Civil Engineering 130b, Highway Engineering (3)
Materials, construction and maintenance of intermediate
and high type roads including all types of bituminous
surfaces, macadams and Portland cement concrete. Lecture,
2 hours, laboratory, 3 hours. Prerequisite: Civil Engineering 130a.

President Donovan read a statement concerning Social Security coverage for University employees. This statement had been prepared by President Donovan in cooperation with a special committee for a presentation to the Board of Trustees at their next meeting.

Faculty adjourned.

Lee Sprowles
Secretary to the Faculty

Minutes of the University Faculty August 8, 1951

The University Faculty met in the Assembly Room of Lafferty Hall, Wednesday, August 8, 1951, at 3:30 p.m. President Donovan presided. Members absent were: W. R. Allen, A. E. Bigge, L. A. Bradford, C. C. Carpenter, Louis Clifton, Lyle R. Dawson, Betty J. Eilertsen, W. P. Garrigus, Elizabeth Helton, Sarah B. Holmes, P. E. Karraker, A. C. McFarlan, G. T. Mackenzie*, L. E. Meece, Frank Murray, Frank D. Peterson, A. E. Slesser, Earl P. Slone*, Robert H. Smith*, and Paul K. Whitaker.

The minutes of May 30 were read and approved. The Registrar presented the list of candidates for degrees who have completed all requirements and the Faculty voted to recommend these candidates to the Board of Trustees for the degrees indicated.

COLLEGE OF ARTS AND SCIENCES

Candidates for the Degree of Bachelor of Arts

Flonnia Carol Chambers Clifford Cary Coleman, Jr. Margaret Celeste Curlin Caroline Elizabeth Freeman Margaret Salenda Garrett Claude Meredith Hinton Eleanor McInturff Kenly Clara Jane Luchini Mary Bert McKenna Daisy Mullikin Ann Perrine Jimmie Maurice Porter

Donald Walton Rogers William Stahel Spilman Jane Ellen Tye James Craig Riddle Wright

Candidates for the Degree of Bachelor of Science

Mary Margaret Anderson
Warren Harold Brown
Joe Wilson Daugherty
John Franklin Daugherty
Charles Hammond Dugan
John Blain Flege, Jr.
Alexander Black Frame, Jr.
Charles Lindbergh Goodin

Herbert Neal Harkleroad
James Luther Hobbs, Jr.
William Caden Kranz
John Conrad Landgrebe
Dorothy Louise McIntosh
Raymond Leslie Rose, Jr.
Francis Leo Stanonis
William Burton West

Candidates for the Degree of Bachelor of Arts in Journalism

William Joseph Boughey

William Mason Samuels, Jr.

Candidates for the Degree of Bachelor of Music

Betsy Bishop Dodge

Donald Wesley Ivey

Candidates for the Degree of Bachelor of Science in Medical Technology

Robert Edwin Gevedon
John Wilson Knox

Helen Louise Smith Margery Jean Swint

Candidates for the Degree of Bachelor of Science in Library Science

Ruth Naomi Blodgett
Frances Atwood Cook
Helen Stellar Koch
Forrest Marie Main Lawrence

Cinderella Armstrong Ledford Marjorie Flynn Lisle Virginia Dunn Maxwell Truman Hannah Richey

COLLEGE OF AGRICULTURE AND HOME ECONOMICS

Candidates for the Degree of Bachelor of Science in Agriculture

Clarence Bailey Ammerman John William Bentley Paul Bowling Charles Hollowell Cain, Jr. Ira Combs Dickson Blanton Cooper Roy Ragan Denney Charles Morton Derrickson Garrett Fulton Donovan Elvin E. Durham George Price Francis, Jr. John Townsend Godfrey Andrew Zachery Howard, Jr. James Coleman Martin Charles K. Moore Edwin Kenner Newell, Jr. James Clifton Northcutt

Lones O'Daniel, Jr. Pierson Sherwood Oliver, Jr. Ralph Gray Perkins John Pirri, Jr. Theodore Siegfried Rau Billy Eugene Redden Robert Newton Risner Eugene Douglas Scott James David Sigler Clinton Ray Springate Otha Victor Steger Robert Woodson Teater Calvin Clay Truitt Hayden Watkins Richard Armistead Watson Laurence Hubert Wolfe

Candidates for the Degree of Bachelor of Science in Home Economics

Dorothy Ann Dickson Nancy Jane Harris LaFern Horton May Seil Leach Ramona Ruth Lenox Louise Martin Nancy Rene Scott Virginia Murray Tilton

COLLEGE OF ENGINEERING

Candidates for the Degree of Bachelor of Science in Civil Engineering

Walter Gene Akin
Claude Mitchell Brown, Jr.
Roger Francis Field
Pedro Angel Flores
John Walter Gutermuth, Jr.
Samuel Newton Johnson, Jr.
George Lynn LeBaron, Jr.
Manuel Odon Mercado
Charles Griffith Mitchell, Jr.

Carl Lester Pennington
Warren Pfefferle
Paul Fernand Rassinier
Herman Daniel Regan, Jr.
Byron Foster Romanowitz
Howard Eugene Smith
Ed Trebolo
Garey Lee White

Candidates for the Degree of Bachelor of Science in Electrical Engineering

John Lewis Chenault
Murray Franklin Dickson
Raymond Jewel Distler
Holloway Fields, Jr.

Charles Warren Greenfield Davis Marshall Gritton William Talmadge Hudson Harold John Jones Lloyd Lewis Leach
James Roberts McNeal
Andrew Milton Prettyman
William Franklin Quillen

Ollie J. Smith James Bertrand Weis William Ward Zoellers

Candidates for the Degree of Bachelor of Science in Mechanical Engineering

David Edward Bonn
Enoch Jackson Browder
Edwin Ray Evans
William Otho Gaffin
Weldon Eugene Gilbreth
Preben Madrup Haagensen
William Lane Holland
Kenneth LeRoy Johnson

Floyd Lee Layman
John Ashley LeGette
Jesse Robert Mavity
Morris Jackson Merideth
Thomas Edward Mullin
William David Wannamaker
Clayton Eugene Webb
Louis William Withers

Candidates for the Degree of Bachelor of Science in Metallurgical Engineering

James Edward Fox

Adolph Paul Rasmussen, Jr.

Candidates for the Degree of Bachelor of Science in Mining Engineering

Ralph Breeding Luther Moore Billy Joe Schroeder Ezra Donald Slone

COLLEGE OF LAW

Candidates for the Degree of Bachelor of Laws

John Lane Ackman Bradley Combs Brian Ward Daugherty Kenneth Harold Goff William Murphy Howard James Bennett Stephenson Rodney Jackson Thompson

COLLEGE OF EDUCATION

Candidates for the Degree of Bachelor of Arts in Education

George Frederick Blanda
James Buckner Bowen
Crawford Bradley
Alice Mae VanVelzel Brown
Birdie Alice Brown

Clarence Brown
Charles Lee Calk
Louise Collingsworth Cassady
Arlie Chaney
Peggy Geralyn Compton

James Durham Mary Goff Field Billie Jane Freeman Marie Jones Harber Mary Emily Harned Ollie Mildred Hart Harrell A. Hoskins Harris Stephens Howard Carl D. Ison Junne Wood Jensen Winnie Burchett Johnson Josephine Cooper Johnston Mary Josephine Richerson Jones Ben Frank Kanatzer Virginia Faye Lake Pauline Belle Ligon Vivia Mae Lobb

Lois Marie Mansberger Elmer Clifton Moore Doris Lee Napier Mattie Jones Pridemore Cordelia DeShazer Pullum Marian Jean Pumphrey Howard Rhudy Hazel Margaret Sheperson Mary Forrest Simpson Bernice Ruth Smart Evalena Gilbert Spears Rosa Nelson Mason Talbert William Courtney Taylor Marjorie Threlkel Wallace Willa Deanne Wilson Lewis Curry Woods, Jr.

COLLEGE OF COMMERCE

Candidates for the Degree of Bachelor of Science in Commerce

Edward Myron Appleton
Patty Sue Baker
Thomas Ernst Barnes
Wilfred Hughes Cornett
Lois Elaine Craig
Philip Lee Hayes
Hugh Glenn Hunt
Bobby Whitfield Jenkins
Leonard Taylor Kernen
Braxton Russell King
Aino Kolk
Robert Bishop Lorch, Jr.
Joseph Edward Mainous
Alan Edward Marsh

Kermit Patterson
Juan Bautista Pinto A.
John Charlie Platter
Henry Busnach Sohmer
Richard Montague Stoll
William Crawford Stonehouse, Jr.
Joe Cecil Strong
Robert Travis Tichenor
Robert Elmo Tuttle
Carlos Watkins
Harold Dean Wilson
Robert Clinton Woodard
Harold Herbert Wooddell

GRADUATE SCHOOL

Candidates for the Degree of Master of Arts

James Howard Allen
Woodrow Allen
Richard Bradley
Mary Wood Brown
Leonard James Brummett
Robert Mrmistead Bryan
Elizabeth Gould Davis
Emmett Ralls Davis, Jr.
Frank James Falck
John Harold Fenton, Jr.
Arthur Foster Glickstein
Harry Adolph Hultgren

Milton Zack Kafoglis
Waltraut Ellen Kerckhoff
Maurice Flower Knott
Laura Brown Logan
Thomas Peter Lynch
Joseph Camille Marek
Robert Clarence Meyers
Will Stoll Myers, Jr.
Glen Elmer Roberts
Frederick Dewitt Smart
Milton Houck Townsend

Candidates for the Degree of Master of Science

Raymond Charles Allred
Ching Wen Chien
Alex Ciegler
Richard Hardin Graves
Edgar Percival Gwynn, Jr.
Mary Catherine Heath
Eugene Combs Ison
Norman Jerry Klein

Conan Hyman Kornetsky
Edward Meyers
Irving Millman
James Howard Murphy
James Robert Powers
Lionel Howell Prescott
Herbert Edwin Shadowen
Albert Lee Stone
Omer Joshua West, Jr.

Candidates for the Degree of Master of Science in Public Health

Carmen Eugene Akers
Anne Lee Brown

James John Croley, Jr. Hal Guy Etter

Drexal Ray Wells

Candidates for the Degree of Master of Science in Agriculture

Louis Nelson Baker
Louis Jefferson Boyd
Charles Frank Buck, Jr.
Leon Fredric Bush
Albert Estern Drake
Edd Coolidge Hogg

Charles Avery Keown General Tye King Levi Oliver John William Tuttle William Foster Walker

Candidates for the Degree of Master of Science in Home Economics

Mildred Gortney Dickerson

Candidates for the Degree of Master of Science in Electrical Engineering

Willard Randell Becraft

Wesley Kendrick Kay

Candidates for the Degree of Master of Science in Mechanical Engineering

George Thomas Privoznik

Candidates for the Degree of Master of Science in Mining Engineering

Elza Fain Burch

Harry L. Washburn

Candidates for the Degree of Master of Arts in Education

Virginia Frances Ackman Hugh Carney Adams, Jr. Eleanor Downing Allender William Oscar Anderson Dorothy Elizabeth Archer William Bradley Baker Ivan Eugene Ball John Lynn Bartlow Elizabeth Alena Beaty Jennie Houck Best Richard Irvin Betz Verdella Caldwell Beverly Joe Donald Botto Charles William Bryant Chester Orlin Cantrelle Kathryn Cundiff Carter James Isaiah Cheek Charles Bardwell Chidester Ruchira Cinnapongse Alma Clarkson Duke Wells Congleton Lester John Cooper Ernestine Cox Rebecca Mary Cunningham Joseph Clifford Denny Roy Hancock Dorsey Loy Newton Dycus Susie Jones Elster Frank Van Hagg Firestine, Jr. John Lewis Fleming Margaret Lois Smith Fobiano Burtis A. K. Franklin Evalyn Frazier Susan Frances Gabby Harold Edward Graham Roscoe Lee Grider Paul Harold Gunsten, Jr. Kenneth Hugh Hale William Burns Hall Lula Owen Hearn Karl Thomas Hereford Joyce Mae Hoskins John Henry Howard William Donald Howard Dewey Everett Huff George Elwood Jaeger Charles Robert Jones, Jr.

Mary Joseph Jones Nelson Jones Paul Eugene Jones Kenneth Richard Kuhnert Harvey Bently Lawson Elmer Turner Lee Crait Lester Rachel Whitenack Lester Mary Elizabeth McAllister William Beryl McAllister Alma Esther McLain Virgil James Marcum Angelo Anthony Marinaro Stanley Newton Marsee Harry Cecil Martin Harry Elmo Meacham Harold Mitchell Miller Roy Marvin Miller Wayne Alexander Monroe, Jr. Sarah Clarke Muth Mary Elizabeth Mynhier Nita Truitt Neill Robert Dudley Neill Betty Richardson Newby Carl Duane Nickell Thomas Joseph Norris Glenn Sampson Ours Samuel Wilbur Patton Lorena Gail Pauley Mary Louise Norman Phelps Ann Elizabeth Cantrell Pickett Walter Jenkins Pickett Samuel Robert Powell Carl Bradley Puckett Clarence Eugene Rall Wayne Damron Ratliff Willie Dan Reynolds Edward Eugene Rice Marion Walter Rowe Lula Margaret Rupley John Desha Scanlon Charles David Schifler Dora Alice Shields David Alexander Singleton Frisby Davis Smith Nina Sparks Raymond Estill Standiford

William Davis Stephens
Robert Bruce Stewart, Jr.
Stellarose Martin Stewart
Charles Dawson Stout
Robert Lewis Tanner
Maurice Lafayette Tribell
John Benjamin Tussey

Roscoe J. Waddell
Nicholas Wanchic
Louise Whitlow
Oren Brenton Wilder
Viola Turner Williamson
William Lawrence Wooden
Virgil Frimd Young

Candidates for the Degree of Master of Science in Education

Helene Louise Arnold
Garland William Blair
James Roy Fitzpatrick
Paul Blackburn Mitchell
Laura Virginia Peed

Bettie Riggs
Willadene Rominger
Robert Lee Shepherd
Claude Adams Taylor, Sr.
Wayne McClure Williams

Candidates for the Degree of Master of Music

James Wendel Rooker, Jr.

James Hart Walker

Candidates for the Degree of Doctor of Education

Zebrum Slusher Dickerson, Jr. William Harold Harris

Robert Lee Mills
Clarence Talmadge Sharpton

Candidates for the Degree of Doctor of Philosophy

Elsie Jenoise Dotson
Carl Richmond Fields
Achilles Elmer Foster
Joe Love Lawson, Jr.

John C. Redman George Harry Scherr James Henry Stewart

Graduated "With High Distinction"

Flonnia Carol Chambers
Raymond Jewel Distler
John Blain Flege, Jr.
Preben Mandrup Haagensen
Herbert Neal Harkleroad

Donald Wesley Ivey
Ann Perrine
Helen Louise Smith
William Stahel Spilman
William Crawford Stonehouse, Jr.

Robert Woodson Teater

Gruated "With Distinction"

Clarence Bailey Ammerman Peggy Geralyn Compton Josephine Cooper Johnston
Mary Josephine Richerson Jones

Aino Kolk

Dean White presented for the College of Arts and Science new courses and course changes, which were approved:

I. NEW COURSES

Physical Education 72a Intermediate Football (2)
A specialized course for students who wish to become coaches;
detailed discussion of the fundamentals of all positions and
coaching techniques. 4 hours laboratory.

Physical Education 72b Intermediate Football (2)
A continuation of Phy. Ed. 72a; playing strategy and coaching techniques. 4 hours laboratory.

Psychology 130a Speech Correction: A Survey (3)
An introduction to the nature, causes and treatment of the major disorder of speech, articulation, stuttering, voice, cleft palate, hearing, cerebral palsy and aphasia.

Psychology 130b Speech Correction: An Introduction to Therapy (3)

Observation and discussion of and limited supervised experience with therapeutic techniques and procedures of speech therapy. Prereq: Psy. 130a or concurrent.

Psychology 315a,b Practicum in Speech Therapy (3 ea.)
Practical case work in speech therapy in speech clinic,
hospitals and public schools. Training in diagnostic examinations, case history methods and group therapy. Prereq.
Psy. 130a or concurrent.

Air Science 16a,b Air Science III, ROTC (Flight Operations) (4 ea.)

A study of the Major Commands to include the mission, organizations, type af equipment, and method of operation of each, principles of flight, aircraft engineering and introduction to instruments, air navigation, meteorology and new developments. 5 hrs. per week. Prereq. 41a, b.

Air Science 17a,b Air Science IV, ROTC (Flight Operations) (4 ea.)

Advanced instruction in navigation and bombing to include the theory of radar as applied to each. Instruction will also include the general duties and responsibilities of an Electrical Counter-Measures Officer and Radar Observer, and All Wather Fighter. 5 hours per week. Prereq. 16a, b

Journalism 130 Introduction to Press Photography (3)

Music 224a,b Advanced Musical Analysis (2 ea)

Radio Arts 103 Radio and Television Advertising (2)

Romance Languages 32a,b Intermediate Russian (3 ea.)

Political Science 141 Police Administration (3)
An introductory course in police administration and procedure.
Major topics: Evolution of polic administration; organization and functions of modern police departments; police and politics; recruitment of personnel; state and local police training programs; compensation systems; police discipline; analysis of police problems; intergovernmental cooperation in law enforcement; jurisdictional conflicts between law enforcement agencies; state police and local law enforcement; crime as a social problem; crime detection; educational methods for combating crime and vice; the policeman and his duties; Prereq. Consent of Department.

Political Science 142 Police and the Public (3)
Astudy of police and public relations. Major topics; public attitutes toward police; desirability of good relations between police and the public; police training for good public relations; need of cooperation of public for effective police administration and crime detection and prevention; methods of securing public cooperation in law enforcement; public opinion and law enforcement; the police and civil liberties; police statistics and crime reporting. Prereq. Consent of Department.

Political Science 143 Police Science Laboratory (3)
A general course in police science laboratory techniques. Major topics: European and American experience in criminal investigation; training in evidence preparation; the coroner versus the state medical examiner; central laboratory services; collection of physical evidence; actual and hypothetical case studies; problems of handwriting and typewriting in the examination of questioned documents; classification, filing, and search of fingerprint records; firearms identification; national, state and local cooperation in criminal identification. Prereq. Consent of Department.

Political Science 144 Traffic Regulation (3)
An introduction to the principles of traffic regulation. Major topics: Imprtance of traffic regulation; organization and functions of the police traffic division; the policeman and traffic regulation; analysis of traffic problems; methods of traffic regulation; accident investigation; accident statistics, safety education programs; traffic, parking control, and city planning; planning and organization of traffic control programs.

II. COURSES TO BE DROPPED

Physical Education 72 (3)

Psychology 130 (3)

Radio Arts 105b (2)

III. CHANGE IN TITLE AND DESCRIPTION

Journalism 118 Change title to Public Relations.

Journalism 100a, b Change hours to 2 hours of lecture-recitation and 2 hours laboratory.

Sociology 19a,b to Sociology 19la,b.

Sociology 20a, b to Sociology 192a, b.

Sociology 27 to Sociology 129.

IV. CHANGE IN CREDIT

Library Science 232 from 4 to 3 credits
Library Science 252 from 4 to 3 credits.

V. MISCELLANEOUS

School of Journalism: Drop the present Lower Division requirements for Pre-Journalism students as now outlined on page 64 of the 1950-51 General Bulletin and substitute: Lower Division requirements of the College of Arts and Sciences and 6 to 8 credits in Journalism taken during the freshman and sophomore years.

I. NEW COURSES

Math. & Astr. 35 Differential Equations for Engineers (2)
First order differential equations, second order differential
equations with constant coefficients, and applications. Prerequisite: M & A 20b

Math. & Astr. 53 Introductory Astronomy (3)
A non-mathematical, descriptive course dealing with the celestial sphere, earth, moon, sun solar system, stars, the interstellar medium, the galaxy, and extragalactic systems. Prerequisite: None

Math. 7 Astr. 55a,b. Elementary Astronomy (3 ea.)
The celestrial sphere, time calendar, apparent motions of heavenly bodies; practical and gravitational astronomy, instruments; the planetary system; the sun, moon, starts, stellar motions, stellar variation; Milky Way system, cosmology. Prerequsities: M & A 17,18

Math. & Astr. 56a, b Spherical Astronomy (3 ea)
Spherical trigonometry, celestial sphere, refraction, planetary
motions, time, planetary phenomena, aberration, parallax, precission
and mutation, proper motion of stars, astronomical photography, binary star orbits, occulations and eclipses, dependencies. Prerequisite:
M & A 19.

Math. & Astr. 37. Fundamentals of Elementary Mathematics (3)
A course designed to give teachers an understanding of elementary mathematics. Selections will be made from: the number system; elementary number theory, algebra, non-Euclidian geometry, finite geometry, topology, matrices. Prerequisite: Consent of instructor.

Physics 230a. Nuclear Physics (3)
A lectur and problem course dealing with advanced experimental nuclear physics. Topics include properties of nuclei, nuclear transformations, observational methods, radioactivity and interaction of radiation with matter. Prerequisites: Physics 217a or equivalent.

Physics 230b. Nuclear Physics (3)

A lectur and problem course concerned with the theories of the structure of atomic nuclei. Topics include nuclear shell structure, internuclear forces, nuclear binding energies, and theory of nuclear reactions. Prerequisites: Physics 215a or equivalent.

Physics 231. Atomic Structure (3)
A lecture and problem course treating the theory of atomic structure.
Topics include atomic and molecular spectra, multiplet structure,
interatomic and intermolecular forces, and quantum mechanical treatment of the vector model. Prerequisite: Physics 215a or equivalent.

Physics 232 Statistical Mechanics (3)
A lecture and problem course dealing with the thermal properties of matter from the standpoint of statistical mechanics. Topics include thermodynamic properties, perfect gases, and Fermi-Dirai statistics.

Prerequisite: Physics 123b, 217a or equivalent.

II. COURSES TO BE DROPPED

Math. & Astr. 36 Introduction to Modern Advanced Algebra (3)

Math. & Astr. 5la, b. Descriptive Astronomy (3 ea.) (Effective January 31, 1952).

Math. & Astr. 52a, b. Practical Astronomy (3 ea.)

Physics 210 Electrodynamics (3)

III. CHANGE IN TITLE AND DESCRIPTION

Physics 250 Relativity to:

Physics 250 Cosmic Rays and Relativistic Phenomena (3)
A lecture and problem course dealing with the field of cosmic rays.
Topics include relativity theory, interaction of cosmic rays with matter, shower theory, properties and production of mesons. Prerequisites: Physics 217b or equivalent.

Physics 224 Advanced X-Rays and Crystal Structure to:

Physics 224 Theory of the Solid State (3)
A lecture and problem course covering the fundamental theory of the structure and properties of complex atoms, molecules, liquids and solids. Topics include mechanical, chemical and thermal properties of matter. Prerequisites: Physics 215a or equivalent.

Math. & Astr. 105a <u>Differential Equations</u> (3) Change description to read: First order differential equations, singular solutions, solutions, second order differential equations, intergration in series, special second order equations. Prerequisite: M & A 20b.

Math. & Astr. 105b Differential Equations (3) Change description to read: Equations in several variables, partial differential equations. Prerequisites: M & A 25, 105a

IV. MISCELLANEOUS

Request that students in Music 22a, b, 23a, b, 28a, b, 29a, b, and Military Science 3a, 4a (University Band) be excused from classes October 26 and 27, 1951, to accompany the football team on an authorized trip. (Request approved by University Faculty).

Associate Dean Horlacher presented for the College of Agriculture and Home Economics a recommendation for course changes:

Markets and Rural Finance 230a to Markets and Rural Finance 230.

Drop: Markets and Rural Finance 230b (2) and substitute: Markets and Rural Finance 231 (3)

Catalog listing would read: 231 Statistics for Agricultural Research: Plant and Animal Sciences (3)
Analysis of variance and covariance; statistical considerations in the design and experiments; tests of significance and confidence limits. Prereq. M & RF 130 or equivalent.

The University Faculty approved a request from the College of Engineering, presented by Dean Terrell, to reinstate Civil Engineering 31, Highway Location, Construction and Maintenance, 2 semester hours, for the Summer Session 1951, after which the course may be dropped. This course had been dropped by the University Faculty May 30, 1951.

President Donovan announced the program for the Commencement Exercises, Friday, August 10, and urged attendance by the University Faculty and Staff. He stated that the speaker was to be Dr. Philip Grant Davidson, the new President of the University of Louisville.

The Faculty adjourned.

Lee Sprowles
Lee Sprowles
Secretary