmacology; animal room, mechanics' shop; lecture room (in common with pathology).

On the third floor of the Medical Building the United States Bureau of Fisheries Research Laboratories occupy a suite of rooms, specially equipped for physiological and biological research on the lower animals and for problems of general physiology. The Bureau of Fisheries has provided a considerable amount of special apparatus for this research unit which draws its personnel from graduate students in the University.

The Department of Bio-chemistry has a well-equipped teaching laboratory with a capacity of 48 students, and a smaller laboratory for advanced classes, in addition to space for research, for offices, seminar and the like. The equipment is adapted for work in general physiological chemistry, blood chemistry, urine analysis and nutrition.

The Department of Pathology, Bacteriology, and Preventive Medicine has an assignment of rooms which serve as offices, technician's preparation rooms, service and diagnostic laboratories, for research, housing of equipment and supplies, and lecture room and laboratory space adequate for the number of students admitted to the School of Medicine. Modern microscopes with oil immersion lenses are owned by the Department for assignment to students and for research. A teaching laboratory provided with necessary incubator space is available, in addition to incubators and equipment used in other services and in research. An exacting and specialized service of the Department is to provide expert diagnosis to the patients of the University Hospitals and through this means the Department obtains excellent teaching material for Pathology, Bacteriology, and Serology.

In the animal house colonies of such animals as are needed for diagnostic and classroom work and research are maintained. Fresh autopsy and surgical specimens are used in conjunction with approximately 1800 prepared museum specimens in Kaiserling, for gross pathology. A student slide loan collection of 380 histologic sections, representing so far as possible, the various phases of the more common disease processes are available for microscopic pathology. Balopticon projection apparatus for slides and opaque objects, a microscope projection apparatus, lantern slides, and an extensive collection of demonstration slides for microscope projection are routinely used in class teaching and drills. Stock cultures of the common bacteria are maintained for classroom work and animal experimentation.

Facilities are provided for advanced students to carry on fundamental investigations of pathologic, bacteriologic, and immunologic problems.

MEDICAL LIBRARY: The medical library, located in the medical building, contains 13,546 volumes and the more important current journals. The principal medical works of reference are included and 148 leading medical periodicals are received regularly and placed on file. Complete sets of most of these journals are available. The main University Library also contains works of interest and value to medical sciences.

The library has a complete card catalog of all its books and periodicals. Books may be loaned to any reputable physician in the state provided he pays transportation charges on them. The out-of-town borrower should indicate the subject on which he wants information if he is unable to give the author and title of the books.

RATING

The School of Medicine of the University is a member of the Association of American Medical Colleges and is rated in the highest class by the Council on Medical Education of the American Medical Association. In equipment, courses of study, number and ability of the faculty, and requirements for admission, it complies with the standards established by the Council.

FEES AND EXPENSES

The Library, Hospital and Incidental Fee is \$30.00 for one semester. Textbooks and stationery cost from \$25 to \$50 per year.

SUPPLEMENTARY MEDICAL SCHOOL FEE

Each student registered in the School of Medicine and each student registered in other schools or colleges taking more than six hours work in the School of Medicine, shall pay a supplementary medical school fee of \$20.00 per semester in addition to the library, hospital and incidental fee and laboratory fees.

LABORATORY FEES

A fixed charge is made for the individual courses which include laboratory work, and for other courses in which material or equipment is required. This fixed charge or fee is made for materials used and depreciation of equipment as ascertained by experience in each particular laboratory and course.

Extra charges for breakage, etc., may be made in case the loss to the University is not covered by the regular charge.

The laboratory charges for each semester of the session of 1939-40 will appear in the schedule opposite the courses to which they apply. In all cases the charges given are for one semester.

The non-resident tuition fee, payable by all students who are not bona fide residents of Missouri, is \$40.00 per semester.

Candidates for admission to the School of Medicine are required to deposit with the Secretary of the University the sum of \$25.00 upon notification of acceptance. This deposit is not refundable but may be applied toward the student's fees upon matriculation in the School.

For further details respecting the above fees see the general University catalog.

Information concerning Fees and Expenses should be taken from General University Catalog.

In 1938 The Rollins Scholarship in Medicine was awarded to Gerald F. Whitlock.

STUDENT AND GRADUATE ASSISTANTS: There are a limited number of student and graduate assistantships open to medical students who have completed their first year of medical studies with superior grades. Men chosen for these positions divide their sophomore studies into two parts, assisting half time and carrying half time medical work. This requires an additional year but allows a superior student to obtain his Master of Arts degree in one of the preclinical departments and at the same time obtain some experience and elementary research. Salaries of \$400 and \$500 respectively are paid to these assistants.

REQUIREMENTS FOR ADMISSION

The requirements for entrance to the School of Medicine are the satisfactory completion of (1) a four-years' high school course or its equivalent, and (2) the first six semesters' work—90 normal credit hours—in the College of Arts and Science of the University of Missouri or the equivalent, and (3) the Medical Aptitude Test given by the Association of American Medical Colleges, usually in December of the last pre-medical year.

Pre-medical credit must include normal credit hours as follows: English, 6 hours, the satisfactory completion of the Junior English examination; German or French, 8 hours; general zoology, 8 hours, of which at least 4 hours must be laboratory work (students from the University of Missouri are required to complete Zoology 4, comparative anatomy); general physics, 8 hours, of which at least 2 hours must be laboratory work; inorganic chemistry, 8 hours of which at least 4 hours must be laboratory and organic chemistry, 5 hours, which at least 2 hours must be laboratory work; general bacteriology, 3 hours.

It should be noted that the requirement of two years of college work is the minimum requirement of the Association of American Medical Colleges. Almost all the leading Medical Colleges of the United States now require three years of college work for admission; some require the A.B. degree. Prospective medical students should make certain that they complete enough college work before admission to this school to satisfy the requirements for admission to the schools to which they may elect to transfer, after completing the two-year curriculum in medicine in this University.

While every effort will be made to aid students in transferring to the third year class at other schools, the University assumes no obligation for such transfer.

ADVANCED STANDING: Every applicant for advanced standing is required to present credentials from an accredited college, and to pass such examinations as may be required to show satisfactory completion of courses to those for which he seeks credit.

Moreover, the usual entrance requirements to the first-year class must be satisfied, and evidence as to character must be presented to the Dean of the Faculty of Medicine.

Special students will not be admitted to the school.

Classes are limited to forty students each.

Application for admission should be in the hands of the Registrar by March the first, prior to the opening of the session.

New students are not enrolled in the classes at the beginning of the winter term unless they have finished satisfactorily all the courses that have been taken by the class into which admission is requested.

THE COMBINED COURSES IN ARTS AND MEDICINE

Students may receive the degree of Bachelor of Science (B. Sc.) upon compliance with the following regulations:

1. Regular enrollment in the School of Medicine.
2. Completion of the required curriculum in residence in the School of Medicine, or its equivalent.

The combined course in Arts and Science and in Medicine is available only to students who have completed their junior year in residence in the University of Missouri. Such students must meet the requirements for admission to the School of Medicine (see page 13) and, in addition, complete the freshman, sophomore, and junior requirements of the College of Arts and Science (see General Catalog), and sufficient additional work in science so that a major and a minor will be completed by the end of the first year in Medicine. The major and minor may be chosen from the fields of chemistry, physiology, or zoology.

It is essential that students taking the combined course in Arts and Medicine have the guidance of pre-medical advisers at each enrollment period.

The degree of Bachelor of Arts will be conferred in the College of Arts and Science upon completion of combined courses in the College of Arts and the School of Medicine.

Students who have received the degree of Bachelor of Arts in the combined course just mentioned may receive the degree of Bachelor of Science upon completion of the second year curriculum in the School of Medicine.

All correspondence regarding admission should be addressed to the Registrar, University of Missouri, Columbia, Missouri.

The University reserves the right to cancel or change any course listed herein without further notice.

CURRICULUM

Hours exclusive of examination periods

First Year

	Weekly Class Hours	Total Clock Hours	Credit Hours
First Semester			
Anatomy	12	192	7
Embryology	6	96	4
Histology	4	64	2
Physiological Chemistry	11	176	6
Totals	33	528	19
Second Semester			
Anatomy	12	192	7
Histology	6	96	4
Neuro-Anatomy	6	96	4
General Physiology	9	144	5
Totals	33	528	20
First Semester			
<i>Second Year</i>			
Bacteriology	9	144	6
Materia Medica	4	64	2
Advanced General Physiology	9	144	5
General Pathology	10	160	6
Topographic and Applied Anatomy	4	64	3
Totals	36	576	22

Second Semester :

	Weekly Class Hours	Total Clock Hours	Credit Hours
Special Pathology	10	160	6
General Hygiene	2	32	2
Minor Surgery	3	48	2
Physical Diagnosis	5	80	3
Pharmacology	8	128	5
Electives	7	112	3-5
Totals	35	560	21-23

SCHEDULE OF HOURS FOR THE FIRST-YEAR CLASS

First Semester

	8-9	9-10	10-11	11-12	1-2	2-3	3-4
Monday	Anatomy				Embryology.....		
Tuesday....	Histology.....				Physiological Chemistry .		
Wednesday..	Anatomy						
Thursday...	Physiol. Chem.	Embryology			Physiological Chemistry .		
Friday.....	Anatomy						
Saturday....	Physiological Chemistry.....						

Second Semester

	8-9	9-10	10-11	11-12	1-2	2-3	3-4
Monday.....	Anatomy				Neuro-Anatomy		
Tuesday.....	Physiology.....				Histology		
Wednesday..	Anatomy						
Thursday...	Physi- ology	Histology.....					
Friday.....	Anatomy				Neuro-Anatomy		
Saturday....	Physiology.....						

SCHEDULE OF HOURS FOR THE SECOND-YEAR CLASS

First Semester

	8-9	9-10	10-11	11-12	1-2	2-3	3-4
Monday.....	Pathology				Bacteriology		
Tuesday.....	Physiology.....				Materia Medica		
Wednesday..	Pathology		Topography and App. Anatomy		Bacteriology		
Thursday...	Physiology.....				Materia Medica.....		
Friday.....	Pathology				Bacteriology		
Saturday....	Physi- ology	Topo. and App. Anatomy					

Second Semester

	8-9	9-10	10-11	11-12	1-2	2-3	3-4
Monday	Pharmacology				Pathology		
Tuesday	Pathology		Physical Diagnosis		Electives		
Wednesday	Pathol- ogy	Hygiene	Minor Surgery	Phys. Diag.			
Thursday	Pharmacology				Electives		
Friday	Pathol- ogy	Hygiene	Minor Surgery		Pathology		
Saturday	Elec- tives	Physical Diagnosis					

DEPARTMENT OF ANATOMY AND HISTOLOGY

Milton O. Overholser, Professor
 Richard L. Crouch, Associate Professor
 Lemen J. Wells, Assistant Professor
 James C. Cope, Assistant
 William E. Sullens, Assistant
 Donald Shull, Assistant

101f. **ELEMENTARY ANATOMY.** A course designed to outline a few of the fundamentals of both gross and microscopic anatomy. No actual dissection is undertaken, but dissections made by medical students are studied. (Prerequisite, five hours of general zoology.) (3) Associate Professor Crouch and Assistants.

102f. **EMBRYOLOGY.** A study of the development of the individual based upon man and the higher mammals. Open only to medical and graduate students. (4) Assistant Professor Wells and Assistants.

103f. **HISTOLOGY.** A study of the microscopic structure of the fundamental tissues of the human body. (2) Assistant Professor Wells and Assistants.

104w. **HISTOLOGY.** A continuation of course 103f. A study of the

microscopic structure of the organs of the human body. (4) Assistant Professor Wells and Assistants.

105f. HUMAN DISSECTION. A study of the gross structure of the human body, dissection progressing in the following order: Thorax, superior extremities, neck and head. (7) Professor Overholser and Assistants.

106w. HUMAN DISSECTION. A continuation of course 105f. Dissection of the abdomen, pelvis, perineum and lower extremities. (7) Professor Overholser and Assistants.

107f. TOPOGRAPHIC AND APPLIED ANATOMY. A course devoted to the practical consideration of the principal structures stressed in clinical surgery. Special dissections are made on cadavers. (105f and 106w are prerequisite.) (3) Associate Professor Crouch and Assistant.

108w. NEURO-ANATOMY. The gross and microscopic structure of the central and peripheral nervous system are studied. (4) Associate Professor Crouch and Assistants.

200f and w. SEMINAR. The presentation and discussion of original investigation and current literature. Open to students in courses numbered above 200. (1) Professor Overholser.

201f and 202w. SPECIAL STUDIES IN ANATOMY. The intensive study of regions or systems in human anatomy. This may include developmental and microscopic as well as gross anatomy. (102 to 106 are prerequisite.) (Hours to be arranged.) Professor Overholser, Associate Professor Crouch, and Assistant Professor Wells.

290f and w. RESEARCH. The facilities of the department are available to students qualified to undertake investigation in anatomy. (Hours to be arranged.) Professor Overholser, Associate Professor Crouch, and Assistant Professor Wells.

DEPARTMENT OF BIOCHEMISTRY

Addison Gulick, Professor
Lloyd E. Thomas, Instructor
Richard E. Banner, Assistant
Irby M. Bunding, Assistant

Two beginning courses, 101w for 3 hours and 106f for 6 hours are offered. The two together give 8 hours.

101w. ELEMENTARY PHYSIOLOGICAL CHEMISTRY. An outline of vertebrate physiological chemistry, with principal reference to the conditions in man; about 25 lectures and 25 laboratory periods are given. Prerequisite, organic chemistry, 3 hours. Not open for medical credit. (3) Professor Gulick and Assistants.

106f. **PHYSIOLOGICAL CHEMISTRY.** Prerequisite, organic chemistry, course 110 or equivalent. (6) Professor Gulick, Instructor Thomas and Assistants.

108w. **TOXICOLOGY.** The chemical identification of toxic substances. (2) Professor Gulick.

200f and w. **BIOCHEMISTRY SEMINAR.** Roundtable reviews of research topics and literature, led by the staff and graduate students. (1) Professor Gulick.

203f and 204w. **ADVANCED PHYSIOLOGICAL CHEMISTRY.** A course extending and supplementing Course 106f. The prosecution of a short experimental problem required. (3-4) Professor Gulick.

205f and w. **THE BLOOD.** A chemical, physiological and clinical study. Prerequisite, 106f or equivalent. (3 or 4) Instructor Thomas.

208w. **BIOCHEMICAL PREPARATIONS.** The isolation and purification of biochemically important materials. (2-4) Instructor Thomas.

210w. **BIOCHEMICAL MECHANISMS.** Lectures and literature study on the chemical mechanisms of life. Prerequisite, 106f and 205 or equivalent. (2) Professor Gulick.

215f and 216w. **BIOCHEMICAL PROBLEMS.** Assigned problems in elementary research. (2-10) Professor Gulick, Instructor Thomas.

290f and w. **RESEARCH.** Investigation of unsolved problems under the guidance of the staff. Professor Gulick and Instructor Thomas.

DEPARTMENT OF MEDICINE

Dan G. Stine, Professor

Richard S. Battersby, Assistant Professor

Maurice E. Cooper, Instructor

Charles A. Leech, Instructor

101w. **PHYSICAL DIAGNOSIS.** Lectures, demonstrations and practical exercises covering the field of the physical examination of the thorax. Practice in the use of instruments ordinarily used in auscultation and percussion especially with reference to the recognition of the physical signs of normal and disease processes in the respiratory and circulatory organic. Sixteen periods of 2 hours each, are devoted to clinics in medicine. (3) Professor Stine and Instructors Cooper and Leech.

PATHOLOGY, BACTERIOLOGY AND PREVENTIVE MEDICINE

M. Pinson Neal, Professor
Merl P. Moon, Associate Professor
Dudley A. Robnett, Associate Professor
Newell R. Ziegler, Associate Professor
James H. Peers, Assistant Professor
Mildred W. Brown, Instructor
Oliver H. Peterson, Instructor

5f and w. PREVENTIVE MEDICINE. Value of preventive medicine, methods of spread and the prevention of specific communicable diseases; elements of school and community hygiene. (2) Associate Professor Moon and Staff.

21f. ELEMENTARY PATHOLOGY. A course of 80 lecture, recitation, demonstration, and laboratory hours intended as an introduction to General Pathology, Medical Bacteriology, and Clinical Pathology, to second year students in the School of Nursing only. (3) Assistant Professor Peers, Associate Professor Ziegler, Professor Neal and Instructor Brown.

No credit is given in the medical curriculum for courses 5f or w, and 21f.

The courses below listed are constructed and offered primarily for students in the School of Medicine, but are open to others showing requisite interest and offering acceptable prerequisites.

101f. GENERAL PATHOLOGY. The course consists of 64 lecture or recitation hours and 96 laboratory hours for Sophomore students. (6) Professor Neal; Associate Professor Robnett; Assistant Professor Peers.

102w. SPECIAL PATHOLOGY. A course of 64 lecture or recitation hours and 96 laboratory hours for Sophomore students. Prerequisite, General Pathology 101f. Professor Neal; Associate Professor Robnett; Assistant Professor Peers.

In the courses 101f and 102w, General and Special Pathology, a collection of lantern slides, the projectoscope for, and with, histological slides are regularly used for class instruction and group drill. A loan collection of 380 slides is furnished to students for use in histopathology; therefore none of the laboratory hours are used for staining or mounting sections. Systematic exercises in anatomic study and diagnosis, by means of Kaiserling prepared specimens, and available fresh material of the various lesions of each organ, are a part of the regular work. General Pathology, the first part to be considered, deals with the basic factors of disease; while Special Pathology, considered later, applies the principles of General Pathology to the various organs and the tissues of the body. Throughout the courses emphasis is placed upon the relation between tissue changes,

gross and microscopic, in a given disease, and the symptoms or manifestations that accompany such changes. Students are instructed in the methods of postmortem examinations and are required to prepare complete and orderly records of all autopsies seen.

104w. **CLINICAL PATHOLOGY.** (Clinical Microscopy, Clinical Diagnosis). An elective course of 48 lecture, recitation or demonstration hours, and 64 laboratory hours, for Sophomore students. A laboratory course covering a careful study in the chemical, bacteriological, and microscopical methods used in examining blood, urine, sputum, gastric contents, spinal fluids, feces, exudates, etc., for diagnostic purposes. Prerequisites, Medical Bacteriology, Histology and Physiological Chemistry. (5) Professor Neal; Assistant Professor Peers.

107f. **MEDICAL BACTERIOLOGY.** A course for Sophomore medical students consisting of 48 lecture or recitation hours and 96 laboratory hours, covering the relation of bacteria to disease; the fundamental principles of infection, immunity, vaccine and serum therapy. Prerequisites, General Bacteriology 3f or w, and Organic Chemistry 110. (6) Associate Professor Ziegler; Associate Professor Moon; Instructor Peterson.

108w. **GENERAL HYGIENE.** A 32 hour lecture, recitation and demonstration course for Sophomore students that deals with the fundamental principles of public, community and personal hygiene. Prerequisite, 107f, or its equivalent. (2) Associate Professor Ziegler.

109f. **IMMUNITY.** An elective course of 16 lecture and 64 laboratory hours dealing with the theories of immunity; preparation of vaccines; antigen-antibody reactions; blood grouping; Wassermann reaction; diagnostic precipitin tests; anaphylaxis, and related phenomena. Prerequisite, 107f. (3) Associate Professor Ziegler.

110w. **SANITARY BACTERIOLOGY.** An elective course dealing with the bacteriology of water and sewage, standard methods of water and sewage analysis, water purification, and swimming pool sanitation. Prerequisite, General Bacteriology. (3) Associate Professor Ziegler; Instructor Peterson.

200f and w. **SEMINAR.** A presentation and critical discussion of current literature and original investigations within the fields of the Department. (1) Associate Professor Ziegler; Professor Neal.

207f and 208w. **ADVANCED PATHOLOGY.** A graduate course in which the amount and character of the work will depend upon the needs, qualifications, and interests of the student. Professor Neal; Assistant Professor Peers.

211f and 212w. **ADVANCED BACTERIOLOGY.** A graduate course designed to give more detailed information and training in the newer aspects

of bacteriology and immunity. Associate Professor Ziegler; Associate Professor Moon.

250f and w. SPECIAL INVESTIGATIONS IN BACTERIOLOGY. Problems for special study are assigned in bacteriology or immunology to qualified graduate students. Prerequisites, General Bacteriology 3f or w and Organic Chemistry 112, or Medical Bacteriology 107f. Associate Professor Ziegler; Associate Professor Moon.

291f and w. RESEARCH IN PATHOLOGY. Open only to properly qualified graduate students. A reading knowledge of German is required and one of French is recommended. Professor Neal; Assistant Professor Peers.

295f and w. RESEARCH IN BACTERIOLOGY. A strictly graduate course in which students of suitable interests and qualifications may pursue original investigation in the fields of Bacteriology and Immunology. Prerequisite, Advanced Bacteriology 211f or 212w. Associate Professor Ziegler; Associate Professor Moon.

PHYSIOLOGY AND PHARMACOLOGY

M. M. Ellis, Professor

H. L. Motley, Assistant Professor

B. A. Westfall, Assistant Professor

Ralph T. Harsh, Instructor

William See, Assistant

James Eugene Lewis, Assistant

W. S. Dye, Assistant

Carl Rau, Assistant

100w, 100f & 100s. ELEMENTS OF PHYSIOLOGY. Presenting the basic physiological principles and activities with special reference to the human body. Intended for those desiring a general knowledge of physiology, and as preparation for advanced courses. It is recommended that five hours of inorganic chemistry precede this course. (5) Assistant Professor Westfall and Assistants.

102w. GENERAL PHYSIOLOGY. The physiology of tissues, the nervous system and special sense organs. A study of the regulation and control of physiological activities. Prerequisites, 100w or five hours zoology, and five hours inorganic chemistry. (5) Professor Ellis, Assistant Professor Westfall and Assistants.

103f. ADVANCED GENERAL PHYSIOLOGY. The physiology of the circulatory, respiratory, digestive, excretory, glandular and reproductive systems. Prerequisites, 100w, 102w, or advanced standing in chemistry. (5) Professor Ellis, Assistant Professor Motley and Assistants.

111f. **MATERIA MEDICA.** A study of the origin, preparation and administration of the common official drugs and drug preparations. Prerequisite, 102w or 103f. Open only to medical students and advanced physiology majors. (2) Assistant Professor Motley, Assistant Professor Westfall and Assistants.

112w. **PHARMACOLOGY.** A study of the action of drugs on man and selected laboratory animals. Prerequisites, 100w or 102w, 103f and 111f or equivalents. (5) Assistant Professor Motley, Assistant Professor Westfall and Assistants.

200w and 201f. **SEMINAR.** Review of current literature on selected physiological and pharmacological topics. (1) Staff.

216w and 217f. **ADVANCED EXPERIMENTAL PHYSIOLOGY.** Advanced studies of respiration, circulation, internal secretions and gland action in man and experimental animals. (2-4) Professor Ellis.

220w. **CLINICAL PHYSIOLOGY.** The study of particular physiological processes as modified by clinical, surgical and experimental conditions. Credit arranged. Assistant Professor Motley.

230w, 231f & 232s. **SPECIAL STUDIES.** Individual problems in physiology and pharmacology are assigned to expand previous work or as an introduction to research. Credit arranged. Professor Ellis, Assistant Professor Motley and Assistant Professor Westfall.

290w, 291f & 292s. **RESEARCH.** Opportunities for research in physiology and pharmacology are offered. Credit arranged. Professor Ellis, Assistant Professor Motley and Assistant Professor Westfall.

DEPARTMENT OF SURGERY

Dudley S. Conley, Professor

Claude R. Bruner, Associate Professor

William J. Stewart, Associate Professor

Karl D. Dietrich, Assistant Professor

102w. **MINOR SURGERY.** The lectures on the general principles of surgery include the consideration of asepsis and antisepsis, inflammation, healing of wounds, hemorrhage and sepsis. Material for demonstration of the minor surgical lesions is obtained from the dispensary. The laboratory periods are devoted to a study of bandaging and the preparation and use of surgical dressings. Each student will have twelve lessons on the practical application of bandages, including the general principles in the use of plaster bandages, adhesive dressings, splints, etc. The preparation of dressings and instruments is studied in the hospitals. (2) Professor Conley, Associate Professors Bruner and Stewart, Assistant Professor Dietrich.

103w. MEDICAL ETHICS AND ECONOMICS. Four one-hour lectures during the second semester. Optional for second year medical students. Professor Conley.

ELECTIVES

Students in the School of Medicine who are prepared to do so may, with the consent of the Dean, elect courses offered in other Divisions of the University.

GRADUATE WORK IN MEDICAL SCIENCES

Special opportunity is given and every encouragement is offered to students who desire to do advanced work in any of the fundamental medical sciences. By a year of graduate work, the degree of Master of Arts (A.M.) may be secured, and in three years the degree of Doctor of Philosophy (Ph.D.). Advanced work of the research type in the fundamental medical sciences is highly desirable as a basis for the most thorough work in clinical medicine. It is especially advantageous, however, for those students who desire to specialize with a view to becoming teachers in any of these branches. The demand for such teachers far exceeds the supply, and offers an attractive career which many graduates of this school have followed with success. Fellowships and scholarships are available to those who are qualified for graduate work. For further details, see the University catalog or separate announcement of the Graduate School, University of Missouri.

EXTENSION SERVICE LABORATORY

The department of Pathology, Bacteriology and Preventive Medicine will, within the limit of its capacity, receive for examination and diagnosis such material as may be submitted by physicians of the state.

Tissues for pathological examination and diagnosis should be sent direct to the Laboratory of Pathology in McAlester Hall on the University campus.

Bureau of Information. The School of Medicine of the University receives a large number of standard journals and reports. The school will be glad to have inquiries from physicians on any medical matter, and the latest information available will be given, or reference will be furnished where further information may be obtained. Inquiries not strictly medical will be referred for answer to other departments of the University.

MEDICAL STUDENTS

1937-38

Freshman Class

The following students are registered in the first year of Medicine at the University of Missouri School of Medicine.

Berneil W. Andrews
Charles M. Barnett
Onel C. Branham
Roger L. Byler
Emerson M. Carpenter
Elbert H. Cason
Donald R. Childs
John L. Cockrell
George A. Crowe, Jr.
George A. Daman
Theodore F. Edwards
Samuel T. Ellis, Jr.
Herbert W. Frerking
Paul G. Hesse
William H. Hickerson
Orville B. Hull
Carl W. Hughes
Joseph E. Johnson
Nathan A. Lichtor
Chester W. Lyon
Joseph C. Manning, Jr.
William D. Moffett
Stanley E. Monroe
Chester R. Peck
H. B. Pollock, Jr.
Lyle K. Requa
Leonard H. Roach
John R. Roderick
Robert A. Ryan
Elvin P. Scott
Ira T. Smith
Gordon T. Stewart
Glenn O. Turner
James A. Turner
Manly Utterback

Harry C. Williams
Robert F. Wortmann
Houston J. Zinn

Sophomore Class

The following students are registered in the second year of Medicine at the University of Missouri School of Medicine:

Richard E. Banner
Robert C. Buckner
Judson I. Chalkley
James C. Cope
Elbert L. Dennis
Joseph N. Dills
Cornealia G. Ellis
Milton T. English
Ambrose C. Estes
Wilson J. Ferguson
Barney W. Finkel
William O. Good
Charles M. Grace
Gip R. Hudson
Charles H. Lewellen
J. Eugene Lewis, Jr.
William J. Martin
Paul C. Miltenberger
Robert A. Moore
Cedric A. Nielsen
Joseph W. Noah
Ernest M. Noblitt
Daniel W. Oungst
John W. Rose
William B. See
G. Donald Shull
W. Howard Snead
William E. Sullens
Blake S. Talbot
John M. Thompson
Lemen G. Wells
Gerald F. Whitlock

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