

MINUTES OF THE UNIVERSITY FACULTY, December 10, 1956

The University Faculty met in Lafferty Hall, Monday, December 10, 1956, at 4:00 p.m. President Dickey presided. Members absent were Staley F. Adams, A. D. Albright*, C. Arnold Anderson, Leo M. Chamberlain, C. Howard Eckel, H. A. Ellis, Irving S. Fisher, William H. Grubbs*, C. T. Lesshafft, A. C. McFarlan, Paul Oberst, Sallie E. Pence, Helen M. Reed, E. G. Trimble, Kenneth Vanlandingham, and Frank J. Welch.

The minutes of November 12th were read and approved.

President Dickey stated that two students, Miss Carolyn Collier and Mr. David Noyes, and also Mr. Beasley of the Alumni Association, had been invited to the meeting to present to the Faculty plans for the proposed "Little Kentucky Derby" weekend. Miss Collier explained that the purposes of this weekend, Friday and Saturday, May 10 and 11, included three points: 1. To work with the Alumni Association in building and strengthening this organization so that we may all work together for a greater University of Kentucky. 2. To promote better school spirit and student morale. 3. To promote a student aid scholarship program in which students help fellow students.

Events include a campus open-house for all colleges; a picnic in Memorial Hall Amphitheatre for students, faculty, alumni, parents and friends; a variety show; a derby breakfast; a bicycle race; debutante stakes; and a May Day parade; also a dance in the Student Union Building on Saturday evening. They also wish to include the Honors Day program, Friday morning, May 10, at 10:00 o'clock.

Richard Lehman, President of Student Government Association, moved that the Faculty approve this proposal. Dean Terrell offered an amendment that the events be approved subject to the rules and regulations of the University and subject to underwriting by the Alumni Association. The amendment and the motion were both approved by the Faculty.

Dean Wall presented for the Colleges of Agriculture and Home Economics and Engineering a proposed curriculum in Agricultural Engineering; also the new courses and changes in courses that would be required to implement this new curriculum. The University Faculty approved the recommendation.

PROPOSED CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURAL ENGINEERING

FIRST SEMESTER		FRESHMAN YEAR		SECOND SEMESTER	
	Crs				Crs
Agr Engr 1a--The Engr Profession	0	Agr Engr 1b--The Engr Profession	0	Agr Engr 1b--The Engr Profession	0
English 1a--English Composition	3	English 1b--English Composition	3	English 1b--English Composition	3
Math 17--College Algebra	3	Math 19--Plane Analytic Geometry	3	Math 19--Plane Analytic Geometry	3
Math 18--Plane Trigonometry	3	M E 5--Slide Rule	1	M E 5--Slide Rule	1
Chem 2a--Gen Chem for Engineers	4	Chem 2b--Gen Chem for Engineers	4	Chem 2b--Gen Chem for Engineers	4
E D 1a--Elem Engr Drawing	2	E D 1b--Descriptive Geometry	2	E D 1b--Descriptive Geometry	2
Military or Air Science	2	Agron 5--Intro to Agronomy	3	Agron 5--Intro to Agronomy	3
Physical Education	1	Military or Air Science	2	Military or Air Science	2
		18		Physical Education	1
					19

*Absence explained.

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SOPHOMORE YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
Agr Engr 2a--The Engr Profession	0	Agr Engr 2b--The Engr Profession	0
Math 20a--Differential Calculus	4	Math 20b--Integral Calculus	4
Phys 3a--General College Physics	3	Phys 3b--General College Physics	3
Phys 4a--Physics Laboratory	2	Phys 4b--Physics Laboratory	2
C E 12--Plane Surveying	2	A M 3--Statics	3
M E 15a--Manufacturing Processes	2	Agron 61--Soils	4
A I 1--Fm Livestock Prod or	3	Military or Air Science	2
A I 21--Farm Dairying	3		18
Military or Air Science	2		
	18		

JUNIOR YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
Agr Engr 3a--The Engr Profession	0	Agr Engr 3b--The Engr Profession	0
A M 100--Strength of Materials	4	Applied Mech 4--Dynamics	2
C E 81--Testing Materials	1	M E 134--Elem of Engr Thermodyn	3
Agr Engr 20--Farm Machinery	3	Agr Engr 6--Machine & Struct Prac	2
Agr Econ 1--Agricultural Economics	3	Agr Engr 121a--Fm Buildings & Eq	4
Geol 12a--Elem Geol for Engineers	3	Geog 10--Economic Geography Surv	3
*Elective	3	*Elective	3
	17		17

SENIOR YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
Agr Engr 4a--The Engr Profession	0	Agr Engr 4b--The Engr Profession	0
Agr Engr 120--Agr Tractor Power	3	Agr Engr 122a--Soil & Water Cons. Engr	4
EE 101--Fund of Elec Machinery	3	Agr Engr 124--Electricity in Agr	3
ME 107--Fluid Mechanics or	4	Agr Econ 110--Farm Management	3
CE 120--Hydraulics and	2	English 6--Essentials of Speech	3
CE 123--Hydraulics Laboratory	1	Hist 5b--History of US since 1865	3
Econ 51--Prin of Economics	3	*Elective	3
English 30--Business English	2		19
*Elective	3		
	18 or 17		

*All electives selected must have the approval of the Head of the Department.

Suggested technical electives. (For non-technical electives see catalogue statement on Options and Electives):

Agr Engr 121b, 122b	E A 102	Agr Ext 101
Arch Engr 7a	A M 2	Agron 111, 114, 120
C E 107, 110a, 126, 171a, 175	Met E 37	A I 81
E E 105a, 105b, 107R, 107L	Com 109a	R S 10
M E 100a, 109, 116, 129, 141a		

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DESCRIPTION OF NEW COURSES TO BE OFFERED FOR THE PROFESSIONAL CURRICULUM IN AGRICULTURAL ENGINEERING

Agr Engr 1a,b--THE ENGINEERING PROFESSION (Freshman) (0 ea) I, II
 Agr Engr 2a,b-- " " " (Sophomore) (0 ea) I, II
 Agr Engr 3a,b-- " " " (Junior) (0 ea) I, II
 Agr Engr 4a,b-- " " " (Senior) (0 ea) I, II

Lectures on professional growth, conduct, and ethics, activities of the student branches of the corresponding professional societies.

Agr Engr 6 MACHINE AND STRUCTURAL PRACTICES (2) II

Principles and practices of farm construction in metal, wood, and masonry. Welding, machinery repair, framing of farm structures, and farm concrete work. Lecture one hour; lab two hours

Agr Engr 20 FARM MACHINERY (3) I

A study of farm machinery dealing with its development, design, tests, costs, selection, utilization, and maintenance. Lecture two hours; lab two hours. Prereq: A M 3

Agr Engr 120 AGRICULTURAL TRACTOR POWER (3) I

A study of internal combustion engine cycles; principles of construction, operation, and adjustment of engines and tractors; power and performance measurements; economics of tractor power. Lecture two hours; lab two hours. Prereq: Agr Engr 20 and M E 134

Agr Engr 121a FARM BUILDINGS AND EQUIPMENT (4) II

Functional requirements of farm buildings and structures; planning for plant and process efficiency; selection and utilization of materials; sanitary equipment and disposal of wastes; preparation of plans, estimates, and specifications. Lecture two hours; lab four hours. Prereq: A M 100, E D 1b

Agr Engr 121b FARM BUILDINGS AND EQUIPMENT (3) I

Continuation of Agr Engr 121a with more advanced study devoted to several of the same topics. Lecture two hours; lab two hours. Prereq: Agr Engr 121a

Agr Engr 122a SOIL AND WATER CONSERVATION ENGINEERING (4) II

Engineering aspects of the control of surface and subsurface water to aid agricultural production. Mapping of farm land; design and construction of terraces, dams, waterways, drainage, and irrigation systems. Lecture three hours, lab two hours. Prereq: M E 107 or C E 120

Agr Engr 122b SOIL AND WATER CONSERVATION ENGINEERING (3) I

Continuation of Agr Engr 122a with more advanced study devoted to several of the same topics. Lecture three hours. Prereq: Agr Engr 122a

Agr Engr 124 ELECTRICITY IN AGRICULTURE (3) II

Planning and design of adequate farmstead wiring systems; utilization of electricity for heat, light, power, for control of agricultural machines and processes, and for chemical, biological, or other effects in agricultural production. Lecture, two hours; lab, two hours. Prereq: E E 101

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CHANGES IN PRESENT COURSES OFFERED BY THE DEPARTMENT OF AGRICULTURAL
ENGINEERING

In order to provide appropriate identification of courses in agricultural engineering, the following changes in course numbers and titles are proposed. These offerings are referred to as service courses and are offered primarily for students majoring in agriculture.

<u>Present designation</u>	<u>Proposed designation</u>
Fm Engr 1 MECHANICS OF THE FARMSTEAD	Agr Engr 15, Same title
Fm Engr 2 FARM MOTORS	Agr Engr 16, FARM ENGINES AND TRACTORS
Fm Engr 3 FARM STRUCTURAL ENGINEERING	Agr Engr 17a FARM SHOP
Fm Engr 4 FARM SHOP	Agr Engr 17b Same title
Fm Engr 101a-c SPECIAL PROBLEMS	Agr Engr 101a-c Same title
Fm Engr 102 DAIRY ENGINEERING	Agr Engr 102 DAIRY EQUIPMENT
Fm Engr 104 RURAL ELECTRIFICATION	Agr Engr 104 FARM ELECTRIFICATION
Fm Engr 105 ENGR PRACTICES IN WATER MANAGEMENT	Agr Engr 105 FARM WATER MANAGEMENT
Fm Engr 106 ADV FARM MACHINERY	Agr Engr 106 FARM POWER AND MACHINERY
Fm Engr 107 ADV FARM STRUCTURES	Agr Engr 107 FARM STRUCTURES

Also, it is proposed that Agr Engr 104 FARM ELECTRIFICATION presently offered with two hours lecture and two credits be changed to two hours lecture and two hours laboratory, 3 credits.

APPENDIX

COMPARISON OF THE PROPOSED UNDERGRADUATE CURRICULUM IN AGRICULTURAL
ENGINEERING AT THE UNIVERSITY OF KENTUCKY WITH SIMILAR PROGRAMS AT CLEMSON,
PURDUE, MICHIGAN STATE, AND MISSOURI - DISTRIBUTION OF CREDIT HOURS /1

	<u>Kentucky</u>	<u>Clemson</u>	<u>Purdue</u>	<u>Michigan State</u>	<u>Missouri</u>
Non-cred lect	4 yrs	-	1 yr.	2/3 yr	1/2 yr
Seminar, Problems	1	3	2	2/3	1
English Humanistic & Social Studies	20	21	18	22	20
Math & Basic Sciences	38	42	44	38 2/3	41
Engineering Sciences	20	21	26	17 1/3	14
Drawing Graphics & Machine Design	4	4	3	7 1/3	6
Surveying	2	2	-	2 2/3	3
Shop & Mfg Processes	4	6	2	6 2/3	3
Agriculture	16	11	21	10 2/3	13

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	<u>Kentucky</u>	<u>Clemson</u>	<u>Purdue</u>	<u>Michigan State</u>	<u>Missouri</u>
Agricultural Engineering	17	24	18	20	21
Elective	12	12	9	6 2/3	13
Mil or Air Sc	8	4	9	4	4
Phys Education	2	-	-	0	4
TOTAL	<u>144</u>	<u>150</u>	<u>152</u>	<u>136 2/3</u>	<u>143</u>
			-10 Summer School		
		Net	142		

/1 Curricula in agricultural engineering at Clemson, Purdue, Michigan State, and Missouri are among those which have been accredited by the Engineers' Council for Professional Development.

The Faculty also approved recommendations from the College concerning new and dropped courses and changes in courses in Home Economics.

Courses to be dropped

Home Economics 3 Dietetics for Nurses (4 credits)
Home Economics 59a-c Child Care in Relation to Home and Family Life (2 credits each)

Courses to be Added

Home Economics 133 Fashion (2 credits) II, S Guenther
How the fashion world works. Study of French, Italian and American designers who have greatest influence on current trends. Field trips to augment lectures. Lectures, two hours. H E 27 or approval of instructor.

Home Economics 144 Food Service Accounting (3 credits) I Brownlie
Application of accounting principles to food service in the cafeteria, lunch room, tearoom, restaurant, residence hall, hospital and other institutions. Lecture, one hour; laboratory, four hours. Prereq: H. E. 41 Econ. 51

Home Economics 170 Demonstration Techniques (3 credits) II Combs
Emphasis on planning and presenting food and equipment demonstrations. Lecture, one hour; laboratory, four hours. Prereq: H E 168

Home Economics 180 Aging and Later Maturity (3 credits) S McDowell
Aging and the years of later maturity; with respect to characteristic adjustment problems and potentialities of retirement, employment, living arrangements, mental health, family relationships.

Changes

Home Economics 103a-b Community Nutrition (3 cr. each)

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from:

Study of nutrition education with emphasis on causes and effects of malnutrition, methods of judging nutrition and development of health programs in public schools. Lectures, 2 hours; laboratory 2 hours. Prereq or concurrent: H E 102

To:

Study of nutrition education programs on a community level. Experience is provided for presenting nutrition in health clinics, schools and state institutions. Lectures, 2 hours; laboratory 2 hours. Prereq. or concurrent: H E 102

Home Economics 105a-c, Experimental Cookery (3 cr each)
Change prerequisites from Chem 37, H E 5, or approval of instructor-
To - H E 5, 11.

Home Economics 111 Advanced Nutrition (6 credits)
Change in credit and prerequisites
from:
Lectures 3 hours; lab 6 hours. Prereq: H E 11
To:
Lectures 2 hours, lab 4 hours. - (4 credits) Prereq. H E 11, Chem 37

Home Economics 112 Nutrition in Disease (Change in credits)
From: Lecture, 2 hours; lab 4 hours - (4 credits)
To: Lecture, 1 hour; lab 2 hours - (2 credits)

Home Economics 115a-b Food for Special Occasions (Change in credit)
From: (2 credits each) - Laboratory 4 hours
To: (3 credits each) - Laboratory 6 hours

Home Economics 29 Home Furnishings (3 credits)
Add to description - Open only to non-home economics students.

Home Economics 129 Interior Decoration (Change in name, lectures and lab)
From: Interior Decoration - lectures 2 hours; lab 2 hours.
To: Interior Design - lecture, 1 hour; lab 4 hours.

Home Economics 130a-b Interior Decoration Projects
Change in prerequisite - From H E 129
To: H E 129 or approval of instructor

Home Economics 134 Economics of Clothing
Change in prerequisite - H E 27, 161
To: H E 27, 161 or approval of instructor

Home Economics 138a-c Special Problems in Interior Decoration
changed in name only - To: Special Problems in Interior Design.

Home Economics 139 - change in name from: Advanced Interior Decoration
To: Advanced Interior Design

Home Economics 156 Play and Play Materials - Add as prerequisite: H E 52

Home Economics 168 Household Equipment Change prerequisite - from: Physics 51a, H E 61. - to: Prereq or concurrent; Physics 51a, 51b, or 8; Prereq. H E 61

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Animal Industry 5 Light Horse Husbandry (Change in description)
Delete from the description of course the phrase "Not open to freshmen".

Changes in Home Economics courses are to be effective, June 1957.

Dean Slone presented for the College of Pharmacy proposed course changes and a revision in the Pharmacy curriculum made necessary by the removal of the College to the Lexington campus next fall. After some discussion of the curriculum, it was approved by the Faculty as presented.

The faculty of the College of Pharmacy recommends the following changes in its four year program in order to make the move to the Lexington campus smoother. It is to take effect with the entering group of September, 1957. In view of greater impending changes, the recommendations are held to a minimum.

1. The degree of Bachelor of Science in Pharmacy is offered on completion of a minimum of 138 credits including Military Science and Physical Education with a standing of 2.0. The College of Pharmacy will institute a five year program beginning with those entering in September, 1958.

Semester hour requirements appear to be increased (138 semester hours vs. 133 semester hours), but in reality are a decrease for those who take Military Science and Physical Education. It is a decrease for the good student.

2. Chem Cla. 3 hours; instead of Chem Ia, 5 hours, for those who are eligible to take it. This is subject to change after further study by the Chemistry Department of the College of Arts and Sciences.

3. Math 17. 3 hours, instead of Math 5, 5 hours, for those who are eligible to take it.

4. MM. 31a and b, change in course title to Biological Pharmaceuticals. No change in hours.

5. Pharmacy 22, Orientation, 2 hours, added.

6. Pharmacy 27, Introductory Dispensing. 4 hours, dropped.

7. Pharmacy 122a and b, change in course title to Modern Therapeutic Agents and change of number from Pharmacy 122 and 123.

8. Pharmacy 35. Pharmacy Law, 2 sem. hrs. instead of Pharmacy 35a and b, 3 sem. hours each.

9. M.M. 11a and b. Physiology and Pharmacodynamics, to 4 sem. hrs. each instead of 3 sem. hrs. each.

10. Military or Air Science added to second year.

11. Dropping of three electives:

Principles of Animal Biology. Zool. 1, 4 sem. hrs.
Hygiene and Public Health, M.M. 33, 2 sem. hrs.
Pharmaceutical Economics, Phar 25, 2 sem. hrs.

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No changes other than the Chemistry Cla have been made at this time, but we expect to have some recommendations when we offer the outline for the five-year program. These will be worked out in cooperation with the Chemistry Department of the College of Arts and Sciences.

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FRESHMAN YEAR

First Semester		Second Semester	
Chem Cla--General Chemistry	3	Chem 1b--General Chemistry	5
Eng 1a--English Composition	3	Eng 1b--English Composition	3
Phy 51a--Intro. to Physics	3	Phy 51b--Intro. to Physics	3
Math 17--College Algebra	3	Botany 1--General Botany	4
Military or Air Science	2	Math 18--Trigonometry	3
Physical Education	<u>1</u>	Military or Air Science	2
	15	Physical Education	<u>1</u>
			21

SOPHOMORE YEAR

Chem 31a--Organic Phar Chem	5	Chem 31b--Organic Phar Chem	5
MM 31a--Biological Pharmaceuticals	3	MM 31b--Biological Pharmaceuticals	3
Phar 22--Orientation	2	Phar 21--Theoretical Pharmacy	4
Phar 31--Drug Store Accounting	3	Phar 32--Drug Store Retailing	3
Phar 26--Phar Calculations	3	Chem 32--Inorganic Phar Chem	2
Military or Air Science	<u>2</u>	Military or Air Science	<u>2</u>
	18		19

JUNIOR YEAR

Chem 33--Quant Phar Chem	4	Chem 102--Biochemistry	4
MM 11a--Physiol. and Pharmacodynamics	4	MM 11b--Physiol. and Pharmacodynamics	4
MM 27a--Pharmacognosy	3	MM 27b--Pharmacognosy	3
Phar 24a--Pharmacy Preparations	<u>4</u>	Phar 24b--Pharmacy Preparations	4
	15	Phar 35--Pharmacy Law	<u>2</u>
			17

SENIOR YEAR

Chem 103--Drug Assay	4	Chem 104--Chemistry of Medicinal Products	3
MM 138a--Pharmacol and Toxicology	5	MM 138b--Pharmacol and Toxicology	5
Phar 111a--Dispensing Pharmacy	5	Phar 111b--Dispensing Pharmacy	5
Phar 122a--Modern Therapeutic Agents	3	Phar 122b--Modern Therapeutic Agents	3
	<u>17</u>		<u>16</u>

Elective:

Pharmacy 130--Manufacturing Pharmacy (3) (Juniors and Seniors only)

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Dean Spivey presented for the Graduate Council recommendations which were approved by the Faculty.

1. Listing Psychology 311a-h PRACTICUM IN COUNSELING PSYCHOLOGY as Education 311a-h. This dual listing has the approval both of the College of Education and the College of Arts and Sciences.

2. The Graduate Council recommends approval of graduate credit for the following courses, previously approved by the University Faculty for undergraduate credit:

English 113. THE AMERICAN NOVEL BEFORE 1900 (3)

Metallurgical Engineering 180. THE CASTING OF METALS (3).

Agricultural Engineering 120. AGRICULTURAL TRACTOR POWER (3)

Agricultural Engineering 121a. FARM BUILDINGS AND EQUIPMENT (4)

Agricultural Engineering 121b " " " " " " (3).

Agricultural Engineering 122a. SOIL AND WATER-CONSERVATION ENGINEERING (4)

Agricultural Engineering 122b. " " " " " " (3)

Agricultural Engineering 124. ELECTRICITY IN AGRICULTURE (3).

3. The Graduate Council recommends approval for the following strictly graduate courses:

Agr Engr 200a--c SEMINAR (0) I, II, S

Weekly meetings with members of the staff for reports and discussion on research and current trends and practices in agricultural engineering. One Class Hour.

Agr Engr 201 RESEARCH METHODS IN AGRICULTURAL ENGINEERING (3) I, II, S

A study of research techniques and methods used in agricultural engineering. Prereq or concurrent; Agr Econ 130 or equivalent

Agr Engr 202 INSTRUMENTATION IN AGRICULTURAL ENGINEERING RESEARCH (3) I, II

The principles and applications of measuring instruments and devices for obtaining experimental data. Prereq or concurrent: Agr Engr 201

Note: It is contemplated that candidates will be required to take Agr Engr 200, 201, and 202. Additional work in agricultural engineering must be selected to include a minimum of two other graduate courses, besides the thesis, at least one of which must be selected from the following:

Agr Engr 203 ADVANCED FARM MACHINERY (3) I, II

Analysis of agricultural machines, power units, and equipment with emphasis on functional design requirements, development procedures, safety requirements, and evaluation of performance. To be offered as a formal class or as a special problems course. Prereq: Agr Engr 120

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Agr Engr 204 ADVANCED FARM BUILDINGS AND EQUIPMENT (3) I, II

Analysis of selected problems dealing with such topics as rural housing, and the maintenance of desirable environments for farm animals and for the storage of farm products. To be offered as a formal class or as a special problems course. Prereq: Agr Engr 121a

Agr Engr 205 ADVANCED RURAL ELECTRIFICATION (3) I, II

Analytical study of selected topics associated with electricity in agriculture. To be offered as a formal class or as a special problems course. Prereq: Agr Engr 124 or equivalent.

Agr Engr 206 ADVANCED SOIL AND WATER CONSERVATION ENGINEERING (3) I, II

Analysis and solution of selected problems dealing with land improvement and the control and use of water for agricultural production, with emphasis on functional design requirements of water retarding, storage, and distribution systems. To be offered as a formal class or as a special problems course. Prereq: Agr Engr 122a or equivalent.

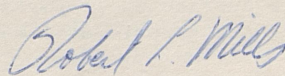
Agr Engr 207 ADVANCED AGRICULTURAL PROCESSING (3) I, II

Analytical study of engineering problems dealing with the handling and processing of Agricultural products, such as grading, sorting, drying and curing, and the preparation of plans for these operations. To be offered as a formal class or as a special problems course. Prereq: Agr Engr 121a and 124 or equivalent.

Agr Engr 500-1,2,3 THESIS (0) I, II, S

President Dickey welcomed Dean Willard of the College of Medicine, who was attending the University Faculty meeting for the first time.

The Faculty adjourned.



Robert L. Mills
Secretary