MINUTES OF THE UNIVERSITY FACULTY APRIL 10, 1961

The University Faculty met in the Assembly Room of Lafferty Hall Monday, April 10, at 4:00 p.m. President Dickey presided. Thirty-four members were absent.

The minutes of March 13 were approved.

Dr. J. R. Meadow, Assistant Dean of the College of Arts and Sciences presented recommendations from that college covering new courses, dropped courses, and changes in courses, which were approved by the Faculty.

COLLEGE OF ARTS AND SCIENCES

Office of the Dean

March 28, 1961

To: University Faculty

From: J. R. Meadow, Assistant Dean

The following course changes are recommended to you for your approval:

I. New Courses

Aerospace Science 401, AEROSPACE AGE EDUCATION WORKSHOP. (3) (If not approved for graduate credit, number will be 396.)
Workshop to provide the participant with a better understanding of the economic, scientific, and vocational implications of aviation and the technological advances made in the aerospace age. Prereq: Teacher's certificate or approval of Workshop Director. (For SS 1961 only)

Botany 400, FUNDAMENTALS OF BIOLOGY FOR SECONDARY SCHOOL TEACHERS. (4)
or
Zoology 400
(If not approved for graduate credit number will be 302.)
A course designed to aid the teacher in the selection of subject matter and in the presentation of modern biology to high school students. Lectures, discussions, laboratories, ten hours (600 minutes) per week. Prereq: Employment as high school teacher.

Botany 401, Laboratory for Botany 400 or Zoology 400
or
Zoology 401
(If not approved for graduate credit number will be 303.)

Botany 402, ADVANCED TOPICS IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS. (4)
or
Zoology 402
(If not approved for graduate credit number will

be 304)
A treatment of selected topics from the point of view of modern developments designed to aid the high school teacher to keep abreast of changes in theory and practice; to increase his knowledge of subject matter, and to provide better motivation for his students. Lectures, discussions, and demonstrations, eight hours (400 minutes) per week. Prereq: Employment as high school teacher and consent of instructor.

Chemistry 406, FUNDAMENTALS OF CHEMISTRY FOR HIGH SCHOOL TEACHERS. (4)
(If not approved for graduate credit number will be 306.)
A course to aid the teacher in the selection of subject matter and in the presentation of modern chemistry to high school students. Lectures, discussions, six hours. Prereq: Employment as high school teacher.

Chemistry 407, GENERAL CHEMISTRY LABORATORY. (0)
(If not approved for graduate credit number will be 307.)
Laboratory to accompany 406; six hours.

Chemistry 506, ADVANCED TOPICS IN CHEMISTRY FOR HIGH SCHOOL TEACHERS. (4)
(If not approved for graduate credit number will be 308.)
A course in selected topics and modern developments to enhance the competence of the high school teacher. Lectures and discussions, twelve hours. Prereq: Employment as high school teacher and consent of instructor.

Geology 300, GEMS AND GEM MATERIALS. (3)
Recognition, distribution, geologic occurrence, and origin of gems and gem materials. Lecture, two hours: laboratory, two hours.

History 285, HISTORY OF RUSSIA TO 1801. (3)
A broad survey of the life of the Russian people from earliest times to the start of the modern imperial period. Primary attention is given to political developments and the socio-economic patterns that evolved, as well as to the significant intellectual and cultural achievements.

History 286, HISTORY OF RUSSIA SINCE 1801. (3)
Political institutions and events are surveyed, along with the progress and problems in towns and country (serfdom, industrialization, agrarian pressures). A summary of the revolutionary movements is presented as a preface to the upheavals of 1905 and 1917 and the subsequent evolution of the Soviet system.

History 584, RUSSIAN REVOLUTIONS AND THE SOVIET SYSTEM, I. (3) (If not approved for graduate credit number will be 384.)
Study of the fundamental factors leading to the collapse of the monarchy, with emphasis upon the reforms and governmental policies, their shortcomings, and the pressures of discontent that generated revolutionary movements. Prereq:

History 104 and 105 or 285 and 286.

History 587, RUSSIAN REVOLUTIONS AND THE SOVIET SYSTEM, II. (3) (If not approved for graduate credit number will be 387.)
A continuation of 584, this course examines the ideological bases and raison d'etre of the Soviet State, before undertaking analyses of those conditions and policies which have molded the totalitarian system during the past four decades. Prereq: History 104 and 105 or 285 and 286.

History 589, HISTORY OF RUSSIAN SOCIAL AND POLITICAL THOUGHT, 1789-1914. (3) (If not approved for graduate credit number will be 389.)
A study of the significant trends and concepts which evolved among the Russian intelligentsia is undertaken, with particular attention given to those ideas and doctrines which gave direction to revolutionary movements in Russia. Prereq: History 487 and 584.

History 591, POLITICAL AND DIPLOMATIC HISTORY OF EAST CENTRAL EUROPE FROM THE FRENCH REVOLUTION TO THE END OF WORLD WAR I. (3) (If not approved for graduate credit number will be 391.)
A survey of the major factors and events which conditioned the political life and identity of the predominantly Slavis peoples inhabiting the region from Poland south to the Balkans, excluding the Eastern Slavs. Prereq: History 104 and 105 or consent of instructor.

History 594, POLITICAL AND DIPLOMATIC HISTORY OF EAST CENTRAL EUROPE SINCE WORLD WAR I. (3) (If not approved for graduate credit number will be 394.)
A comparative study is made of the political institutions and policies of these states located in the north-south corridor stretching from the Baltic to the Aegean-Adriatic seas, their intra-regional relations and roles in European diplomacy. Prereq: History 104 and 105 or consent of instructor.

Physics 301, PRINCIPLES OF MECHANICS AND ELECTROSTATICS. (4)
A lecture and laboratory course designed to present the principles of mechanics and electrostatics in such a manner as to take advantage of the comparison between gravitational and electric systems. Lectures and recitations, five hours; lab, four hours. Prereq: Employment as a high school teacher. (Note: The hours indicated above are summer, 60-minute hours.)

Physics 302, Laboratory for Physics 301.

Physics 401, STRUCTURE OF PHYSICAL SYSTEMS. (3) (If not approved for graduate credit number will be 303.)
A lecture and problem course introducing the mechanical and electromagnetic principles upon which the analyses of many physical systems rest, and specific discussions of the properties of the following: the atom, crystal structure, the atomic nucleus, and nucleons. Lectures, five hours. Prereq: Employment as a high school science teacher. (Note: The hours indicated above are summer, 60-minute hours.)

Radio 327, TELEVISION PRODUCTION. (3)
Eight weeks of concentrated instruction through supervised

laboratory participation in every phase of commercial TV production. Offered only during the summer term following junior year for selected students. Prereq: Radio 515, 520, and consent of instructor and department head.

Sociology 502, LABORATORY IN METHODS OF DEMOGRAPHIC ANALYSIS. (1) (If not approved for graduate credit number will be 302.) Application of statistical techniques employed in the analysis of census and vital statistics data, including methods of population standardization, life table construction, and preparation of population estimates. Three hours weekly. Prereq: An introductory statistics course and Sociology 501 (may be taken concurrently.)

Sociology 582, MEASUREMENT OF ATTITUDES AND PUBLIC OPINION. (3) (If not approved for graduate credit, number will be 382.) Attention is focused upon measurement procedures in the study of public opinion and attitudes. Study of contemporary research problems included. Prereq: One of the following: Introductory Statistics, Sociology 548, or Sociology 581.

II. Transfer

Anatomy and Physiology 520, PHYSIOLOGY OF EXERCISE
to
Physical Education 520, PHYSIOLOGY OF EXERCISE

III. Change in Number

Philosophy 280, TUTORIAL WORK IN PHILOSOPHY, 1 credit, may be repeated for a total of 3 credits
to
Philosophy 380, 381, 382, TUTORIAL WORK IN PHILOSOPHY, 1 credit each. Weekly conferences with major students in preparation for the comprehensive examination. Required of all majors in philosophy. Prereq: Major in philosophy.

IV. Change in Credits

Modern Foriegn Languages 395, INDEPENDENT WORK IN FRENCH, from may be repeated for a total of 12 credits
to
may be repeated for a total of 6 credits.

Sociology 395, INDEPENDENT WORK, from 1 credit, may be repeated for a total of 4 credits
to
1-3 credits, may be repeated for a total of 4 credits.

V. Change in course number and credits

Modern Foreign Languages 521, INDEPENDENT WORK IN GERMAN, may be repeated for a total of 12 credits
to

Modern Foreign Languages 396, INDEPENDENT WORK IN GERMAN, may be repeated for a total of 6 credits.

Modern Foreign Languages 552, INDEPENDENT WORK IN SPANISH, may be repeated for a total of 12 credits.
to
Modern Foreign Languages 397, INDEPENDENT WORK IN SPANISH,may be repeated for a total of 6 credits.

VI. Change in Title

Sociology 536 from SOCIAL PATHOLOGY TO SOCIOLOGY OF DEVIANT BEHAVIOR.

VII. Drop

Anatomy and Physiology 316, SEMINAR
History 585, HISTORY OF RUSSIA TO 1905
History 586, HISTORY OF RUSSIA SINCE 1905
Physics 520, X-RAY TECHNIQUE

DR. R. D. Johnson, Chairman of the Rules Committee, presented a recommendation for approval of a request from the College of Pharmacy to modify the rules covering probation and dropping for poor scholarship as they affect that college. The University Faculty approved the changes.

UNIVERSITY OF KENTUCKY
College of Pharmacy
March 25, 1961

TO University Faculty:

The Faculty of the College of Pharmacy recommends the adoption of the following rules on Academic Probation in the College of Pharmacy effective September 1961.

PROFESSIONAL COLLEGES

Pharmacy:

Definition: Pharmacy Standing is the overall grade point average for all professional and non-professional work accomplished subsequent to admission to the Professional Curriculum.

1. Any student who fails to achieve a pharmacy standing of 2.0 at the end of any semester shall be dropped from the University or placed on Academic probation.

2. Any student who fails to achieve a pharmacy standing of 1.5 at the end of any semester shall have his record reviewed by the College of Pharmacy faculty and may be dropped from the University without a preliminary probationary semester.

3. Any student who, at the end of his first probationary semester, fails to have achieved a semester standing of 2.0 at the end of this semester shall be dropped from the University.

4. Any student who, at the end of his first probationary semester, achieves a 2.0 standing for that semester but fails to bring his pharmacy standing up to 2.0 will be continued on probation or be dropped from the University.

5. Any student who, at the end of his second consecutive probationary semester, fails to have achieved a 2.0 pharmacy standing shall be dropped from the University.

6. A student who has been dropped for academic deficiency may be readmitted on probation according to University regulations except that his academic requirements will be those outlined in items 3,4, and 5 above.

7. Any student who, regardless of pharmacy standing, fails to have achieved a 2.0 standing for 2 consecutive semesters may be placed on probation.

Requirement for Graduation
A candidate for the B.S. in Pharmacy will not be approved by the Faculty of the College of Pharmacy unless the candidate has achieved a pharmacy standing of 2.0.

Dean Willard presented for the College of Medicine recommendations pertaining to courses in the Department of Physiology, to be effective with the Summer Session 1961 and subject to approval of the Graduate Council with respect to courses which carry graduate credit. The University Faculty approved the recommendations.

The Faculty of the College of Medicine makes the following recommendations to the University Faculty pertaining to course offerings in the Department of Physiology, to be effective beginning with the Summer Semester 1961, and subject to approval of the Graduate Council with respect to courses which carry graduate credit.

1. Courses to be listed as Physiology courses transferred with minor changes from the College of Arts and Sciences to the College of Medicine as a result of the transfer of the Department of Anatomy and Physiology.

Physiology 206	Elementary Physiology
Physiology 207	Elementary Physiology
Physiology 504	Independent Work in Physiology
Physiology 507	Introduction to Endocrinology
Physiology 508	Comparative Neurophysiology
Physiology 509	Comparative Neurophysiology, Lab.
Physiology 512	Cellular Physiology
Physiology 513	Cellular Physiology, Lab.
Physiology 602	Physiology Techniques
Physiology 604	Experimental Endocrinology
Physiology 605	Experimental Endocrinology, Lab.
Physiology 606	Advanced Neurophysiology
Physiology 607	Advanced Neurophysiology, Lab.
Physiology 791	Research in Physiology
Physiology 505	Architecture of Human Skeleton
Physiology 506	Architecture of Human Skeleton
Physiology 774	Graduate Seminar in Physiology

New course to be added which is a recombination of Physiology 210 and 608, 609 (former course numbers.)

Physiology 502	Principles of Physiology	5 credits
Physiology 503	Physiology Laboratory	

2. Courses to be dropped:

Physiology 210	General Physiology (combined as Physiology 502, 503)
Physiology 211	General Physiology, Lab. (combined as Physiology 502, 503)
Physiology 608	Principles of Physiology (combined as Physiology 502, 503)
Physiology 609	Principles of Physiology, Lab. (combined as Physiology 502, 503)
Physiology 510	Circ., Respir., and Metab.
Physiology 511	Circ., Respir., and Metab., Lab.
Physiology 514	Intermediate Metabolism
Physiology 515	Intermediate Metabolism, Lab.
Physiology 316	Seminar in A and P
Physiology 520	Physiology of Exercise

3. Courses which are part of the College of Medicine Curriculum:

Physiology 511	Medical Physiology	7 credits
Conjoint 416	Nervous System	5 credits

4. Course to be retained for teaching at University Centers only:

Physiology 102	Introduction to Physiology (requirements covered by 206, 207 for Lexington campus)

Dean Willard also presented recommendations from the College of Medicine relative to assignment of course numbers and minor changes in the First Year Curriculum, which were approved by the Faculty.

1. When the first year curriculum for the College of Medicine was submitted to and approved by the University Faculty on January 11, 1960, no attempt was made to assign numbers to units since the course numbering system for the University was, at that time, undergoing study and revision.

The College of Medicine at this time requests approval of the University Faculty for the following course designations and numbers (subject to a Graduate Council approval for courses which carry graduate credit) together with three minor changes in the distribution of credits.

Anatomy 511	Introduction to Anatomy	4 credits
Anatomy 512	Microscopy and Ultrastructure	3 credits
Anatomy 513	Developmental Anatomy	2 credits
Behavioral Science 411	Health and Society	2 credits
Biochemistry 511	Biochemistry	7 credits

Conjoint 112	Human Growth and Development	4 credits
Conjoint 114	Introduction to Clinical Medicine	2 credits
Conjoint 416	The Nervous System	5 credits
Conjoint 118	Conjoint Sciences and Systems	3 credits
Conjoint 119	Medical Genetics	1 credit
Physiology 511	Medical Physiology	7 credits

All of the course units listed above were described in detail in the memorandum submitted to the University Faculty on December 31, 1959, and these descriptions appear in the minutes of the University Faculty for January 11, 1960. Approval of the following changes is requested:

2. In the memorandum approved on January 11, 1960, the Introduction to Anatomy and Microscopy and Ultrastructure units appeared as one course unit with seven credits. We are now requesting the designation of separate units with four credits for the Introduction to Anatomy and three credits for Microscopy and Ultrastructure.

3. In the memo approved on January 11, 1960, the course for Conjoint Sciences and Systems (including Genetics)was allotted 142 scheduled hours and five credits while the course unit on the Nervous System was allotted 132 scheduled hours and four credits. The College of Medicine Committee on Educational Policy and Curriculum has since recommended that 20 scheduled hours and one credit be shifted from the Conjoint Sciences and Systems course to the Nervous System course and that the 20 hours listed for Genetics be designated as a separate one credit course.

We respectfully request approval of the University Faculty for the course designations, course numbers, and credits listed above.

Dean Willard presented recommendations from his College of the proposed Second Year Curriculum. Dr. Weaver, of the Department of Microbiology raised a point of order. The proposal had not been circularized to the Faculty ten days before the meeting as required by the Rules of the University Faculty and there had not been sufficient time to take up departmental objections to the proposals. He called attention to two courses, Conjoint 221 and 222 which his department believed should be studied by a special committee as provided in the Faculty Rules, and a report made at the next regular meeting of the University Faculty. Upon motion and second, the University Faculty voted to postpone action on the recommended curriculum until the next meeting and to ask the President to appoint a special committee to make a study and report. President Dickey stated that the members of the special committee would be announced in the next few days.

Dr. Dawson, Acting Dean of the Graduate School, presented a proposal for a graduate program in Physiology which was recommended by the Graduate Council. The recommendation was approved by the University Faculty:

PROPOSAL FOR A GRADUATE PROGRAM IN PHYSIOLOGY

I. NEED FOR THE PROGRAM

In this country and throughout the world, scientists - not scientific opportunities - are in short supply. This is reason for universities to emphasize and expand programs of training without sacrificing quality. Physiology is a biological discipline concerned with function. It is in fact dynamic biology. There is a continued need for physiologists in university programs, national defense and civil service biomedical laboratories, and in industry.

A graduate program is a key part of the objectives of a physiology department of a university campus serving the College of Medicine, the College of Dentistry, the College of Nursing, the College of Arts and Sciences and the College of Agriculture. Minor programs in physiology will be especially valuable for the Department of Zoology, Department of Psychology and in the College of Agriculture.

The predecessor of the Department of Physiology, Anatomy and Physiology of the College of Arts and Sciences, has trained many students at the M.S. level and a good share of these have gone on to earn their Ph.D. at other universities. The Anatomy and Physiology Department in Arts and Sciences for many years collaborated with the Departments of Psychology, Chemistry and Animal Husbandry; the College of Education; and more recently with the Biological Sciences in their respective doctoral programs. With the increase in enrollment and the added emphasis in biological science, a doctoral program in physiology is necessary in addition to continuing the collaboration with other biological sciences.

II. The Program

The increase in knowledge in the field of physiology as well as the change in the nature and complexity of instrumentation necessary for experimentation and analysis of experimental data have lengthened doctoral programs in physiology or necessitated a restriction in the scope of the program. The program proposed here will meet these problems in three stages: (1) Requirement of adequate physical, chemical, and biological background before admission to the program or a reasonable plan to make up deficiencies that exist. In general, one year of physics, three years of chemistry and one year of biological science will be required. (2) A basic program covering one to two years to allow instruction in basic mammalian and cellular physiology and the correlated instrumentation including project type laboratory work. (3) Special training and research including a thesis in the areas of physiology in which the department has competence.

The course work and suggested curricula in the Department of Physiology available to the student is listed in enclosure 1.

The faculty of the department and a resume of their experience is given in enclosure 2.

Areas of special competence are given in enclosure 3.

Additional work and minor programs may involve course work in Zoology, Physics, Chemistry and Biochemistry, Psychology, Microbiology, and certain courses in Engineering and Agriculture.

Principles of Instruction

Selection of Students. Students will be selected who have completed a Bachelor of Science degree in Zoology, Chemistry, Physics, Psychology or Engineering or a M.S. degree in a biological science. Each student will be interviewed by the physiology staff to determine his qualification and requirements.

Principle of Instruction. A basic year or two of physiology instruction with lecture, laboratory, discussions and topical essays will include the principles and literature of physiology as well as the basic physics, electronics and mathematics necessary for physiology and physiological techniques. During these years, supporting work in other departments will be emphasized. This instruction will be followed by special research in the areas of competence of the department under faculty supervision.

The Basic Years. In the basic years the students will be assigned to a specially designed laboratory where they will study, carry on experiments and hold discussions. A group of four students will work in each laboratory. Students of varying background will be grouped so that they may benefit from each others experience and complement each others efforts. A comprehensive examination will be given after this period to determine if he proceeds to the special research years.

Special Research Years. During these years the student will work in one of the special research areas of the department under the guidance of a selected faculty member and appropriate committees. He will be eligible for predoctoral fellowships from various agencies. It is anticipated that the student will accomplish such additional coursework as is necessary to adequately prepare himself in the field as well as study in detail and depth the literature of the particular area of physiology. His research will culminate in his thesis which will be defended in examination.

Master of Science Program. The candidate may qualify for a M.S. degree according to Plan A of the graduate bulletin.

Doctor of Philosophy Program. This program will involve extensive research experience plus qualification in a minor field.

Facilities. Laboratory facilities include one special graduate laboratory for cellular and advanced physiology

(24' x 50'); seven large research labs for special research and an animal surgery, animal room and electronics shop. Other laboratories in the building can be scheduled. See enclosure 3.

Adequate library facilities are available. Graduate students will use the medical center library which currently has 50,000 volumes, acquired by transfer from biological sciences and acquisition, and subscribes to 1,200 journals. In addition the biological sciences library, chemistry, physics and engineering library will be used.

Enclosure 1

GRADUATE PROGRAM IN PHYSIOLOGY

REQUIRED COURSES IN DOCTORAL PROGRAM

Physiology 502, 503	Principles of Physiology
Physiology 507	Endocrinology
Physiology 508, 509	Comparative Neurophysiology
Physiology 512, 513	Cellular Physiology
Physiology 602	Physiological Techniques (May be repeated for a total of 8 credits)
Physiology 604	Experimental Endocrinology
Physiology 606, 607	Advanced Neurophysiology
Physiology 768	For M.S. Thesis
Physiology 769	For Ph. D. Thesis
Physiology 774	Physiology Seminar (May be repeated for a total of 8 credits)
Physiology 791	Research in Physiology (May be repeated each semester)
Med. Sci. Conj. 411	Nervous System

Also Required

Chemistry 440, 441; 442, 443	Physical Chemistry
Math 521 or Psychology 336	Statistics Course
Chemistry 550, 551; 552, 553	Physiological Chemistry

Minor programs are possible in Chemistry, Zoology, Botany Microbiology and Psychology.

It is hoped that a minor area in physics can be developed.

Sample Program for Master's Degree

Physiology 502, 503	Physiology 507
Chemistry 550, 551	Physiology 602
Electives (600)	Physiology 606, 607
	Physiology 791

Enclosure 2

RESUME OF FACULTY OF THE

DEPARTMENT OF PHYSIOLOGY

CARLSON, LOREN D. Professor and Chairman of the Department

B.S. St. Ambrose College, 1937
Ph.D. University of Iowa, 1941

Positions Held

1941-42 University of Iowa, Research Associate, Physiology
1942 Aeromedical Lab., Wright Field, Ohio; 1st Lt. SnC.,

Physiology Branch
1943 Aeromedical Lab., Wright Field; Capt., A.C., Oxygen Branch Chief
1943-46 Aeromedical Lab., Wright Field; Major, A.C., Oxygen Branch Chief
1945 University of Washington; Instructor, Zoology
1946-49 University of Washington School of Medicine, Assistant Professor, Physiology
1948-49 University of Washington School of Medicine; Assistant Dean
1949-55 University of Washington School of Medicine; Associate Professor, Physiology
1949-51 University of Washington; Director of General Education
1953-54 University of Washington School of Medicine; Acting Assistant Dean
1955-60 University of Washington School of Medicine, Professor, Physiology
1960- University of Kentucky College of Medicine, Professor and Chairman, Department of Physiology

Societies and Honors	Listed In
Sigma Xi	American Men of Science
A.A.A.S. (fellow)	Who's Who in America (Suppl.
American Physiological Society	Who's Who in Pacific Northwest
American Society of Zoologists	
Society for Experimental Biology and Medicine	
University of Washington Research Society	
Aerospace Medical Association	
Association of American Medical Colleges (Member)	
International Society for the Study of Bioclimatology	

Number of Publications Fifty

ALLEN, RICHARD S. Professor, Department of Physiology

B.S. University of Rochester, 1922
M.S. University of Rochester, 1925
Graduate Work, University of Chicago, 1926, 27, 36, 37.

Positions Held
1922-23 University of Rochester, Research Associate
1923 Wilson Research Laboratories, Chicago, Physiological Chemist
1924 Research Division of Western Electric Company, Chicago Physical Chemist
1923-25 University of Rochester, Graduate Assistant
1925-26 University of Tennessee, College of Medicine Instructor
1926-27 University of Chicago, Fellow
1927-29 University of Kentucky, Assistant Professor
1929-36 University of Kentucky, Associate Professor
1931-60 University of Kentucky, Head of Department of Anatomy and Physiology
1936-60 University of Kentucky, Professor, Department of Anatomy and Physiology
1960- University of Kentucky, Professor, College of Medicine, Department of Physiology

Societies and Honors
American Association for the Advancement of Science
The Association of American Medical Colleges
Research Club University of Kentucky
Sigma Xi
Tennessee Academy of Science
Several grants from the Faculty Research Fund

Listed In
Who's Who in America
Who's Who in the South and South West
Who Knows and What
American Men of Science

Number of Publications Fifteen

ARCHDEACON, JAMES W. Professor, Department of Physiology

A.B. University of Kentucky, 1933
M.S. University of Kentucky, 1940
Ph.D. University of Rochester, 1943

Positions Held
1937-39 Science High School, Teacher
1939-40 University of Kentucky, Graduate Assistant, Anatomy and Physiology
1943-46 U.S. Air Force, Aviation Physiologist
1946-47 University of Kentucky, Assistant Professor, Anatomy and Physiology
1947-56 University of Kentucky, Associate Professor, Anatomy and Physiology
1951 Oak Ridge Institute of Nuclear Studies, Medical Institute Research Fellow
1956-60 University of Kentucky, Professor, Anatomy and Physiology
1960- University of Kentucky, Professor, Physiology

Societies and Honors
American Association for the Advancement of Science
American Physiological Society
Kentucky Academy of Science
Sigma Xi

Listed In
Leaders in Science
American Men of Science

Number of Publications Fifteen

BOYARSKY, LOUIS L. Professor, Department of Physiology

B.S. City College of New York, 1941
M.S. Purdue University, 1945
Ph.D. University of Chicago, 1948

Positions Held
1941-43 U.S. Air Force, Radio Engineer

1949-50 Institute for Juvenile Research, Psychophysiologist
1950-52 University of Kentucky, Assistant Professor, Anatomy and Physiology
1952-58 University of Kentucky, Associate Professor, Anatomy and Physiology
1959- University of Kentucky, Professor, Anatomy and Physiology, College of Arts and Sciences
1960- University of Kentucky, Professor, Physiology, College of Medicine

Societies and Honors
Phi Beta Kappa
Sigma Xi
American Physiological Society
Biophysics Society
American Academy of Neurology
U.K. Alumni Research Award, 1959
Fulbright Fellow, Univ. of Milan, 1958

Listed In
American Men of Science

Number of Publications Nineteen

GALVIN, ROBERT D. Instructor, Department of Physiology

B.S. University of Kentucky, 1948
M.S. University of Kentucky, 1950
Ph.D. University of Illinois, 1960

Positions Held
1951-52 Army Medical Research Laboratory, Ft. Knox, Ky. Biological Science Research Assistant, Physiology
1952-55 Army Medical Research Laboratory, Ft. Knox, Ky. Physiologist
1960- University of Kentucky, Instructor, Physiology College of Medicine

Societies and Honors
Sigma Xi

Number of Publications Three

MEGIRIAN, DAVID Assistant Professor, Department of Physiology

B.A. Amherst College, 1949, Chemistry
M.S. University of Rochester, 1951, Pharmacology
Ph.D. University of Rochester, 1954, Pharmacology

Positions Held
1953-55 Exchange Fellow, Faculty of Medicine, University of Lausanne, Switzerland
1954-55 Sandoz Fellow, Faculty of Medicine, University of Lausanne, Switzerland
1955-58 Research Associate, Institute of Physiology, University of Geneva, Switzerland
1958-60 Special Fellow of the National Institute of Neurological Diseases and Blindness to the Department of Physiology and Biophysics

University of Washington School of Medicine
and National Institute of Neurological Diseases
and Blindness.

Societies and Honors
Sigma Xi, Associate Member at Large
Swiss Society of Physiology, Physiological Chemistry and Pharmacology, Associate Member
L'Association des Physiologistes de Langue française (pending)

Number of Publications Nine

PRATT, JUDITH DUNLAP Assistant Professor, Department of Physiology

B.S. University of New Hampshire, 1944
M.S. University of New Hampshire, 1951
Ph.D. Duke University, 1958

Positions Held
1943-45 Lawrence and Memorial Assoc. Hosp. Asst. Science Instructor, New London, Conn.
1945-46 U.S.N.R., Ensign, Navy Nurse Corps
1947-49 Waltham Hospital (Mass.), Science Instructor
1954-58 Goucher College, Instructor, Department of Physiology
1958-60 Berea College, Assistant Professor of Biology
1960- Assistant Professor, Department of Physiology
Assistant Professor and Coordinator of Physical and Biological Science, College of Nursing

Societies and Honors
Sigma Xi
Kentucky Academy of Science

Listed In
American Men of Science

Number of Publications One

WILSON, MICHAEL F. Assistant Professor, Department of Physiology

A.B. West Virginia University, 1949
M.D. University of Pennsylvania School of Medicine, 1953

Positions Held
1953-54 Presbyterian Hospital of Philadelphia; Intern
1954-55 Presbyterian Hospital of Philadelphia; Resident, Medicine
1955-57 Temple University School of Medicine; Resident, Medicine
1957-58 Temple University School of Medicine; Fellowship Cardiology
1958-60 University of Washington School of Medicine; Research Fellowship, Physiology and Biophysics
1960- University of Kentucky College of Medicine, Assistant Professor, Physiology

Societies and Honors
Alpha Epsilon Delta
I.S. Ravdin Letter in Surgery
House of Delegates, Undergraduate Medical Association

Number of Publications Four

Enclosure 3

AREAS OF SPECIAL COMPETENCE

(1) Neurophysiology

Staff - Boyarsky, Allen, Megirian

Facility - Three laboratories with 720 sq. ft. of floor space. Standard neurophysiological equipment for evoked potential recording.

(2) Cardiovascular Physiology

Staff - Wilson, Archdeacon, Carlson

Facility - Two laboratories with 656 sq. ft. of floor space. Eight channel Sanborn 350 series with sensors and neurophysiological equipment for study of neural control of circulatory system.

(3) Energy Exchange and Control Systems

Staff - Carlson, Galvin, Archdeacon, Allen

Facility - Two laboratories with 912 sq. ft. floor space and two controlled temperature rooms with related facilities with 240 sq. ft. floor space. A human calorimeter ergometers and necessary equipment for recording temperatures, respiratory gas flows and gas analysis.

(4) Cellular and General Physiology

Staff - Boyarsky, Pratt

Facility - Graduate laboratory with 1200 sq. ft. and basic equipment for study of cellular phenomena.

Dean Dawson also presented recommendations from the Graduate Council for approval of graduate credit for certain courses offered by the College of Medicine in Anatomy, Behavioral Science, Biochemistry, Conjoint, Pathology, and Physiology; also two courses in Diplomacy, all of which were approved by the Faculty.

1. The Graduate Council recommends approval of graduate credit for the following courses:

1. Diplomacy 524 - Exporting and Importing Techniques (3)
   A study of the methods and procedures involved in the import and export of goods. Prerequisite: Economics 527

2. Anatomy 511 - Introduction to Anatomy (4)
   The principles of organization of the human body are presented. Several methods of studying Anatomy are utilized. Gross anatomy lectures follow a systemic development. Other methods include radiology, palpation of living structures, in vivo microscopy, the demonstration of prosected fresh and fixed materials and dissection. Prerequisites: Some background in Biology, including one or more such courses as Biology, Zoology, Botany, Comparative Anatomy or Embryology, and consent of the instructor.

3. Anatomy 512 - Microscopy and Ultrastructure (3)
   The organization of cells, tissues and organs are presented through lectures and in the laboratory, through the microscopic study of in vivo materials, histological sections and illustrations. Prerequisites: Some background in Biology, including one or more such courses as Biology, Zoology, Botany, Histological techniques, Comparative Anatomy or Embryology, and consent of the instructor.

4. Anatomy 513 - Developmental Anatomy (2)
   The development of the human body is presented through lectures, visual aids including motion pictures, histological sections and laboratory demonstrations and exercises. A majority of the time is spent on intra-uterine development; however, postnatal growth and common morphological changes associated with aging are also taken up. Prerequisites: Some background in Biology, including one or more such courses as Biology, Zoology, Botany, Comparative Anatomy or Embryology, and consent of the instructor.

5. Behavioral Science 421 - Biological Statistics (2)
   An introduction to probability, sampling, confidence interval estimates, testing hypotheses, linear regression, design and analysis of simple experiments, data processing. Prerequisite: College Algebra

6. Behavioral Science 411 - Health and Society (2)
   This course is designed to provide medical students and graduate students in health related fields with selected concepts and principles from the behavioral sciences within the context of a holistic theory of behavior; to facilitate recognition of the pertinence of psychological, social and cultural variables in the understanding of human behavior in health and disease; to illustrate the application of behavioral science concepts and findings to a further understanding of the etiology, course and management of health problems; to provide an understanding of variations in human response to illness, of the organization of medicine as a major system of behavior and of interpersonal relationships and social structure within medicine. Prerequisite: For Medical and Graduate Students Only.

7. Biochemistry 511 - Biochemistry (7)
   A selective summary of available information on cellular activities at the molecular level. Particular emphasis will

be given to the processes by which metabolites are converted into compounds essential to the maintenance or growth of the cell or are oxidized to yield energy in a form which is useful to the cell. Discussions of respiration, nutrition and of the processes by which a constant extracellular environment is maintained are also included. Prerequisites: Chem. 1b or 4b, 25a, 30b. Chem. 140b is also highly desirable. Zoology 1. Permission of department chairman.

8. Conjoint 416 - The Nervous System (5)
The gross and microscopic structure of the central and peripheral nervous systems and their blood supply will be studied. The neurophysiologic, neuropharmacologic and psychobiologic aspects of these systems will also be presented. The functional interpretation of the anatomy of the nervous system is essential as a basis for understanding clinical neurology and normal and abnormal behavior. Prerequisites: Anatomy 511, 512, 513, Behavioral Science 411, Biochemistry 511, Physiology 511, Conjoint 412 (Growth and Development) or consent of the Course Chairman.

9. Pathology 421 - Fundamental Human Pathology (4)
This course will provide a general survey of the various types of reactions to injury; regeneration, repair, the granulomata and the fundamentals of neoplasia. The emphasis will be upon the pathogenesis, mechanisms, and natural history of disease processes with particular stress on the interrelationships of structural and metabolic abnormalities. Prerequisites: For medical students, completion of first year curriculum. For graduate students, Anatomy 511, 512, 513, Physiology 511, Biochemistry 511 or equivalents and permission of departmental chairman.

10. Pathology 422 - Systematic Human Pathology (7)
The study of disease of each organ system. Prerequisites: For medical students, completion of first year curriculum and Pathology 421. For graduate students, Anatomy 511, 512, 513, Physiology 511, Biochemistry 511 or equivalents. Permission of department chairman.

11. Pathology 423 - Case Studies in Disease (2)
This course will provide discussions of illustrative cases of selected diseases. It will be concurrent with and will follow the topics of Pathology 421 and Pathology 422. Prerequisites: For medical Students, completion of first year curriculum. For graduate students, Anatomy 511, 512, 513, Physiology 511, Biochemistry 511 or equivalents and permission of departmental chairman.

12. Physiology 511 - Medical Physiology (7)
The instruction in physiology will provide advanced work in mammalian physiology approached from a biophysical point of view. Lectures and small group discussions will include consideration of cellular function, excitable tissues, volume conductors, contractile tissues, circulation, respiration, gastrointestinal tract, energy exchange, kidney and mid brain control systems. Laboratory experience will also include electrophysiological techniques and mammalian surgical techniques with emphasis on experimental design and biometrics. Prerequisite: Admission to medical school or permission.

II. The Graduate Council recommends approval of the following strictly graduate course:

1. Diplomacy 603 - Balances of Payments: Construction and Analysis (3)
This course studies the balances of payments as tools used in the analysis of international economics; the measurement of its trends and patterns; the significance of the balance of payments for both the domestic and international economics; the balance of payments and economic planning and control. The several methods of construction of balances of payment, the several types of balances of payments, methods of empirical analysis of balance of payments patterns, trends, deficits and surpluses, methods of the theoretical analysis of balances of payments will be studied. Prerequisites: Econ. 527; Diplomacy 520 and 521; or permission of instructor.

Dr. William F. Wagner presented for the Honors Program Committee recommendations for approval of two freshman and two sophomore colloquiums for honor students. These were approved by the Faculty.

HONORS 101 FRESHMAN COLLOQUIUM (0) I
One 2-hour meeting weekly for oral and written reports and discussion based on designated reading. Prereq. open only to Honors Scholars.

HONORS 102 FRESHMAN COLLOQUIUM (0) II
One 2-hour meeting weekly for oral and written reports and discussion based on designated reading. Prereq: open only to Honors Scholars.

HONORS 201 SOPHOMORE COLLOQUIUM (0) I
One 2-hour meeting weekly for oral and written reports and discussion based on designated reading. Prereq: open only to Honors Scholars.

HONORS 202 SOPHOMORE COLLOQUIUM (0) II
One 2-hour meeting weekly for oral and written reports and discussion based on designated reading. Prereq: Open only to Honors Scholars.

The courses will be listed separately from any department or college, perhaps at the back of the schedule of classes and the general catalog.

The Faculty also received a report from the Honors Program Committee on the progress of the Honors Program since its inauguration last September.

In September the first group of freshmen Honors Scholars - 37 in number - enrolled in the University. These students meet together in a special section of advanced English Composition and in a weekly two hour non-credit Colloquium. Those taking Chemistry are together in a special laboratory section. In the rest of their courses they are in classes with regular students in the University. Thus they have an opportunity to meet together and become especially acquainted one with another and still mix with many other students in the University.

Discussions in the Colloquium are centered about readings in several books - Plato's "Timaeus", Kuhn's "Copernican Revolution", Lucretius' "De Rerum Naturum", Milton's "Paradise Lost", and de Chardin's "The Phenomenon of Man". In most of the Colloquium meetings, Professor Evans, who is in charge, leads the discussions for about 45 minutes. Questions and statements of disagreement are invited at all times. Most of the time students accept this invitation. The discussion is then turned over to the students to a greater or lesser extent. Often students are asked to prepare and present summaries of parts of the readings or their impressions of the readings. Sometimes outside visitors are invited to participate. Frequently the group is divided in two sections for more intimate and more informal discussions. All visitors to the Colloquium have said that they were impressed with the lively participation by most of the students.

Honors students have access to library stacks and to a small reading room in the library.

The students have a committee of their own to serve in an advisory capacity to the Honors Program Director. As yet this Committee has not found effective ways of really molding the pattern of the Honors Program; it may in time become more effective.

Honors scholars are being invited in small groups to the home of the Honors Program Director and to homes of some members of the Honors Program Committee. They meet on campus occasionally for lunch with members of the faculty.

The grade point average for the group at the end of the first semester was 3.26, substantially above the University average, but below the desired 3.5. The grade point average ranged from 4.0 to 1.9. Thirteen students scored between 3.5 and 4; thirteen scored between 3.0 and 3.5; six scored between 2.5 and 3; two scored between 2.0 and 2.5; and one scored below 2.0.

In general we, the members of the Honors Program Committee, believe that a reasonable start has been made.

We are satisfied with our selection of students from among the applicants, but we are keenly aware of the mediocre and even poor performance of a few of them. We remind the faculty that a good proportion of graduates with distinction and high distinction started with similar weak first semester performances.

We are pleased that a strong and almost universal sense of pride in membership in a select and respected group identified with scholarship is evident among the students, accompanied by a strong feeling of companionship even in a setting of keen competition.

We are disappointed in our failure to get even small scholarships for all students in the Honors Program and remission of out-of-state fees. The chief obstacle seems to be lack of money, although a modest sum ($10,000) would provide a $200 scholarship for each freshman and sophomore in the program. We also feel some discouragement about our failure to arrange for additional sections of Honors courses. The obstacles seem to be both lack of money and reluctance of some departments to provide for teaching load adjustments. Perhaps at least part of the trouble is lack of conviction or knowledge on the part of some faculty members that the Honors Program is sufficiently important to justify much financial commitment or support. We were encouraged by the original report of the Subcommittee of the Committee of Fifteen on the Gifted Student - a report that the University Faculty and Board of Trustees approved - that "The University must recognize that an honors program will cost money", and we trust that in time this principle will be generally recognized.

We are hopeful and even confident that in the coming year we shall make progress in attaining some specific objectives. Our immediate tasks are (1) to arrange for a better system of Honors Counselors, based on the attached statement, (2) to arrange for at least one more Honors course, (3) to find some way to get scholarships so that we may be more successful in attracting more superior students.

The success of the program thus far may be attributed largely to the devoted efforts of the director, Dr. Diachun, who has spent considerably more than the stipulated half-time. This has not been achieved without personal sacrifice on his part. We wish to remind the faculty that as the program develops to include upper classmen, administration of the program will require more personnel than a half-time director and part-time secretary, if the program is to achieve its goal.

COUNSELORS

Every Honors Scholar should have a counselor or adviser or tutor who has an active program of study or research and has an interest in the Honors Program. The counselor would be the student's official advisor.

The counselor or advisor should:

1. Develop an active interest in the student and his studies.

   (a) meet with the student regularly and rather frequently.

   (b) have the student in his home.

   (c) offer the student friendship, encouragement, and help.

2. Help the student with his plan of study in the Honors Program.

   (a) help the student become acquainted with procedures in the University and requirements in his curriculum.

   (b) help the student select suitable courses.

   (c) help the student determine whether some courses can be by-passed or passed by examination.

   (d) open doors to interesting areas of study.

   (e) encourage the student to read, study and explore beyond the minimum course requirements.

   (f) provide opportunity for the student to talk about ideas stimulated by teachers in large classes where discussion is limited; if possible, pave the way for more personal association with teachers in large classes.

3. If the student does not belong in the Honors Program help him find out and get out gently and gracefully.

4. Help build in the student a sense of attachment and loyalty to the University through friendships established with professors and fellow students.

If this kind of counseling is taken seriously, it will probably mean that in most cases the counselor will meet with his advisees about once a week or at least once every two weeks, at times in small groups and at times individually. Some of these meetings might be in late afternoon or evening; they might be in his office or at his home; they might be on campus or off campus; they might at times include invitation for coffee or coke or lunch or supper. It might mean perhaps that the counselor would consider and accept the student as he would the son or daughter of a close friend.

At President Dickey's request, Dr. Dawson reported on a visit which he and other members of a special committee made to the University of Missouri for the purpose of studying their pre-classification system.

As a result of their investigation, the committee had formulated a plan for pre-advising of students rather than pre-calssification and preregistration.

Summer Program of Advising

New undergraduate students and former undergraduate students not in attendance during the preceding semester will be invited to the campus during specified periods of the summer for planning their academic programs.

1. Upon arriving on the campus students will report at a central meeting place for brief instructions on procedures.

2. Classification tests will be administered to those persons who have not taken them.

3. Each student then will be directed to the Dean of the college in which he expects to enroll. Here he will meet with his academic advisor with whom his program summary card and a proposed schedule of courses will be prepared.

4. The program summary card will be signed and retained by the advisor who will return it to the Dean's Office.

5. One copy of the college schedule card containing the proposed list of courses will be handed to the student.

6. Upon returning to the campus the following semester the student should call at his dean's office, according to an announced schedule, to obtain his program summary card, IBM schedule card, blank college schedule cards and other materials provided by the Dean. Then he should proceed to the Coliseum.

Students who have had the classification tests can expect to complete the above procedure by noon. Students who take the classification tests will be expected to report again to the central meeting place at 1:30 p.m.

Program Planning and Registration Procedures for the Coming Fall Semester

Preclassification (preadvising) of students enrolled during the current semester.

1. A student registered during the current semester who expects to attend during the coming fall semester may go to the Office of the Dean of the college in which he is enrolled any time after the beginning of the eleventh week and before the end of the fourteenth week of the semester (April 17 to May 13, 1961) to obtain his program summary card. This card shows the courses the student must take and presents also a list of approved electives designated by course numbers.

2. The program summary card is taken to the adviser at a mutually convenient time. The advisor selects the courses the

student is required to take during the semester under consideration and in conference with the student indicates also some preference among the electives. The advisor signs the program summary card, retains it in his possession and sends or takes it to the Dean's Office before the end of the semester.

Registration of Students During the Registration Period in the Fall.

1. Having returned to the campus to enroll for the fall semester the student should call at his dean's office, according to an announced schedule, to obtain his program summary card, IBM schedule card, blank college schedule cards and other materials provided by the Dean.

2. The student then should proceed to the Coliseum where he should develop his schedule of classes in detail at the front of the Coliseum where information as to closed classes is available.

3. Upon presenting both his IBM schedule card and his program summary card (signed by his advisor) the student will be admitted to the southwest concourse.

4. He should proceed around the concourse where departmental personnel will be available to issue IBM class cards and record his name on appropriate class rolls.

5. If a specific desired class card is not available the student must adjust his schedule of classes in accord with his program summary card, to permit his enrollment in a suitable class.

6. Proceeding then to the Dean's booth the student leaves a copy of his schedule, his program summary card and other required materials.

7. At the Registrar's table the student's IBM schedule card and class cards are collected and information is provided as to how and where he is to pay his fees.

8. Beyond the Registrar's table the student should proceed to a station where his photograph will be made to be used for his identification card.

9. This concludes the classification and registration procedure, except for the payment of fees.

President Dickey expressed appreciation to Dr. Dawson and his committee consisting of Deans Elton and Shaver and Mr. Clay Maupin of the Business Office.

The Faculty adjourned at 5:30 p.m.

Charles F. Elton
Secretary