

Trade and Industrial Education

71	Trade Analysis	2
77	Shop Management Problems	2
78	Conference Leader Training	2
82	Instructional Material in Industrial Education	2
83	Principles of Trade Teaching	2
123	Vocational Guidance	2
134	Organization and Operation of Part-time and Evening Classes	2
136	Surveys in Industrial Education	2
137	Special Problems in Industrial Education	2
143	Modern Industrial Analysis	2
171a,b	Principles and Philosophy of Industrial Education	2 each
183a,b	Methods in Industrial Education	2 each

Vocational Education

211	The Administration of Vocational Education	3
282	Special Problems in Vocational Education	3

Requirements for graduation:

1. 128 semester hours
2. A standing of at least 1.0
3. The completion of the curriculum required in the areas, majors, and minors set forth in the catalog.

The Faculty was adjourned.

Maurice F. Seay
Maurice F. Seay
Secretary

MINUTES OF THE UNIVERSITY FACULTY
DECEMBER 8, 1947

The University Faculty met in the Assembly Room of Lafferty Hall Monday, December 8, at 4:00 p.m. President Donovan presided. Members absent were Thomas P. Cooper, W. C. Eaton, J. S. Horine, W. M. Insko, M. Jongeward, Earl P. Slone, and Claude Sprowles.

The minutes of November 10 were read and approved.

Dean Seay announced to the Faculty that because of delay in the printing of the schedule of classes for the Winter Quarter, the deans of the colleges had agreed that there would be no pre-classification of students and that an additional day would be needed at the opening of the quarter to complete this work. The Faculty approved a motion that one day be added to the classification period and that classes start on Thursday, January 8, instead of Wednesday, January 7.

Dr. Chamberlain stated that the changed calendar for the 1948 summer session had raised certain questions which had not been officially answered and he submitted the following proposals, which were approved by the Faculty:

1. Class periods in the new eight weeks summer session will all be 50 minutes in length, as during the regular school year.
2. The daily schedule will start at 7 a.m. The first hour will begin at 7; the second at 8, et cetera. Classes shall be distributed as evenly as possible over the 5 morning hours. Classes may be offered from 12 to 1 p.m. (The sixth hour), or in the afternoon whenever such classes are deemed desirable. However, no classes shall be scheduled after 1 p.m. on Saturdays.
3. A three-semester-hour course shall meet six periods a week and other courses correspondingly.

In connection with the above proposals, Dr. Brady, Head of the Department of English, requested permission to schedule some afternoon classes in the summer session on a 60 minute basis. This request was approved.

Dean Seay reported that a special committee to study the proposals which were presented at the November meeting by the College of Agriculture and Home Economics has been appointed, with himself as chairman. In view of the fact, however, that the College had revised its proposal and Dean White had withdrawn his objections, the committee had not needed to take any action.

A mimeographed list of student organizations, with the faculty advisors, was distributed to the faculty, in accordance with the Faculty Rule. The list is as follows:

UNIVERSITY OF KENTUCKY STUDENT ORGANIZATIONS
1947-48

<u>Organization</u>	<u>Status</u>	<u>Faculty Adviser or Other Responsible Person</u>
<u>HONOR SOCIETIES</u>		
Alpha Lambda Delta	Active	Jeanette Graves
Alpha Zeta	Active	Lawrence A. Bradford
Beta Gamma Sigma	Active	W. E. Beals
Kappa Delta Pi	Active	Margaret Bell Humphrey
Order of the Coif	Active	Frank H. Randall
Phi Beta Kappa	Active	C. B. Crawley
Phi Eta Sigma	Active	M. M. White
Sigma Pi Sigma	Active	C. B. Crawley
Tau Beta Pi	Active	A. J. Meyer
<u>LEADERSHIP SOCIETIES</u>		
Cwens	Active	Mrs. John Flesche
Mortar Board	Active	Ann Odor
Omicron Delta Kappa	Active	A. D. Kirwan

LEADERSHIP SOCIETIES CON'D

Lamp and Cross	Active	Thomson R. Bryant
Lances	Active	W. S. Ward
Keys	Active	C. E. Carpenter

RECOGNITION SOCIETIES

Chi Delta Phi	Active	Jane Haselden
Eta Kappa Nu	Active	H. A. Romanowitz
Phi Alpha Theta	Inactive	No report
Phi Upsilon Omicron	Active	Mary C. Wooldridge
Pi Mu Epsilon	Active	D. E. South
Pi Sigma Alpha	Inactive	No report
Pi Tau Sigma	Active	E. B. Penrod
Sigma Gamma Epsilon	Active	W. R. Brown
Theta Sigma Phi	Active	Marguerite McLaughlin

PROFESSIONAL SOCIETIES

Alpha Chi Sigma	Active	J. R. Meadow
Block and Bridle	Active	W. P. Garrigus
Pershing Rifles	Active	Lt. Col. G. P. Lerner
Phi Alpha Delta	Active	W. L. Matthews, Jr.
Phi Beta	Active	Revell Shaw
Phi Delta Kappa	Active	Ellis Hartford
Phi Delta Phi	Active	Paul Oberst
Phi Mu Alpha	Active	Alexander Capurso
Phi Sigma Iota	Active	Hobart Ryland
Scabbard and Blade	Active	Donald Glenn

CLUBS AND SOCIETIES

Accounting Club	Active	R. D. Haun
Agronomy Club	Active	E. N. Fergus
Alma Magna Mater	Active	Helen King
American Chemical Society	Active	James A. Watson
American Institute of Mining and Metallurgical Engineers	Active	C. S. Crouse
American Institute of Electrical Engineers	Active	Brinkley Barnett
American Society of Civil Engineers	Active	A. L. Chambers
American Society of Mechan- ical Engineers	Active	W. M. Carter
Art Club	Active	Raymond Barnhart
Association of Independent Students	Active	W. L. Matthews
Bacteriological Society	Active	Margaret Hotchkiss
Baptist Student Union	Active	Rhea A. Tahlor
Business Education Club	Active	John Hoover
Campus League of Women Voters	Active	Gladys M. Kammerer
Canterbury Club	Active	C. S. Crouse
College Chamber of Commerce	Active	Merrill DeVoe
Cosmopolitan Club	Active	Carolyn Spicer and Bart Peak

CLUBS AND SOCIETIES CONT'D

Cub Club	Inactive	Marguerite McLaughlin
Dairy Club	Active	Fordyce Ely
Delta Pi Epsilon	Active	Ruth Thomas
Dutch Lunch Club	Active	Carolyn Spicer
Future Teachers of America	Active	E. F. Hartford
German Club	Active	Anna F. Odor
Harlan County Club	Active	No report
Home Economics Club	Active	Elizabeth Helton
Hort Club	Inactive	A. J. Olney
Intercollegiate Zionist Federation of America	Active	No report
International Relations Club	Active	Alexander Edelmann
K-Club	Inactive	Joe Atkinson
Newman Club	Active	Paul Oberst
Outing Club	Active	Dorothy H. Evans
Paterson Literary Society	Inactive	No report
Phalanx Fraternity	Active	Bart N. Peak
Philosophy Club	Active	John Kuiper
Pitkin Club	Active	E. N. Fergus
Poultry Club	Active	E. T. Wightman
Press Club	Inactive	Niel Plummer
Pryor Premedical Society	Active	James W. Archdeacon
Tau Sigma	Active	Revell Shaw
University 4-H Club	Active	J. W. Whitehouse
White Mathematics Club	Active	Virginia Baskett
Veterans Club	Active	Lysle W. Croft and Thomas D. Clark

ADMINISTRATIVE AND SERVICE ORGANIZATIONS

Agricultural Council	Active	L. H. Townsend
Debate and Oratory	Inactive	No report
Guignol	Active	W. N. Briggs
House President's Council	Active	Margaret Storey
Inter-Fraternity Council	Active	A. D. Kirwan
Men's Glee Club	Active	Aimo Kiviniemi
Student Bar Association	Active	Alvin E. Evans
Student Government Association	Active	W. S. Ward
Student Union Board	Active	A. E. Bigge and James Calvin
Suky	Active	Rhea A. Taylor
University Choristers	Active	Mildred S. Lewis
University of Kentucky Band	Active	Frank J. Prindl
University of Kentucky Symphony Orchestra	Active	Alexander Capurso
University of Kentucky Troupers	Active	Bernard M. Johnson
Women's Administrative Council	Active	Dorothy Evans
Women's Athletics Association	Active	Nancy French Murray

ADMINISTRATIVE AND SER-
VICE ORGANIZATIONS CON'D

Women's Glee Club	Active	Mildred S. Lewis
Women's Panhellenic Association	Active	Jane Haselden
Y.M.C.A.	Active	Bart N. Peak
Y.W.C.A.	Active	Carolyn Spicer

Dean Holmes, chairman of the Committee on Student Organizations, presented recommendations from the committee that the following organizations be given official recognition:

Air Reserve Association
Alpha Zeta Omega Fraternity (national pharmaceutical)
Gamma Theta Upsilon, national geography fraternity
Phi Epsilon Phi, national botanical fraternity
Sociology Club

The Faculty voted approval of the organizations as recommended. The committee also presented a request from the Interfraternity Council for approval of its constitution. Upon motion, duly seconded, the Faculty voted that this constitution be mimeographed and sent to members of the Faculty two weeks prior to the January meeting, at which time action would be taken.

Dean White presented for the College of Arts and Sciences the following proposals for conversion of credits to the semester basis, changes in courses, and new courses:

Proposed Conversion of Credits to the Semester Basis,
Changes in Course Titles and Numbers, and Proposed New Courses for
The Division of Biological Sciences

DEPARTMENT OF ANATOMY AND PHYSIOLOGY

		Quarter Hours	Semester Credits
1a,b	General Physiology (4 each)	8	dropped
*2	Elementary Anatomy and Physiology	5	3
3	Physiology	5	dropped
4	Elementary Anatomy	5	5
5	Elementary Physiology	5	3
6a,b	General Anatomy and Physiology for Nurses (from 4 to 3 each)	8	6
103a-d	Independent Work in Anatomy (from 4 to 3 each)	16	12
104a-d	Independent Work in Physiology (from 4 to 3 each)	16	12
105	Architecture of the Human Skeleton	5	4
106	Introduction to Endocrinology	4	3
107	Advanced Anatomy (change title to "Comparative Neuro-Physiology")	5	4
108a-c	Advanced Physiology (4 each)	12	dropped
109	Application of Physical Principles to the Human Body (change title to "Cellular Physiology")	4	3
116a,b	Seminar in Anatomy and Physiology (1 each)	2	2
116c	Seminar in Anatomy and Physiology	1	dropped
201a-i	Research in Physiology (from 6 to 3 each)	54	27

Department of Anatomy and Physiology-con'd

New courses:

- 10 General Physiology 5
This course arranged for students majoring in the natural sciences; develops the study of the various systems of the human body comparatively with that of lower animal as well as plant life. Physical and chemical fundamentals emphasized. Lecture and recitation, 3 hours; laboratory, 4 hours. Not available for credit to students who have A&P 5. Prerequisite: Chemistry 1a,b; Physics 1a,b. Physics may be taken concurrently.
- 110 Intermediate Metabolism 3
The energy aspects of metabolism are emphasized. The student is introduced to methods of determining body and tissue metabolism. Detailed study of the intermediate metabolism of carbohydrates, proteins, and fats is made. Role of vitamins in oxidation-reduction enzyme systems is considered. Lecture, 2 hours; laboratory, 2 hours. Prerequisite: A&P 10 or equivalent; Physics; Organic Chemistry.
- 202 Physiological Techniques 2
Training in some techniques used in physiological research. Operational procedures, such as are used in gastrointestinal, hemodynamic, and respiratory physiology are undertaken; also those under aseptic conditions. Laboratory, 4 hours. Prerequisite: A&P 10 or equivalent.
- 203 Experimental Endocrinology 2
Abnormalities of the various endocrine glands are produced experimentally. Laboratory, 4 hours; Prerequisite: A&P 106.
- 204 Graduate Seminar in Anatomy and Physiology 1
Required of all graduate students. Discussion period, 1 hour.

TOTALS: 155 97

DEPARTMENT OF BACTERIOLOGY		Quarter	Semester
		Hours	Credits
2a	Elementary Microbiology	6	4
2b	Elementary Microbiology	6	4
6a	Bacteriology and Pathology for Nurses (change title to "Bacteriology for Nurses")	4	4
6b	Bacteriology and Pathology for Nurses (change title to "Pathology for Nurses")	4	2
52	Principles of Bacteriology	6	4
56(a)	Bacteriology of Foods (for Sophomores)	4	4
56 b	Bacteriology of Foods	4	dropped
57(a)	Bacteriology of Water and Sewage (for Sophomores)	4	4
57b	Bacteriology of Water and Sewage	2	dropped

Department of Bacteriology con'd

102	General Bacteriology	6	4
103	Pathogenic Bacteriology	6	4
104	Applied Bacteriology	3	2
110a	Laboratory Diagnosis	3	3
110b	Laboratory Diagnosis	3	3
110c	Laboratory Diagnosis	3	dropped
111	General Pathology	6	4
115a-d	Individual Work (from 4 to 3 each)	16	12
120a	Hospital Laboratory Practice	6	4
120b	Hospital Laboratory Practice	4	6
120c	Hospital Laboratory Practice	5	dropped
125(a)	Immunology and Serology	5	5
125b	Immunology and Serology	3	dropped
150a-d	Seminar (1 each)	4	4
201a-d	Research in Bacteriology (5 each)	20	20
203a	Public Health Bacteriology	5	3
203b	Public Health Bacteriology	5	3
206(a)	Bacteriology of Foods	4	4
206b	Bacteriology of Foods	4	dropped
207	Bacteriology of Water and Sewage	6	4
210	Clinical Mycology	3	2
220	History of Bacteriology	2	2
222	Advanced General Bacteriology	6	4
224	Disinfectants and Antibiotics	5	3
226a	Metabolism of Microorganisms	6	4
226b	Metabolism of Microorganisms	6	4
235	Immunochemistry and Advanced Immunology	6	4
250a-f	Seminar (1 each)	6	6
270	Electron Microscopy	4	3
272	Viruses and Rickettsiae	6	4
TOTALS		207	147

DEPARTMENT OF BOTANY

		Quarter Hours	Semester Credits
*1a	General Botany	4	3
*1b	General Botany	4	3
*8a	Introduction to Botany	4	dropped
*8b	Introduction to Botany	4	dropped
15	Local Flora (Systematic Botany)	5	3
19	Dendrology	3	2
*25	General Plant Biology	5	3
30 or			
130	Introduction to Cytogenetics	4	3
31 or			
131	Cytological Technique	2	dropped
34 or			
134	Cytogenetics	5	4
103a	Plant Physiology	4	3
103b	Plant Physiology	4	3
106a-c	Special Problems (from 5 to 3 each)	15	9

Department of Botany con'd

		Quarter Hours	Semester Credits
106d	Special Problems	5	dropped
107	Morphology of Algae	4	3
114	Ecology	5	4
115a,b	Seminar (1 each)	2	2
115c	Seminar	1	dropped
124	Anatomy of Vascular Plants	4	dropped
125a,b	Morphology of the Fungi (4 each)	8	8
125c	Morphology of the Fungi	4	dropped
126a,b	Mycology (5 each)	10	dropped
132	Genes and Their Action	4	3
135	Plant Cytotaxonomy	4	3
150a,b	Advanced Systematic Botany (from 5 to 3 each)	10	6
160	Plant Microtechnique	4	3
206a,b	Research in Plant Morphology (from 5 to 4 each)	10	8
207a,b	Research in Mycology (from 5 to 4 each)	10	8
210a,b	Research in Plant Physiology (from 5 to 4 each)	10	8
213a,b	Research in Systematic Botany (from 5 to 4 each)	10	8
213c	Research in Systematic Botany	5	dropped
214	Problems in Plant Pigmentation	4	dropped
215a,b	Research in Cytogenetics (4 each)	8	8
215c	Research in Cytogenetics	4	dropped
TOTALS:		179	108

DEPARTMENT OF HYGIENE AND PUBLIC HEALTH

*1	Personal and Community Health	2	1
*7	First Aid	3	2
51	Personal Health Problems	3	2
100a	Public Health	4	3
100b	Public Health	4	3
104	Maternal and Child Health	3	2
105	Ward Teaching	3	dropped
106	Advanced Medical Nursing	3	dropped
110	Health Education	4	3
111a-d	Independent Work (4 each)	16	12
115	Communicable Diseases	4	3
118	Vital Statistics	4	3
120a	Mental Hygiene	4	3
120b	Mental Hygiene Observation	4	3
122	School and Community Health	3	2
124a	Public Health Nursing	4	dropped
124b	Public Health Nursing	4	dropped
125a	County Health Practice for Nurses	3	dropped
125b	County Health Practice for Nurses	4	dropped
125c	County Health Practice for Nurses	4	dropped
125d	County Health Practice for Nurses	4	dropped
125e	County Health Practice for Nurses	4	dropped
130	Deficiency Diseases and Nutrition	3	dropped

Department of Hygiene and Public Health con'd

		Quarter Hours	Semester Credits
150a	Problems in Health Education	3	2
150b	Problems in Health Education	3	2
200	Epidemiology	4	3
203	Public Health Records	3	2
204	Maternal and Child Health	3	2
212a	Public Health Administration	4	3
212b	Public Health Administration	3	2
218a	Vital Statistics	4	3
218b	Vital Statistics	3	2
220	Mental Hygiene	3	2
225a	County Health Practice for Health Officers	4	3
225b	County Health Practice for Health Officers	3	2
290	Seminar	2	1
	<u>Change in Title</u>		
*9	Hygiene for Teachers	3	
	changed to		
	Fundamentals of Health		2
	TOTALS:	139	73

DEPARTMENT OF PHYSICAL EDUCATION

Service Courses

	<u>Change in title:</u>		
1	Sports Skills and Physical Fitness (change to "Orientation")	0	0
	<u>Change in number:</u>		
2	Tap Dancing - to 23	0	0
4	Handball - to 13	0	0
5	Basketball - to 6	0	0
6	Wrestling - to 30	0	0
7	Golf - to 11	0	0
9	Softball - to 20	0	0
11	Tennis - to 24	0	0
12	Touch Football - to 26	0	0
13	Fencing - to 9	0	0
14	Volleyball - to 28	0	0
16	Soccer - to 19	0	0
17	Hockey - to 14	0	0
18	Archery - to 4	0	0
19	Folk Dancing - to 10	0	0
20	Badminton - to 5	0	0
22	Bowling - to 8	0	0
27	Modern Dance - to 17	0	0
28	Horseback Riding - to 15	0	0
29	Advanced Modern Dance - to 18	0	0

Department of Physical Education con'd

	<u>Quarter Hours</u>	<u>Semester Credits</u>
<u>Change in title and number:</u>		
15 Apparatus and Tumbling (change to 3 - "Apparatus and Tumbling for Men")	0	0
25a-f Individual Physical Education (change to 2 - "Adapted Physical Education")	0	0
<u>New courses:</u>		
7 Advanced Basketball A course for skilled players. Open to those students who earned a letter in high school basketball. For men only.		1
12 Advanced Golf Open to men and women students. Prerequisite: P.E. 11 or equivalent. Activity fee.		1
16 Horsemanship Instruction in jumping and showmanship. Prerequisite: P.E. 15 or equivalent.		1
21 Swimming for Beginners For non-swimmers who wish to learn to swim and dive.		0
22 Advanced Swimming Instruction in the perfection of all strokes and in diving. Prerequisite: P.E. 21 or equivalent.		1
25 Advanced Tennis This course provides an opportunity for skilled players to compete. Prerequisite: P.E. 23 or equivalent.		1
27 Tumbling for Women Beginning tumbling for women.		0
29 Weightlifting and Conditioning A general conditioning course including the use of bar bells, wall weights, medicine balls, and bag punching. Especially desirable for those students with underdeveloped physiques. Men failing the P.F.I. test in P.E. 1 are assigned to this course.		0
31 Group Games A comprehensive course in learning the skills and in the teaching methods of low organized games. Designed primarily for students in the College of Agriculture and Home Economics, but open to all.		0

Professional Courses

<u>Change in title:</u>		
142 Advanced Football (change to "Coaching Advanced Football")	3	2

Department of Physical Education con'd

		Quarter Hours	Semester Credits
	(Professional Courses Con'd)		
	<u>Change in number:</u>		
33	Football Coaching Fundamentals - to 42	3	2
34	Basketball Coaching Fundamentals - to 41	3	2
42	Physical Education in Elementary Schools - to 60	5	3
55	Technique and Procedure of the Dance -to 91	3	3
60a,b	Tutorial Work in Physical Education - to 62a,b (1 each)	2	2
60c	Tutorial Work in Physical Education	1	dropped
115	History and Survey of the Dance - to 190	4	3
120a	Kinesiology - to 172	3	3
123	History and Principles of Physical Education - to 143	5	3
125	Organization and Administration of Recreation - to 180	4	3
129	Physical Education in the Secondary School - to 144	4	3
149	Organization and Administration of Physical Education - to 140	4	3
200	Graduate Seminar in Physical Education - to 240	3	2
	<u>Change in title and number:</u>		
30	Calisthenics, Apparatus and Tumbling (Change to 56 - "Gymnastics for Men")	3	3
31	Sports and Games (change to 45 - "Team Sports for Men")	3	2
32	Rhythmical Activities (change to 90 - "Folk, Tap, and Social Dancing")	3	3
35	Track and Baseball Coaching Fundamentals (change to 43 - "Track and Field Coaching Fundamentals")	3	3
36	Field Sports for Women (change to 46 - "Fall Team Sports for Women")	3	3
37	Basketball and Volleyball Coaching Funda- mentals for Women (change to 47 - Spring Team Sports for Women")	3	3
38	Golf and Tennis (change to 49 - "Individual Sports for Women")	3	2
120b	Kinesiology (change to 173 - "Remedial Physical Education")	3	2
126	The Operation and Function of Playgrounds and Community Center Recreation (change to 80 - "Recreation Leadership")	3	2
131	Advanced Basketball (change to 141 - "Coaching Advanced Basketball")	3	2
151	Organization of Intramural Sports (change to 182 - "Intramural Sports")	3	2
201a	Research in Physical Education (change to 145 - "Introduction to Tests and Measurements")	4	3
201b	Research in Physical Education (change to 244 - "Tests and Measurements in Health and Physical Education")	4	3

Department of Physical Education con'd

		Quarter Hours	Semester Credits
202	Problems Course in Contemporary Movements in Physical Education (change to 242 - "Problems Course in Physical Education")	4	3
203	Current Studies in the Administration of Physical Education (change to 241 - "Current Studies and Trends in Health and Physical Education")	3	3
204	Current Studies in the Administration of Athletics (change to 243 - "Problems in the Ad- ministration of Athletics")	3	2
<u>New courses:</u>			
40	Professional Orientation Survey of and introduction to the field of health, physical education and recreation. The qualifications of each student are measured in an effort to judge his suitability as a future professional person. Two hours per week. Required of all students the first fall semester enrolled in the University as a major in P.E.		1
44	Baseball and Softball Coaching Fundamentals Theory and practice in coaching fundamentals involved in baseball and softball. Laboratory, 6 hours per week.		3
48	Individual Sports for Men Theory and practice in the techniques and teaching procedures of golf, tennis, handball, bait and fly casting, and gunmanship. Four hours per week.		2
50	Equitation The techniques of horsemanship and methods of instruction. Laboratory, 4 hours. Prerequisite: P.E. 28 or equivalent.		2
51	Co-Recreational Activities Theory and practice in the techniques and teaching procedures of archery, badminton, and bowling. Laboratory, 6 hours per week.		3
52	Advanced Swimming and Diving for Men The techniques and methods of teaching swim- ming, springboard diving, officiating and con- ducting meets, games, pageants, and carnivals. Laboratory, 4 hours per week. Prerequisite: Satisfactory completion of the University swim- ming test, P.E. 30, or hold a Life Saving Certificate.		2

Department of Physical Education con'd

		<u>Quarter Hours</u>	<u>Semester Credits</u>
53	Advnaced Swimming and Diving for Women The techniques and methods of teaching swimming, diving, officiation and conducting meets, games, pageants, and carnivals. Laboratory, 4 hours per week. Prerequisite: Passing the University swimming test, P.E. 30, or a Life Saving Certificate.		2
54	Life Saving for Men The technique of life-saving, leading to the senior's and instructor's certificate, American Red Cross, and knowledge of the principles of water safety. Laboratory, 2 hours. Prerequisite: P.E. 21 or 52, or ability to swim 440 yards.		1
55	Life Saving for Women Theory and practice in Red Cross Life Saving in preparation for an instructor's rating or senior certificate. Advanced diving theory and practice including teaching and coaching methods. Laboratory, 2 hours. Prerequisite: P.E. 21 or 53, or ability to swim 440 yards.		1
57	Gymnastics for Women Theory and practice of various systems of Calisthenics, including the German and Swedish. Demonstration and practice of the fundamentals of tumbling, pyramid building, and exercises on the various pieces of gymnasium apparatus. Six hours per week.		3
58	Sports Officiating for Men Theory and practice of sports officiating. Officiating in college intramurals and high school athletics will be required. Laboratory, 2 hours. Prerequisite: Upper division standing.		1
59	Sports Officiating for Women Instruction and practice in officiating sports, including the interpretation of rules. Preparation for Women's National Official's rating in athletics. Laboratory, 2 hours per week.		1
61	Field Trip Visitation and inspection of physical education and recreation plants and programs. Cost to student, between \$5 and \$10.		0
70	Training and First Aid Principles and practice in the techniques of training and first aid, massage, taping, therapy and bandaging available to the coach and teacher for prevention and care of injuries and sudden illnesses. Administration of training room and training table. American Red Cross certificate awarded to all students who successfully complete course. Two hours lecture, demonstration and practice.		2

Department of Physical Education con'd

		<u>Quarter Hours</u>	<u>Semester Credits</u>
81	Camp Leadership Designed for the training of camp administrators and counselors. Lecture, one hour; laboratory, two hours per week.		2
165	Safety in Physical Education Designed to prepare majors to teach safety education or to serve as a school safety co-ordinator. Provides a knowledge of all common areas of safety education but emphasizes safety in athletics, physical education, and recreation.		2
174	Techniques of Rehabilitation A practical course in rehabilitation techniques employed in hospitals and rehabilitation centers. Emphasis is upon the use of play and recreation as therapy for the mentally ill, handicapped, and those recuperating from temporary impairment. Laboratory, four hours per week. Prerequisite: P.E. 173 or equivalent.		2
181	Camping in Education Purpose, history, organization, and conduct of camps of various types. Prerequisite: P.E. 81 or equivalent.		2
191	Rhythmical Form and Analysis A functional study of rhythms presented in relation to movement. The employment of percussion instruments and musical accompaniment for dance. Open to male students. Lecture, one hour; laboratory, two hours per week.		2
192	Dance Composition Creative composing in dance choreography and program planning. Directing, staging, costuming of dance production to be presented formally by the student. Open to male students. Lecture and recitation, two hours; laboratory, four hours per week. Prerequisite: Physical Education 55.		4
280	Problems in Recreation A study of the cause and content of current problems in recreation. Formation of policies and consideration of research projects which would aid in the solution of these problems. Lecture and recitation, two hours. Prerequisite: P.E. 125 or consent of the instructor.		2
290	Dance and Education The function of dance in the educational curriculum on the elementary, secondary and college levels including teacher training and administrative problems. Prerequisite: P.E. 91 or equivalent.		3
TOTALS:		<u>98</u>	<u>124</u>

DEPARTMENT OF PSYCHOLOGY

		Quarter Hours	Semester Credits
*1	Introduction to Psychology	6	dropped
*2	Applied Psychology	4	dropped
5	Psychology, Advertising and Selling	4	3
*6	Personality	4	dropped
7	Psychology of the Child	4	3
8	Individual Differences	4	3
101	Practice in Testing: Intelligence Tests	3	3
102	Practice in Testing: Personality Tests	3	2
103	Practice in Testing: Aptitude and Trade Tests	3	3
104	Social Psychology	4	3
105	Employment Psychology	4	3
106	Industrial Psychology	4	3
113	Psychology of Learning	3	4
114	Abnormal Psychology	4	3
115	Genetic Psychology	4	3
116	Animal Behavior	5	4
120a-d	Independent Work in Psychology (3 each)	12	8
121	Student Personnel	4	3
124	Mental Hygiene	4	3
125	Experimental Child Study	4	3
126	Mental Hygiene Observation	4	3
201a-h	Seminar in Psychology (1 each)	8	8
203a-h	Problems in Psychology (3 each)	24	16
210a-h	Research in Psychology (5 each)	40	24
211	Mental Work and Fatigue	4	3
212	The Emotions	5	3
213	The Observation Process	5	3
215	Psychometrics	5	3
217	Psychology of Language	4	2
219	Clinical Psychology	5	4
230	Personality Theory	4	3
236	Occupational Information	4	dropped
237	Clinical Testing	3	2
238	The Rorschach Test	6	4
239	The Thematic Apperception Test	3	2
240	Therapeutic Procedures	4	3
241	Motivation	4	2
245	Advanced Abnormal Psychology	4	3
300	Medical Therapeutic Procedures	1	1
431a-p	Special Field Practicum (3 each)	48	32
<u>Combined Courses</u>			
108	Experimental Psychology (Combination of 109 and 110, 3 quarter hours each)		4
222	Systems of Psychology and Their History (Combination of 220 and 221, 3 quarter hours each)		3
<u>New Courses</u>			
*1a	Introduction to Psychology		3
*1b	Introduction to Psychology		3

Psychology - con'd

		<u>Quarter Hours</u>	<u>Semester Credits</u>
<u>New Courses - con'd</u>			
117	Biology of Motivation Fundamental activating and goal-seeking processes of living organisms, biologically considered, including experimental and theoretical studies on such topics as instincts, drives, motives, appetites, and taste preferences.		2
214	Theories of Learning An examination of theories which attempt to explain the processes of learning and memory. The principal types of theories examined are the behavior theories and the field theories; other views are discussed as variations of these. Theories are evaluated in terms of their capacity to explain existing experimental data and to predict outcomes where no experimental observations have been made. Lecture, two hours; laboratory, two hours. Prerequisite: Psychology 113 or equivalent.		3
234a	Principles of Test Construction A survey of the principles involved in different types of standardized tests, followed by the construction of an original test by the student. This test is administered by the student to an adequate sampling of the appropriate population group. The student then is to carry through an item analysis and other evaluations of the content of the preliminary form of his test. Recommended for those preparing for personnel administration and research in business and industry. Prerequisite: Psychology 215.		3
234b	Test Standardization A continuation of Psychology 234a. The student will administer a revised form of his preliminary test, as prepared in Psychology 234a, to an adequate sampling of the population and will utilize all pertinent statistical techniques in determining the reliability, validity and other characteristics of his test. Prerequisite: Psychology 234a.		3
250	The Rorschach Test: Advanced Course In this course emphasis will be placed on the interpretation of a wide range of normal and pathological Rorschach records. Prerequisite: Psychology 238.		3
300a	Medical Therapeutic Procedure This course presents the rationale, indications, procedures, and results of four important psychiatric therapeutic methods: (1) electrical		1

Psychology - con'd

		Quarter Hours	Semester Credits
	and pharmacological shock, (2) narcohypnosis of drug-analytic method, (3) malaria and other types of fever therapy, and (4) pre-frontal lobotomy. Opportunity for a demonstration of these procedures will be provided, and this will be followed by a discussion and interpretation of the results in the light of the total personality picture presented by the patient.		
300b	Medical Therapeutic Procedure This course presents the history, rationale, indications, procedures, and results of psycho-therapeutic methods.		1

New Courses Proposed for the Winter Quarter, 1948

300b	Medical Therapeutic Procedure This course follows the same plan as Psychology 300. The methods presented are (1) malaria and other forms of fever therapy and (2) prefrontal lobotomy.	1	dropped
250	The Rorschach Test: Advanced Course In this course emphasis will be placed on the interpretation of a wide range of normal and pathological Rorschach records. Pre-requisite: Psychology 238.	4	dropped

New Course Proposed for the Spring Quarter, 1948

300c	Medical Therapeutic Procedure This course presents the history, rationale, indications, procedures, and results of psycho-therapeutic methods.	1	dropped
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TOTALS:	278	207
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DEPARTMENT OF ZOOLOGY

*1a	General Zoology	4	4
*1b	General Zoology	4	4
*1c	General Zoology	4	dropped
7a	Comparative Anatomy (Invertebrate)	3	4
7b	Comparative Anatomy (Vertebrate)	6	4
7c	Comparative Anatomy	6	dropped
11	Nature Study	4	3
101a	Histology	4	3
101b	Histology (Organology)	4	3
102	Ornithology	4	3
103a	General Entomology	4	3
103b	General Entomology	4	3

Department of Zoology - con'd

		Quarter Hours	Semester Credits
105	Parasitology	5	3
106	Embryology	6	4
108a	Principles of Zoology (Evolution)	3	2
108b	Principles of Zoology (Heredity)	3	2
109	Animal Ecology and Field Biology	3	2
110a-f	Independent Work (from 4 to 3 each)	24	18
112	Ichthyology	4	3
114a-d	Zoological Seminar (1 each)	4	4
115a	Advanced Parasitology (Protozoology)	4	3
115b	Advanced Parasitology (Helminthology)	4	3
115c	Advanced Parasitology (Medical Entomology)	4	3
157a	Invertebrate Anatomy	3	4
157b	Vertebrate Anatomy	6	4
157c	Vertebrate Anatomy	6	dropped
160	Ontogeny	3	dropped
166	Physiology of Development	3	2
168	Biology of Sex	3	2
210a-c	Zoological Problems (Research) (from 4 to 3 each)	12	9
TOTALS:		151	102

College of Arts and Sciences

DEPARTMENT OF ANCIENT LANGUAGES

Courses to be added:

(To be given under Quarter Plan and later under Semester Plan.)

- A.L. 18 PLAUTUS (3 quarter hours to become 3 semester credits)
Selected plays of Plautus. Lectures on Greek and Roman Comedy. Introduction to the comedy of manners. Prerequisite: A.L. 3 or 4 or consent of instructor.
- A.L. 70 GREEK MYTHOLOGY (3 quarter hours to become 2 semester credits)
The Greek myths studied both from the standpoint of their meaning to the Greeks and Romans and from the standpoint of their use in later literature and in everyday life. No knowledge of Latin or Greek required.

(To be given under the Semester Plan.)

- A.L. 17 MEDIEVAL LATIN (3)
Selections of prose and poetry down to the Renaissance. Introduction to the thought and life of the Middle Ages. Prerequisite: A.L. 3 or 4 or consent of instructor.
- A.L. 114a,b LATIN COMPOSITION (1,1)
The writing of Latin prose of moderate difficulty. Prerequisite: A.L. 3 or consent of instructor.
- A.L. 156 GREEK TRAGEDY (3)
Selected plays from Aeschylus, Sophocles, and Euripides. Lectures on Greek Tragedy and its effects on the Western World.

Department of Ancient Languages - con'd

Prerequisite: A.L. 53 or 54 or consent of instructor.

A.L. 157 GREEK COMEDY (3)

Selected plays of Aristophanes. Lectures on Greek Comedy and its effect on the Western World. Prerequisite: A.L. 156 or consent of instructor.

A.L. 200 RESEARCH IN THE TEACHING OF CLASSICAL LANGUAGES (3)

Individual problems in the teaching of Latin and/or Greek will be assigned. Research may be done with reference to secondary and/or higher education in methods, in preparation of materials, in the development of curricula, in the place of classical study in education, or in the history of the field. Prerequisite: A.L. 150 or equivalent.

A.L. 202 THE WORKS OF VIRGIL (3)

A careful study of the entire Aeneid with emphasis upon the last six books and upon the relation of the Aeneid to its sources and the other works of Vergil. Prerequisite: A.L. 4 or consent of instructor.

A.L. 203 ROMAN COMEDY (3)

Several plays of Plautus and/or Terence. A history of comedy. The subsequent development of comedy. Introduction to Old Latin. Prerequisite: A.L. 18 or consent of instructor.

A.L. 204 THE GREEK OF THE NEW TESTAMENT (3)

Class and/or individual work to suit the needs of the students. Considerable portions of the New Testament will be read. Individual research in the vocabulary and syntax of the Koine, in the text of the Testament, and in other fields to suit the needs of the student. Prerequisite: Two years of college Greek or consent of instructor.

Courses to be dropped:

A.L. 201a,b LATIN ELEGIAC POETRY (3,3)

Total semester credits added - 28

Total quarter hours dropped -- 9

The DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE requests approval of the following conversion of credits.

	Quarter Hours	Semester Credits
English 3a HISTORY OF ENGLISH LITERATURE	3	3
English 3b HISTORY OF ENGLISH LITERATURE	3	3
English 3c HISTORY OF ENGLISH LITERATURE	3	dropped

DEPARTMENT OF ART

		(correction) p.2	
		Quarter	Semester
		Hours	Credits
*A	Intro. to the Humanities - Art	3	2
10a	Public School Art	3	2
10b	Public School Art	3	2
29	Art in Advertising	3	2
*30a	Introduction to Art	2	2
*30b	Introduction to Art	2	2
*30c	Introduction to Art	2	dropped
35	Ancient Art	3	2
36	Medieval Art	3	2
46	The Decorative Arts	3	2
*51a	Painting and Drawing##	3	2
*51b	Painting and Drawing##	3	2
*61a	Elementary Drawing	4	3
*61b	Elementary Drawing	4	3
*62	Basic Design	4	3
63(a)	Advanced Drawing (change number to 63)	4	2
63b	Advanced Drawing	4	dropped
64a	Intermediate Design	4	3
64b	Intermediate Design	4	3
65a	Painting	4	3
65b	Painting	4	3
65c	Painting	4	dropped
66(a)	Design in Decoration	4	3
66b	Design in Decoration	4	dropped
68a	Graphic Design	4	2
68b	Graphic Design	4	2
116a	Print Making	4	2
116b	Print Making	4	2
117a-f	Independent Work: Painting, Print Making (from 4 hours each to 3 hours each) (Wish to change number to 177a-d)	24	12
119a-f	Independent Work: Design, Construction (from 4 hours each to 3 hours each) (Wish to change number to 179a-d)	24	12
121a-f	Independent Work: History, Criticism (from 4 hours each to 3 hours each) (Wish to change number to 175a-d)	24	12
138	Renaissance in the North	3	2
140	Renaissance Art	4	3
141	Baroque Art	4	3
142	Modern Art	4	3
143	Contemporary Art	4	3
147	Art in America	3	2
151	Criticism of Art	4	3
157	Art in Secondary Schools	4	3
160a	Seminar in Art	1	1
160b	Seminar in Art	1	1
160c	Seminar in Art	1	dropped
165a	Advanced Painting	4	3
165b	Advanced Painting	4	3
165c	Advanced Painting	4	dropped
167(a)	Mural Painting**	4	3
167	Mural Painting**	4	dropped
TOTALS:		222	125

(**Wish to change title to "Professional Painting Techniques")

(##Wish to change title to "Painting (for non-art majors)")

Proposed Conversion of Credits to the Semester Basis for
the Division of Social Studies

DEPARTMENT OF ANTHROPOLOGY

		<u>Quarter Hours</u>	<u>Semester Credits</u>
*1	General Anthropology (wish to change title to "Introduction to Physical Anthropology")	4	3
*2	General Anthropology (wish to change title to "Introduction to Cultural Anthropology")	4	3
12**	Kentucky Archeology	3	2
101	Principles of Anthropology	3	2
103a,b	Independent Work in Anthropology (3 each)	6	6
104	Human Origins	3	dropped
105	Ethnology	3	2
106	Ethnology of Europe	3	2
107	Ethnology of New World	3	2
108	Development of Culture	3	3
110a,b	Field Methods in Anthropology (3 each)	6	6
115	North American Archeology	4	3
120	Museum Methods in Anthropology	3	dropped
125	Advanced Physical Anthropology	4	3
150a,b	Seminar (Wish to change title to "Tutorial Seminar") (from 1 to 2 each)	2	4

New Courses:

10a,b	Field Work in Anthropology (3 each) Designed to give the student specialized training in basic excavation methods, field photography, recovery of skeletal material, and general ethnographic techniques. Prerequisites: Anthropology 1 & 2.	6
60	Primitive Inventions Ancient and modern inventions of primitive peoples. Technology emphasized. Students manufacture objects of stone, wood, pottery, and fabrics. Lectures and demonstrations, 3 hours. Prerequisite: Anthropology 2.	3
130	North Pacific Coast Cultures Ethnology of the maritime peoples of western North America and Northeast Asia. Cultural connections between America and Asia will be stressed. Lectures, 3 hours. Prerequisite: Anthropology 1 and 2.	3
131	Ethnology of Oceania A survey of the various cultures to be found on the islands of the Pacific Ocean. Both aboriginal and modern acculturated societies considered. Lectures, 3 hours. Prerequisites: Anthropology 1 and 2	3

**Course number changed from 102.

Department of Anthropology con'd

		Quarter Hours	Semester Credits
140	Mythology The unwritten literature of primitive peoples. Diffusion, style, literary devices and function of myths. Students prepare a short paper on results of library research as main objective of course. Lectures, 3 hours.		3
201a,b	Seminar (1 each) Intensive work in particular fields of anthropology. All students during a given semester are assigned related phases of the same problem. Designed primarily for students working toward a master's degree in anthropology.		2
TOTALS:		54	61

DEPARTMENT OF GEOGRAPHY

*1	Elements of Geography	4	3
*2	Regional Geography of the World	4	3
*3a,b	Societies and Their Habitats Around the World (from 5 to 3 each)	10	6
*10	Economic Geography Survey	4	3
*20	Introduction to Meteorology	4	3
*22	Climatology	4	3
100	Regional Geography of Anglo America	4	2
101	Geography of Kentucky	4	2
102	Regional Geography of Latin America	4	2
103	Regional Geography of Europe	4	2
104	Regional Geography of Asia	4	2
105	Regional Geography of Australia and the Pacific Islands	4	2
130	Regional Field Observation	4	3
132a-d	Independent Work in Geography (from 4 to 3 each)	16	12
134	Cartography	4	3
140	Geographical Foundations of World Power	4	2

New Courses:

106	Regional Geography of Africa (offered in alternate years) A study of Africa as a complete continent and not as an example of European imperialist policy; as a series of colonial entities. Prerequisite: One lower division course in Geography.		2
110	Advanced Economic Geography The Geographical foundations and aspects of agriculture, manufacturing, and commerce are subjected to analytical treatment in order that the pattern of their interrelationships be recognized. Various agricultural, mineral, and manyfactural commodities are studied both as exemplification of the above analyses and to expand the content of economic geographic information. Particular attention is directed toward modern transportation, trade routes, and the use of statistical data. Prerequisite: Geography 10.		2

Department of Geography con'd

		<u>Quarter Hours</u>	<u>Semester Credits</u>
112	Conservation of Natural Resources (offered in alternate years) The purpose of this course is to acquaint students with the bases of, needs for, and problems in conserving natural resources. The content involves attention to such topics as soils, marginal land use, reclamation, forest conservation, water power, flood control, mineral conservation, wildlife, recreational resources, and the conservation of human beings. The materials concern the resource situation within the United States. Prerequisite; Geography 10 or equivalent.		2
122	Applied Climatology (offered in alternate years) The purpose of this course is to acquaint students with the applicability of climatic data to specific economic activities, such as agriculture, ranching, silviculture, manufacturing, transportation, recreation, etc. Attention is directed to the locative influences of climative factors. Prerequisite: Geography 22 or equivalent.		2
133a-d	Special Problems (1 each) Designed for advanced students who undertake minor research problems to be conducted in regular consultation with the instructor. It can only be taken concurrently with a related upper division course in Geography.		4
202	Seminar - Geography of the Caribbean Region Principal emphasis is on the islands of the Caribbean region. A study is made of their geographical bases for economic livelihood, their present resource contributions, the significance of their location, and their individual and collective insular problems. Prerequisite: Geography 102.		3
203	Seminar - Geography of the Mediterranean Basin and the Middle East A study of geographical problems arising in the crucial Mediterranean area is made. Particular attention is directed to the unique locative influences and their effects upon geographical developments in Europe, Asia, and Africa. Prerequisite: Geography 103.		3
204	Seminar - Geography of the U.S.S.R. A study of the regional structure, relationships, and problems within Soviet Russia is made. An evaluation is made of the resource basis of modern Soviet development and of present trends in Soviet land expansion. Prerequisite; Geography 104.		3
TOTALS:		82	74

DEPARTMENT OF HISTORY

		Quarter Hours	Semester Credits
2a	History of the British People to the Restoration	5	3
2b	History of the British People since the Restoration	5	3
4a	Modern Europe to the French Revolution	4	3
4b	Modern Europe since the French Revolution	4	3
5a	History of the United States through 1865	5	3
5b	History of the United States since 1865	5	3
8a	European Civilization to 1815	5	3
8b	European Civilization since 1815	5	3
10a	American Civilization, 1607-1865	5	3
10b	American Civilization since 1865	5	3
28	The Ancient World	3	2
30	Rise of the American Nationality, 1607 to the Present	5	3
40	History of Kentucky	4	3
100a	The Diplomatic and Foreign Policy of the U.S. to 1898	4	3
100b	The Diplomatic and Foreign Policy of the U. S. since 1898	4	3
105	Colonial America	4	3
106a	Colonial Latin America	3	2
106b	Latin American Republics	3	2
115	The Renaissance and Reformation	4	3
116a,b	Senior Seminar (2 each)	4	4
118	Social History of Europe in the Eighteenth Century	4	3
119a	The French Revolution and Napoleon	4	3
119b	Europe in the Nineteenth Century	4	3
120	Europe in the Twentieth Century	4	3
121	Social and Political Factors in Contemporary Civilization	4	dropped
124a	Social and Cultural History of the U.S. to 1865	4	3
124b	Social and Cultural History of the U.S. Since 1865	4	3
131a	English Constitutional History to 1603	4	3
131b	English Constitutional History since 1603	4	3
134	History of Canada	4	3
135a	The British Empire to 1860	4	3
135b	The British Empire since 1860	4	3
138	British Social History During the Tudor Period, 1485-1603	3	2
139	British History since 1815	4	3
140a-f	Independent Work (from 3 to 2 each)	18	12
141	Tutorial Reading	1	1
145	Russia since 1900	4	3
147	Recent History of the U. S.	4	3
151a,b	The American Frontier (from 4 to 3 each)	8	6
161a	American Political History to 1860	4	dropped
161b	American Political History from 1860	4	dropped
171	Europe in the Eighteenth Century	3	3
175	The Danubian States	3	dropped
176	France since 1870	3	2
177	Germany since 1870	5	3
178	The Balkan Peninsula, 1774-1945	4	3
179	Modern Europe	5	3
180a	History of the Old South	4	3
180b	The South in the Civil War and Reconstruction	4	3
180c	History of the New South	4	3
184	The Geographic Basis of American History	3	dropped

Department of History con'd

		Quarter Hours	Semester Credits
185a	Cultural History of Seventeenth Century Europe	4	3
185b	Cultural History of Eighteenth Century Europe	4	3
190a	The Far East to 1900	3	2
190b	The Far East since 1900	3	2
194	The U.S. in the Pacific and the Far East since 1898	3	2
202	The American Revolution	4	3
206	The Confederation of the United States	4	3
247a-d	Seminar in United States History (3 each)	12	12
280	European Historiography	3	3
281	American Historiography	3	3
282	Historical Criticism	3	3
300a-d	Seminar in American Foreign Policy (from 4 to 3 each)	16	12
315a-d	Henry Clay and His Times (3 each)	12	12
320a-d	Origins of World War I	12	12
331	Seminar in Modern British History	4	3
342	Seminar in Kentucky History	3	3
350a-d	Seminar in the French Revolution (from 4 to 3 each)	16	12
365	The American Civil War	3	3
366	Reconstruction	3	3
TOTALS:		337	243

DEPARTMENT OF POLITICAL SCIENCE

8a	European Civilization to 1815	5	3
8b	European Civilization since 1815	5	3
10a	American Civilization, 1607-1865	5	3
10b	American Civilization since 1865	5	3
51	American Government	5	3
52	Municipal Government	5	3
80	State Government	5	3
101	Latin American Relations	5	3
111	Current Public Affairs	2	1
150	International Law	5	3
155a	Comparative Government--Parliamentary Democracies	5	3
155b	Comparative Government--Contemporary Dictatorships	5	3
159a,b	American Constitutional Development (from 5 to 3 each)	10	6
160	American Foreign Relations	5	3
165	World Politics	5	3
168	The Governments and Politics of Eastern Asia	5	3
170	Political Parties	5	3
171a	Early Political Theory	5	3
171b	Modern Political Theory	5	3
172	Kentucky Government and Constitution	5	3
173	Public Opinion	5	3
175	Contemporary American Political Thought	5	3
176	Legislation	5	3
177a,b	Public Administration (from 5 to 3 each)	10	6

Department of Political Science con'd

		Quarter Hours	Semester Credits
180a-d	Independent Work (from 5 to 3 each)	20	12
190	Seminar in Political Science	5	3
202	National and Regional Planning	5	3
204	International Relations and Organization	5	3
206	Special Problems in Public Administration	5	3
211	The Constitution and Civil Rights	5	3
213	Federal Centralization	5	3
217	Contemporary American Diplomatic Problems	5	3
271	Seminar in Contemporary Political Theory	5	3
	TOTALS:	187	112

DEPARTMENT OF SOCIAL WORK

Proposed Change Over to Semester Basis

24	Orientation to Social Welfare Practice	4	3
100	Public Welfare Administration	4	3
105	Child Welfare Services	4	3
110	Psychiatric Information for Social Workers	2	2
113	Introduction to Social Case Work I	2	2
116	Social Work Research and Statistics	4	3
122	Fields of Social Work	4	3
127a	Tutorial Work in Social Work	1	1
127b	Tutorial Work in Social Work	1	1
C130a	Community Organization for Social Welfare	3	3
C130b	Community Organization for Social Welfare	3	3
131	Introduction to Field Work Practice in Community Organization	2	2
140a	Principles of Social Group Work	4	3
140b	Administration and Supervision of Group Work Agency Programs	4	3
144a	Field Participation in Group Work Programs	2	2
144b	Field Participation in Group Work Programs	2	2
151	Public Assistance Programs	4	3
217	Generic Social Case Work	2	2
220a	Supervised Field Work	3	2
221	Advanced Social Case Work I	2	2
225	Social Insurance	2	2
	<u>DROP</u>		
127c	Tutorial Work in Social Work	1	
144c	Field Participation in Group Work Programs	2	
227	Rural Social Work Problems	4	
		66	50

DEPARTMENT OF SOCIOLOGY

1	Principles of Sociology	5	3
2	Modern Social Problems	5	3
3a,b	Societies Around the World (from 5 to 3 each)	10	6
6	American Immigrants and Races	2	2

Department of Sociology con'd

		Quarter Hours	Semester Credits
7	Social Institutions	4	3
18	Comparative Sociology	4	3
19a,b	Junior Tutorial (1 each)	2	2
19c	Junior Tutorial	1	dropped
20a,b	Senior Tutorial (1 each)	2	2
20c	Senior Tutorial	1	dropped
25	Collective Behavior	4	3
27	Religion and Culture	4	3
28	The Cultural Process and the Hebrew-Christian Religion	4	3
101	Poverty and Dependency (wish to change title to "Social Dependence")	4	3
102	Social Pathology	4	3
103	Criminology	4	3
105	Social Theory: Plato to Comte	4	3
109	The Family	4	3
114a-d	Independent Work (1 each)	4	4
114e,f	Independent Work (1 each)	2	dropped
121	Population Problems	4	3
122(a)	Sociological Theory: Contemporary (wish to change title to "Contemporary Sociological Theory")	4	3
122b	Sociological Theory: Contemporary	4	dropped
124	Techniques of Social Investigation	4	3
125	American Regionalism	4	dropped
128	Human Resources of the South	4	3
130	Social Systems	4	3
164	The Balkans: Study of a Peasant Society	4	3
201a,b	Sociology Seminar (2 each)	4	4
209	Seminar in the Family	2	2
223	Social Treatment of Delinquency	4	dropped
224	Minority Groups	4	3
225	Systematic Sociology	4	3
226	Social Legislation	4	dropped

Changes in course description and title and/or number:

112	The Community (change number to 40) Social organization and process in modern communities; social techniques of community improvement.	4	3
126	Occupational Organization (change title to "Industrial Sociology") A sociological analysis of the division of labor, the characteristics of occupational groupings; principal socio-economic movements, and group relationships in modern industry. Prerequisite: One sociology and one economics course.	4	3
127	Differentiation and Stratification (change title to "Social Classes") A systematic treatment of the factors underlying social differentiation and stratification, with particular attention to class and caste; social mobility in American society. Prerequisite: one sociology course.	4	3

Department of Sociology con'dNew Course:170 The City

Study of the sociology of city life. Major emphasis upon the ecological and social characteristics of urbane life in contrast to rural community life. Trend toward metropolitan interdependent areas is described. The sociological aspects of city and regional planning are also considered. Prerequisite: An introductory sociology course or equivalent.

<u>Quarter</u>	<u>Semester</u>
<u>Hours</u>	<u>Credits</u>

3

140

94

THE DEGREE OF B. S. IN INDUSTRIAL CHEMISTRY

The degree of Bachelor of Science in Industrial Chemistry is awarded upon completion of a prescribed curriculum. The curriculum is designed to prepare the student to continue the study of chemistry in graduate school, or to engage in technical work with a substantial background of training. Although it is constructed on the basis of four academic years, students are advised to plan to spend an additional semester or two summer terms, so that the load may be lighter during the regular years.

German 21b must be completed and one year's work in French is recommended, so that a fair reading knowledge of both languages may be acquired. Students planning to take this course are advised to include one year of physics and one-half year of solid geometry in their high school studies. Deficiencies in these subjects may require enrollment in preliminary courses at the University. Solid geometry is a prerequisite for Mathematics 19.

Registration in chemistry courses of juniors or seniors majoring in chemistry or industrial chemistry is restricted to students having a grade-point average of 1.5 or higher in all subjects exclusive of military training, except that this regulation may be set aside by action of the faculty of the Department of Chemistry.

CURRICULUM LEADING TO THE DEGREE OF B.S. IN INDUSTRIAL CHEMISTRYFreshman Year

<u>First Semester</u>	<u>Sem.</u> <u>Crs.</u>	<u>Second Semester</u>	<u>Sem.</u> <u>Crs.</u>
Military Science 1a	2	Military Science 1b	2
English 1a	3	English 1b	3
Mathematics 17(College Algebra)	3	Mathematics 19(Analytic Geometry)	3
Mathematics 3 (Trigonometry)	3	German 1a	3
Chemistry 1a(General Chemistry)	5	Chemistry 1b(General Chemistry)	5
Hygiene 1	1	Engineering Drawing 2	1
	17	*Elective, Social Studies	3
			20

Industrial Chemistry, con'dSophomore Year

<u>First Semester</u>	<u>Sem.</u> <u>Crs.</u>	<u>Second Semester</u>	<u>Sem.</u> <u>Crs.</u>
Military Science 6a	2	Military Science 6b	2
Chemistry 21a(Quantitative Analysis)	5	Chemistry 21b(Quantitative Analysis)	4
Mathematics 20a(Diff. Calculus)	4	Mathematics 20b(Int. Calculus)	4
Physics 3a	6	Physics 3b	6
German 1b	3	German 21a	3
	20	English 6(Public Speaking)	3
			22

Junior Year

<u>First Semester</u>	<u>Sem.</u> <u>Crs.</u>	<u>Second Semester</u>	<u>Sem.</u> <u>Crs.</u>
Chemistry 130a(Organic)	5	Chemistry 130b(Organic)	5
Chemistry 140a(Physical)	3	Chemistry 140b(Physical)	3
Chemistry 144a(Physical Lab.)	2	Chemistry 144b(Physical Lab.)	2
German 21b	3	Mathematics 105(Differential Equations)	3
Economics 1	3	*Elective, Humanities	3
English 30(Business English)	2	*Elective, Social Studies	3
*Elective, Humanities	3		19
	21		

Senior Year

<u>First Semester</u>	<u>Sem.</u> <u>Crs.</u>	<u>Second Semester</u>	<u>Sem.</u> <u>Crs.</u>
Chemistry 110a(Advanced Inorganic)	2	Chemistry 110b(Advanced Inorganic)	2
Chemistry 120(Advanced Qualitative)	3	Chemistry 111(Inorganic Laboratory)	1
Chemistry 133(Qualitative Organic)	3	Chemistry 121(Semimicro Quantitative Analysis)	3
Chemistry 160(Industrial)	3	Chemistry 161(Industrial)	2
Chemistry 181(Chemical Literature)	1	Chemistry 141(Chemical Thermodynamics)	3
Chemistry 188a(Seminar)	0	Chemistry 188b(Seminar)	1
#Biological Science	3	#Biological Science	3
Elective(Physics or Mathematics)	3	Elective(Chemistry or Geology)	3
	18		18

Total number of Semester Credits Required for a Degree155

*Electives are to be chosen from courses designated by the Department of Chemistry. A student who is planning on graduate work may substitute six semester hours of French for the requirement in the Humanities.

Chemistry 188a,b (Seminar). Each senior is required to present a minimum of four reports to the student-faculty group to earn one semester hour of credit. Attendance at the seminar for two semesters is required before one hour of credit is earned.

#The Biological Science requirement may be met by courses in this field selected with the approval of the Department of Chemistry.

The requirements in physical education must be met by the completion of work prescribed by the Department of Physical Education, without credit.

DEPARTMENT OF GEOLOGY

		Quarter Hours	Semester Credits
dropped Sem. Hrs.	*3 Elementary Geology	4	3
	10a,b Field Geology (3 each)	6	6
	10c Field Geology	3	dropped
	12a Elementary Geology for Engineers	4	3
	12b Elementary Geology for Engineers	3	3
	*14a-d Elementary Field Geology (1 each)	4	4
	*20a,b Lab. Work in Elementary Geology (1 each)	2	2
	*23a,b Elementary Field Work in Regional Geology (from 6 to 8 each)	12	16
	30a,b General Geology (5 each)	10	10
	30c General Geology	5	dropped
9 Qtr. Hrs.	*50a,b Outlines of Geology (3 Each)	6	6
	*50c Outlines of Geology	3	dropped
	*53 Physiography of North America	4	3
	101a,b Paleontology (3 each)	6	6
	101c Paleontology	3	dropped
	105a-f Independent Work in Geology (from 4 to 3 each)	24	18
	106a-c Economic Geology (from 4 to 3 each)	12	9
	107a-f Advanced Field Geology (3 each)	18	18
	118a-d Field Work in Regional Geology (from 6 to 8 each)	24	32
	120a,b Geology of Kentucky (from 4 to 3 each)	8	6
107g-i Advanced Field Geology (3 ea.)	122 Petroleum Geology	4	3
	123a,b Mineralogy (from 4 to 3 each)	8	6
	124a,b Regional Geology (4 each)	8	8
	124c Regional Geology	4	dropped
	125 Methods of Subsurface Correlation	4	3
	126a,b Seminar (1 each)	2	2
	126c Seminar	1	dropped
	208 Structural Geology	4	3
	210a,b Stratigraphic Paleontology (3 each)	6	6
	210c Stratigraphic Paleontology	3	dropped
107g-i	212a Optical Mineralogy	4	3
	212b Sedimentary Petrology	4	3
	212c Petrology of the Igneous Rocks	4	3
	217a-d Seminar (1 each)	4	4
	217e,f Seminar (1 each)	2	dropped
		232	189

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

*D	Elementary Mathematics	0	dropped
*2	Solid Geometry	4	3
*5b	College Algebra	4	dropped
*9	Course for Prospective Teachers	4	dropped
*11	Spherical Trigonometry	3	dropped

<u>Department of Mathematics and Astronomy con'd</u>		<u>Quarter</u> <u>Hours</u>	<u>Semester</u> <u>Credits</u>
*12	Least Squares	3	dropped
*15	Mathematics of Finance	4	3
*16a-f	Tutorial Work in Mathematics (1 each)	6	dropped
*17	College Algebra	5	3
*19	Plane Analytic Geometry	5	3
20a	Differential Calculus	5	4
20b	Integral Calculus	5	4
25	Intermediate Calculus	4	3
26	Advanced College Algebra	4	3
30	Fundamental Concepts of Elementary Mathematics	2	dropped
35	Differential Equations	4	dropped
51a	Descriptive Astronomy	4	3
51b	Descriptive Astronomy	4	3
52a	Practical Astronomy	4	3
52b	Practical Astronomy	4	3
54	Elementary Observations in Astronomy	3	2
102	Vector Analysis	4	3
103	Theory of Equations	4	3
105a	Differential Equations	4	3
105b	Differential Equations	4	3
106a	Advanced Calculus	4	dropped
106b	Advanced Calculus	4	dropped
107	Projective Geometry	4	3
110a-f	Independent Work in Mathematics (from 4 to 3 each)	24	18
112	Series	4	dropped
113	Fourier Series	4	dropped
116	Analytic Mechanics	4	3
118	Solid Analytic Geometry	4	3
119	Modern Geometry (wish to change title to "College Geometry")	4	3
120	Mathematical Statistics	4	3
121	Modern Solid Geometry	4	dropped
122	Actuarial Mathematics	4	3
123	Curve Tracing	4	3
124	Elementary Theory of Statistics	4	dropped
130	Fundamental Concepts of Elementary Mathematics	2	dropped
132	The Calculus of Finite Differences	4	3
201a,b	Geometric Transformations (4 each)	8	dropped
202a,b	Algebraic Curves (from 4 to 3 each)	8	6
203a-d	Thesis (from 4 to 3 each)	16	12
205	Differential Geometry	4	3
206	Theory of Groups	4	3
207(a)	Theory of Numbers	4	3
207b,c	Theory of Numbers (4 each)	8	dropped
209a,b	Theory of Functions of a Complex Variable (wish to change title to "Functions of a Complex Variable") (from 4 to 3 each)	8	6
214	Potential Functions	4	3
217	Algebraic Invariants	4	dropped
218	Algebraic Numbers	4	dropped
220a,b	Seminar (from 3 to 2 each)	6	4
221	Tensor Analysis	4	3
222	Orthogonal Systems of Numbers (wish to change title to "Orthogonal Systems of Functions")	4	3

Department of Mathematics and Astronomy con'd

		<u>Quarter Hours</u>	<u>Semester Credits</u>
223	Integral Equations	4	3
224	Boundary Value Problems	4	dropped
251a,b	Celestial Mechanics (from 4 to 3 each)	8	6

Change in Number:

*3	Plane Trigonometry - to 18	5	3
*5a	College Algebra - to 5	4	5
24	Elementary Theory of Statistics - to 4	4	3
104	Advanced Analytic Geometry - to 27	4	3
204	Calculus of Variations - to 204a	4	3
208	Theory of Functions of a Real Variable - to 208a, "Functions of a Real Variable" (change in title)	4	3
211	Higher Algebra - to 226a	4	3

Courses to be added:

*1	Basic Mathematics		3
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A study of elementary mathematics necessary for certain courses in science. Contents: Common and decimal fractions, percentages, averages, powers and roots in arithmetic; formulas, simple equations, and graphs in algebra; simple problems in geometry; and solutions of triangles in trigonometry. Open to freshmen only.

125a,b	Introduction to Higher Analysis (3 each) Development of the number system, elementary point set theory, limits, sequences, series, continuous functions, derivatives and integrals, elementary functions, Fourier series. Prerequisite: Math. and Ast. 20b		6
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126a,b	Introduction to Higher Algebra (3 each) Integral domains, fields, polynomials, groups, vector spaces, matrices, and determinants. Prerequisite: Math. and Ast. 26.		6
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127a,b	Introduction to Higher Geometry (3 each) The principal aim of this course is to initiate the student in the basic ideas and methods of higher geometry and to furnish him with an adequate background for further geometrical studies. Special emphasis is laid on fundamentals common to all geometry. The geometries associated with the projective group and the group of circular transformations are selected for intensive study. Prerequisite: Math. and Ast. 27, or its equivalent.		6
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128a,b	Introduction to Applied Mathematics (3 each) Numerical, graphical, and mechanical methods of calculation, approximations, methods of successive approximation, theory of errors in numerical computation, algebra and calculus of vectors, calculus of variations. Prerequisite: Math. and Ast. 25.		6
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Department of Mathematics and Astronomy con'd

		<u>Quarter Hours</u>	<u>Semester Credits</u>
204b	Calculus of Variations The ordinary problem for the plane and space cases; the necessary conditions of Euler, Weierstrass, Legendre, and Jacobi. The parametric problem; the isoperimetric problem. Sufficiency conditions. Prerequisite: Math. and Ast. 105b.		3
208b	Functions of a Real Variable Transfinite numbers, point set topology, continuous functions, methods of summation, Hilbert spaces, theories of the integral and derivatives, Fourier series, transcendental functions. Prerequisite: Math. and Ast. 225a,b, consent of teacher.		3
210	Advanced Mathematical Statistics Theory of sampling, the Chi-square distribution, testing statistical hypotheses. Prerequisite: Math. and Ast. 120.		3
225a,b	Higher Analysis (3 each) Development of the complex number system from the Peano axioms, point set theory, limits, series, continuous functions, analytic functions, elementary functions, measure, Lebesgue, Riemann and Stieltjes integrals. Prerequisite: Math. and Ast. 125a,b.		6
226a,b	Higher Algebra Groups, rings, fields, extension fields, Galois theory, linear algebras, hyper complex numbers, ideals. Prerequisite: Math. and Ast. 126a,b, or consent of teacher.		6
227a,b	Higher Geometry (3 each) Topics studied include projective spaces, groups of collineations, invariants and covariants, Cremona transformations, geometry on an algebraic curve, the plane cubic and quartic, space curves, the cubic surface. Prerequisite: Math. and Ast. 127a,b.		6
230	Topology Calculus of sets, closed and open sets, metric and separable spaces, complete spaces, continuous mappings, connection, separation theorems, simply connected domains, accessibility and Jordan domains. Prerequisite: Math. and Ast. 125a,b, or consent of teacher.		3
231	Advanced Differential Equations Existence theorems, partial differential equations, linear equations with periodic coefficients, classical equations, equations in infinitely many variables. Prerequisite: Math. and Ast. 105b.		3
TOTALS:		<u>310</u>	<u>232</u>

Proposed Conversion of Courses and Credits
from the Quarter to the Semester Basis for
the Department of Physics

The Department of Physics			Quarter Hours	Semester Credits	
Physics	1a	General Elementary Physics (Mechanics)	5	0	
	1b	General Elementary Physics (Magnetism and Electricity)	5	0	
	1c	General Elementary Physics (Heat, Sound, and Light)	5	0	
	1a	General Elementary Physics (Mechanics and Heat)	0	5	
	1b	General Elementary Physics (Electricity, Sound and Light)	0	5	
	3a	General College Physics (Mechanics)	6	0	
	3b	General College Physics (Magnetism and Electricity)	6	0	
	3c	General College Physics (Heat, Sound and Light)	6	0	
	3a	General College Physics (Mechanics and Heat)	0	6	
	3b	General College Physics (Electricity, Sound and Light)	0	6	
	Drop	7a-b	Gen. Elementary Physics (7 each)	14	0
		15a-d	Tutorial Work (2 each)	8	TO
Drop	51	Introduction to Physics (Mechanics)	3	0	
	52	Introduction to Physics (Magnetism and Electricity)	3	0	
	53	Introduction to Physics (Heat, Sound and Light)	3	0	
	51a	Introduction to Physics (Mechanics and Heat)	0	3	
	51b	Introduction to Physics (Electricity, Sound and Light)	0	3	
	104	Theoretical Mechanics	6	4	
	108	Light	5	3	
	110	Spectroscopy	5	3	
	111	Electricity and Magnetism	5	3	
	Drop	113	Fundamentals of Radio	3	0
114		Vac. Tubes and Circuit Theory	4	3	
115		Theory of Measurements	4	3	
Drop	116a-b	Physical Manipulations (1 each)	2	0	
	117	Theory of Heat	3	0	
	119	X-Rays and Crystal Structure	4	3	
	120	X-Ray Technique	3	2	
Drop	122	X-Ray Crystal Analysis	4	0	
	123a	Heat and Thermodynamics	3	3	
	123b	Heat and Thermodynamics	3	3	
	125a-d	Independent Work (4 each)	16	0	
	125a-d	Independent Work (3 each)	0	12	
	130	Experimental Physics: Spectroscopy	0	2	
	131	Exp. Physics: Electricity and Mag.	3	2	
	134	Exp. Physics: Vacuum Tubes	0	2	
	135	Exp. Physics: Atomics and Nucleonics	3	2	
	137	Exp. Physics: Heat	3	2	
	138	Exp. Physics: Light	3	2	
	155a	Fund. Atomic and Nuclear Physics	5	3	
	155b	Fund. Atomic and Nuclear Physics	0	3	

Department of Physics, con'd

		Quarter Hours	Semester Credits
Drop Physics 201	Physical Optics	4	0
Drop Physics 204	Dynamics of a Particle and Wave Motion	4	0
Physics 205	Kinetic Theory of Matter	4	3
208	Microwaves	6	3
210a	Electrodynamics	5	0
210b	Electrodynamics	4	0
210	Electrodynamics	0	3
Drop 211	Magnetism	4	0
212	Conduction of Electricity through Gases	4	3
213	Electromagnetic Theory	4	3
214	Transient Electric and Vacuum Tube Phenomena	4	3
215a	Quantum Theory	4	3
215b	Quantum Theory	0	3
217a-b-c	Theoretical Physics (4 each)	12	0
217a-b	Theoretical Physics (4 each)	0	8
218	Thermodynamics	4	3
220a-h	Seminar (1 each)	6	8
224	Advanced X-Rays and Crystal Structure	4	3
225	Thesis	0	0
226a-b	Research (4 each)	8	0
226a-b	Research (3 each)	0	6
227a-b	Research (6 each)	12	0
227a-b	Research (5 each)	0	10
250a-b	Relativity (4 each)	8	0
250	Relativity	0	3
		252	153

The following courses were never transferred to the Quarter Basis, and the Department of Physics desires to drop these courses at this time:

Physics 2a-b	General College Physics (5 each)	10
5	Measurements in Mechanics and Heat	3
6	Measurements in Elect. and Magn.	3
102a-b	Electricity and Magnetism (5 each)	10
105	Electric Waves and Their Application	4
106	X-Ray Phenomena	2
107	Theoretical Mechanics	3
121a-b	Seminar in Classical Physics (2 each)	4
		<u>39</u>

Summary of Quarter Courses to be Dropped:

Physics 7a-b	General Elementary Physics	14
15a-d	Tutorial Work (2 each)	8
113	Fundamentals of Radio	3
116a-d	Physical Manipulations (1 each)	2

Department of Physics, con'd

		Quarter Hours	Semester Credits
117	Theory of Heat	3	
122	X-Ray Crystal Analysis	4	
123a-b	Principles of Thermodynamics (3 each)	6	
125a-d	Independent Work (4 each)	16	
155	Fundamental Atomic and Nuclear Physics	5	
201	Physical Optics	4	
204	Dynamics of a Particle and Wave Motion	4	
210a-b	Electrodynamics (5,4)	9	
211	Magnetism	4	
215	Quantum Theory	4	
217a-c	Theoretical Physics (4 each)	12	
220a-f	Seminar (1 each)	6	
226a-b	Research (4 each)	8	
227a-b	Research (6 each)	12	
250a-b	Relativity (4 each)	8	
		132	

Summary of Semester Courses to be Added:

Physics	123a-b	Heat and Thermodynamics (3 each)	6
	125a-d	Independent Work (3 each)	12
	130	Experimental Physics: Spectroscopy	2
	134	Experimental Physics: Vacuum Tubes	2
	155a-b	Fundamental Atomic and Nuclear Physics (3 each)	6
	210	Electrodynamics	3
	215a-b	Quantum Theory (3 each)	6
	217a-b	Theoretical Physics (4 each)	8
	220a-h	Seminar (1 each)	8
	226a-b	Research (3 each)	6
	227a-b	Research (5 each)	10
	250	Relativity	3
			72

Note: There is actually no new course requested. The semester courses here proposed represent a redistribution of the work previously given, amounting in some courses to an expansion, in other cases to a contraction of the material.

MILITARY SCIENCE
(R.O.T.C.)

Conversion of Credits to the Semester Basis

*1a	Basic Military Science I, ROTC	2	2
*1b	Basic Military Science I, ROTC	2	2
*1c	Elementary Military Science I, ROTC	2	dropped
*6a	Basic Military Science II, ROTC	2	2
*6b	Basic Military Science II, ROTC	2	2
6c	Elementary Military Science II, ROTC	2	dropped
7a	Advanced Military Science III, ROTC (INFANTRY)	4	4

Department of Military Science Con'd

	<u>Quarter Hours</u>	<u>Semester Credits</u>
7b Advanced Military Science III, ROTC (INFANTRY)	4	4
7c Advanced Military Science I (INFANTRY)	4	dropped
8a Advanced Military Science IV, ROTC (INFANTRY)	4	4
8b Advanced Military Science IV, ROTC (INFANTRY)	4	4
8c Advanced Military Science II (INFANTRY)	4	dropped
9a Advanced Military Science III, ROTC (SIGNAL CORPS)	4	4
9b Advanced Military Science III, ROTC (SIGNAL CORPS)	4	4
9c Advanced Military Science I (SIGNAL CORPS)	4	dropped
10a Advanced Military Science IV, ROTC (SIGNAL CORPS)	4	4
10b Advanced Military Science IV, ROTC (SIGNAL CORPS)	4	4
10c Advanced Military Science II, ROTC (SIGNAL CORPS)	4	dropped
11a Advanced Military Science III, ROTC (AIR FORCE)	4	4
11b Advanced Military Science III, ROTC (AIR FORCE)	4	4
11c Advanced Military Science I, ROTC (AIR FORCE)	4	dropped
12a Advanced Military Science IV, ROTC (AIR FORCE)	4	4
12b Advanced Military Science IV, ROTC (AIR FORCE)	4	4
13a Advanced Military Science IV, ROTC (AIR FORCE)	4	4
13b Advanced Military Science IV, ROTC (AIR FORCE)	4	4
	<u>88</u>	<u>64</u>

The Faculty approved the recommendations from the College of Arts and Sciences.

In the absence of Dean Cooper, Assistant Dean Horlacher presented for the College of Agriculture and Home Economics the revised proposals of that college for changes in courses and new courses, as follows:

UNIVERSITY OF KENTUCKY
COLLEGE OF AGRICULTURE AND HOME ECONOMICS

The following comparison shows departmental offerings in quarter hours and semester hours:

<u>Department</u>	<u>Quarter Hours</u>	<u>Semester Hours</u>
Agricultural Entomology	47	29
Agricultural Extension	1	1
Agronomy	152	96
Animal Industry	323	242
Animal Pathology	30	21
Farm Economics	105	98
Horticulture	95	92
Markets & Rural Finance	64	50
Home Economics	<u>256</u>	<u>331</u>
	1073	960

When the quarter system was adopted, most of our three-hour courses were changed to four-quarter hour courses. These courses are now being changed back to three semester hours.

The following courses have been dropped:

Agronomy A (4 hours); 102 (4 hours); 107 (2 hours); 223a,b (8 hours)

College of Agriculture and Home Economics, con'd

Animal Industry A (4 hours); 24 (2 hours); 42 (2 hours);
 Farm Economics 114a-c (3 hours); 123a-c (3 hours)
 Rural Sociology 110 (3 hours); 120 (3 hours); 130a-c (9 hours);
 140a-c (3 hours)
 Horticulture 11 (3 hours)
 Forestry 101a (4 hours); 101b (4 hours)
 Markets & Rural Finance 104 (2 hours); 111 (3 hours); 141a-c
 (3 hours); 211 (3 hours)
 Home Economics 139a,b (6 hours) - Total 78 hours

The following courses have been added:

Farm Economics 204 (3 hours)
 Rural Sociology 115 (3 hours); 125 (3 hours); 160 (3 hours)
 180 (3 hours); 190a-c (6 hours); 230 (3 hours)
 Forestry 2 (3 hours); 110 (3 hours); 111 (3 hours); 120a-c (9 hours)
 Markets & Rural Finance 230a (3 hours); 230b (2 hours)
 Home Economics 12 (3 hours); 115a-c (6 hours); 215a-c (6 hours)
 128a-c (6 hours); 228a-c (6 hours); 136a-c (6 hours); 236a-c
 (6 hours); 139 (2 hours); 138 (2 hours); 134 (2 hours);
 145a-c (6 hours); 245a-c (6 hours); 52 (3 hours); 159a-c
 (6 hours); 259a-c (6 hours); 165a-c (6 hours); 265a-c (6 hours);
 73 (4 hours); 175 (3 hours)--same as Rural Sociology 160.

Attention is called to the fact that the special problem course in home economics has been divided into several special problem courses for the purpose of identifying the phase of work studied by the student. This division adds 60 semester hours to the total.

The following courses have been combined:

Farm Engineering 4a, 4b (6 hours) to 4 (3 hours)
 Animal Industry 124, 125 (6 hours) to 125 (5 hours)
 Animal Industry 126, 127 (6 hours) to 126 (5 hours)
 Home Economics 103a,b,c,d (6 hours) to 103a,b (6 hours)

The following numbers have been changed:

Animal Industry 130 to 123; 131 to 124
 Animal Pathology 103 to 51
 Farm Economics 101 to 130
 Home Economics 62 to 74
 Home Economics 17 to 20
 The prerequisite for Agronomy 10 should read: Prerequisite or concurrent - Chem. 1b or 4b.

The following names have been changed:

Agricultural Entomology 3; Agronomy 114; Rural Sociology 220;
 Forestry 1; Markets & Rural Finance 100, 102, 103, 120, 142;
 Home Economics 26, 126, 137.

Some of the numbers in the course material in home economics already submitted will be corrected as follows:

College of Agriculture and Home Economics con'd

170a-c	changed to	115a-c	175a-c	changed to	145a-c
270a-c	changed to	215a-c	275a-c	changed to	245a-c
138	changed to	134	190a-c	changed to	159a-c
187a-c	changed to	128a-c	290a-c	changed to	259a-c
287a-c	changed to	228a-c	195a-c	changed to	165a-c
185a-c	changed to	136a-c	295a-c	changed to	265a-c
285a-c	changed to	236a-c			
189a-c	changed to	138a-c			
289a-c	changed to	238a-c			

L. J. Horlacher
Assistant Dean

COLLEGE OF AGRICULTURE AND HOME ECONOMICS

Requirements for Graduation in Agriculture

To receive the degree Bachelor of Science in Agriculture a student is required to gain a total of 136 semester hours and 136 points. These represent the minimum requirements for graduation. There are six curricula in agriculture and completion of the requirements of any one of these leads to the degree. In all cases the student is responsible for meeting the requirements for graduation.

The General Curriculum in Agriculture enables the student to obtain a general education and at the same time pursue some specialization in a chosen field. In this curriculum the student has the privilege of selecting one of the following options for study during the junior and senior years: Agricultural Entomology, Agricultural Extension, Agricultural Science, Agronomy, General Agriculture or Vocational Agriculture.

The Curriculum in Agricultural Economics is for students desiring to enter some phase of agricultural business. The student in this curriculum selects one of the following options: Farm Economics and Rural Sociology, or Markets and Rural Finance.

The Curriculum in Animal Industry is for students whose primary interest is in livestock production and the livestock industry. The student in this curriculum chooses one of the following options: Animal Husbandry, Dairy Manufacturing, Dairy Production, or Poultry Husbandry. Proper use of free electives permits a student to prepare to teach Vocational Agriculture.

The Curriculum in Horticulture is for students interested in the production of fruits and vegetables and in allied industries. It provides opportunity for a student to prepare to teach Vocational Agriculture.

The Curriculum in Ornamental Horticulture prepares specialists in floriculture and landscape gardening.

The Curriculum for Teachers of Vocational Agriculture prepares students to be teachers of agriculture in high school.

College of Agriculture and Home Economics, con'd

Options are available in most of the curricula for students interested in certain fields. An option consists of a minimum of 14 hours of courses not open to freshmen. A student normally selects his option during the last semester of his sophomore year.

Faculty advisers are appointed by the Dean to help students with academic problems such as choice of a curriculum, preparation of class schedules, selection of an option, choice of elective courses, and employment.

Farm experience or experience in the option selected are required for graduation in agriculture. Transfer students are required to take a minimum of 34 hours of agriculture in the University.

Certain courses are required of all students in the various curricula; others are elective. The courses required for graduation are listed in the order they would normally be taken by students entering in the fall semester; some modification will be necessary for those entering in the spring or summer.

Changes in a curriculum to meet specific needs may be made if approved in accordance with the rules of the University Faculty. The normal academic load is 17 hours per semester; the maximum load is 23 hours; the minimum load for a full-time student is 12 hours.

General Curriculum leading to the Degree Bachelor of
Science in Agriculture

Freshman Year

<u>First Semester</u>		<u>Credits</u>	<u>Second Semester</u>		<u>Credits</u>
<u>Course</u>			<u>Course</u>		
Agro 1 Elem Farm Crops		3	*A I 1 Farm Livestock Prod		3
*A I 1 Farm Livestock Prod		3	*A I 21 Farm Dairying		3
*A I 21 Farm Dairying		3	*A I 41 Farm Poultry Prod		3
*A I 41 Farm Poultry Prod		3	Hort 1 Genl Horticulture		3
Bot 1a General Botany		3	Bot 1b General Botany		3
**Eng 1a English Composition		3	Eng 1b English Composition		3
Math 1 Basic Mathematics		3	Geol 3 Elem Geology		3
M S 1a 1st Yr Basic		2	M S 1b 1st Yr Basic		2
Physical Education		0	Physical Education		0
		<u>17</u>			<u>17</u>

*Schedule one course each semester. Two of the three courses are required for graduation.

**The requirements in whole or in part for English 1a, and 1b may be satisfied without credit by passing a departmental proficiency examination. Students deficient in English, as indicated by the freshman tests, are required to pass English D (with no credit) before taking English 1a.

Sophomore Year

<u>First Semester</u>		<u>Credits</u>	<u>Second Semester</u>		<u>Credits</u>
<u>Course</u>			<u>Course</u>		
*Chem 4a Genl Chemistry		4	Chem 4b Genl Chemistry		4
or			or		
*Chem 1a Genl Chemistry		5	Chem 1b Genl Chemistry		5

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Econ 1	Prin of Econ	3	Fm Ec 1	Agr Economics	3
Fm Eng 1	Mech of Farmstead	3	Agron 10	Soils	3
R S 10	Rural Sociology	3	A I 81	Prin of Animal Nutr	3
M S 6a	2nd Yr Basic	<u>2</u>	Zool 25	Genl Animal Biology	4
		15	M S 6b	2nd Yr Basic	<u>2</u>
					19

*Students desiring to study advanced chemistry (except Chemistry 37) are advised to take Chemistry 1a and 1b.

Junior Year					
First Semester			Second Semester		
Course		Credits	Course		Credits
Bact 52	Prin of Bacteriology	4	Group A Electives		6
Fm Ec 110	Farm Management	3	Electives		<u>11</u>
M&RF 100	Agricul Marketing	3			17
*Group A Electives		3			
Electives		<u>4</u>			
		17			

Senior Year

Electives 34 credits
Total required for graduation 136 hours

*The Group A electives, from which 9 hours must be selected, are as follows: Anthropology 1 and 2, General Anthropology; Art A, An Introduction to the Humanities through the Study of Art; Economics 3, Economic History of the United States; Economics 105, Money and Banking; English 6, Elements in Public Speaking; English 130 a, Comparative Literature; Geography 10, Economic Geography; Geography 122, Advanced Climatology; History 10a, or Political Science 10a, American Civilization, 1607-1865; History 10b or Political Science 10b, American Civilization since 1865; History 120, Europe in the Twentieth Century; History 147, Recent History of the United States; Music A, An Introduction to the Humanities through the Study of Music; Philosophy 21, Introduction to Philosophy; Philosophy 31, Logic; Political Science 51, American Government; Political Science 165, World Politics; Political Science 170, Political Parties; Political Science 173, Public Opinion; Psychology 1a and 1b, Introduction to Psychology; Sociology 3a and 3b, or Geography 3a and 3b, Societies around the World; Sociology 101, The Family.

Summary of the General Curriculum

Required courses in agriculture	33 hours
Required courses, non-agriculture	45 hours
Group A electives	9 hours
Electives in agriculture	27 hours
Free electives	<u>22 hours</u>
	136 hours

Brief descriptions of the options follow.

Agricultural Entomology. Courses in the agricultural entomology option deal with beneficial and injurious insects, animal parasites, insects of the home and farm, including insects of fruit and garden crops, farm crop insects, animal parasites, insects of the home and flower garden, and bees. Students

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preparing for Agricultural Entomology should elect courses in zoology, botany, and chemistry and should take the first course in agricultural entomology before the junior year.

Agricultural Extension. Students preparing to be county agricultural or county club agents should elect courses in all agricultural departments, including agricultural extension. Other courses suggested are English, history, journalism, philosophy, political science, psychology, and courses in games and recreation. Work in the radio studios is recommended.

Agricultural Science. Students interested in preparing themselves for scientific careers in agriculture should elect the option in agricultural science. In preparation for this option, basic courses in science and mathematics, such as bacteriology, botany, chemistry, geology, physics, zoology, algebra, and trigonometry should be scheduled in the freshman and sophomore years. Properly selected electives in the four-year curriculum prepare the student for graduate work leading to the master's or doctor's degree.

General Agriculture. This option is for students who want a general course in agriculture. This may include work in all departments or courses may be concentrated in one department. Sixty hours of agriculture are required for graduation. Electives may be selected from any department in the University provided the necessary prerequisites are satisfied.

Vocational Agriculture. This option is designed primarily to prepare students to teach agriculture in public high schools under the provisions of the Federal Vocational Education Acts. The University of Kentucky has been designated as the institution in the state to educate teachers for this work. Students who select this option must have had farm experience. The 60 semester hours of agriculture required for qualification of teachers of vocational agriculture should be distributed throughout all departments. See the special curriculum.

Curriculum in Agricultural Economics Leading to the Degree of
Bachelor of Science in Agriculture

Freshman Year					
<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
M&RF 30 Sources & Uses of Agricultural Data		2	Fm Ec 1 Agricultural Econ		3
Bot 25 Plant Biology		3	Chem 4a General Chem		4
A I 1 Farm Livestock Prod		3	Agron 1 Elem Fm Crops		3
Eng 1a English Composition		3	Geog 10 Econ Geography		3
Econ 3 Econ Hist of U S		3	Eng 1b English Comp		3
Math 17 College Algebra		3	M S 1b 1st Yr Basic		2
M S 1a 1st Yr Basic		2	Phy Education		0
		<u>19</u>			<u>18</u>

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Sophomore Year

<u>First Semester</u>		<u>Second Semester</u>	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
Econ 1 Prin of Economics	3	Com 7a Prin of Account	3
Zool 25 Animal Biology	4	A I 61 Genetics	3
Chem 4b General Chemistry	4	A I 81 Prin of An Nutrit.	3
Eng 30 Bus English	2	R. S 10 Introd to Rur Soc	3
Free electives	3	Agron 10 Soils	3
M S 6a 2nd Yr Basic	2	M S 6b 2nd Yr Basic	2
	<u>18</u>		<u>17</u>

Junior Year

<u>First Semester</u>		<u>Second Semester</u>	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
F E 110 Fm Management	3	F E 115 Fm Accounting	3
M&RF 100 Agr Marketing	3	or	
M&RF 110 Agr Prices	3	Com 7b Prin of Account	3
M&RF 130 Agr Statistics	3	M&RF 140 Agr Policy	3
Com 109a Bus Law	3	F E 120 Land Economics	3
Free electives	2	Bact 52 Prin of Bact	4
	<u>17</u>	Free Electives	4
			<u>17</u>

Senior Year

Electives (minimum) courses in agriculture.	10 hours
Electives (minimum) courses in Group A	12 "
Additional free electives	8 "
	<u>30 "</u>

Summary of the Agricultural Economics Curriculum

Required courses in agriculture	44 or 41 hours
Required courses in other colleges	49 or 52 "
Electives (minimum) courses in agriculture	10 "
Electives (minimum) courses in Group A	12 "
Free electives	21 "
Total	<u>136 "</u>

Brief descriptions of the options follow.

Farm Economics and Rural Sociology. Courses in this option deal with the economics of production in agriculture, including farm costs and accounting; farm management and the factors underlying profitable farming; land economics, land values and land appraisal; the human and community problems of farm life, population, rural leadership, social attitudes, and social change.

Markets and Rural Finance. The option in markets and rural finance provides training in the economics of agricultural markets, prices, cooperation, and finance, and includes the relation of agriculture to government.

College of Agriculture and Home Economics con'dCurriculum in Animal Industry Leading to the
Degree Bachelor of Science in Agriculture

Freshman Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
A I 1	Farm Livestock Prod	3	A I 41	Farm Poultry Prod	3
A I 21	Farm Dairying	3	Agron 1	Elem Farm Crops	3
Eng 1a	English Composition	3	Eng 1b	English Composition	3
Math 1	Basic Mathematics	3	Zool 25	Genl Animal Biology	4
Chem 1a	Genl Chemistry	5	Chem 1b	Genl Chemistry	5
or			or		
Chem 4a	Genl Chemistry	4	Chem 4a	Genl Chemistry	4
M S 1a	1st Yr Basic	2	M S 1b	1st Yr Basic	2
	Physical Education	0		Physical Education	0
		19			20

Sophomore Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
Bot 1a	Genl Botany	3	Bot 1b	Genl Botany	3
Econ 1	Prin of Economics	3	Agron 10	Soils	3
Chem 37	Organic Chemistry	4	Fm Ec 1	Agr Economics	3
Fm Eng 1	Mech of Farmstead	3	A I 81	Prin Animal Nutr	3
A I 61	Genetics	3	Bact 52	Genl Bacteriology	4
M S 6a	2nd Yr Basic	2	M S 6b	2nd Yr Basic	2
		18			18

Fifth thru Eighth Semester

M & R F 100	Agricultural Marketing	3
Electives in Group A		6
Minimum option requirement		
(Courses in either Animal Husbandry, Dairy or Poultry, not open to Freshmen)		14
Additional Courses in Agriculture (Subject to approval of major adviser)		19
Electives		19
Total		136

The following options are available for students in the animal industry curriculum:

Animal Husbandry. The animal husbandry option offers courses in animal breeding, feeding, selection, and management, as well as specialized courses in meats and the production of sheep, swine, beef, cattle, horses and mules.

Dairy Production. Courses in dairying place special emphasis on technical subject matter as a supplement to practical experience. In this option instruction is offered in breeding, selection, feeding, and management of dairy cattle.

Dairy Manufactures. Specialized instruction is offered in dairy bacteriology and its relationship to processing market milk, butter, cheese, and ice cream.

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Poultry. The poultry option offers instruction in breeding, culling and selection, incubation and brooding, rearing of chicks, hatchery management, feeding, disease control, marketing poultry products, and game bird propagation.

Curriculum in Horticulture Leading to the
Degree Bachelor of Science in Agriculture

Freshman Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
Bot 1a	General Botany	3	Bot 1b	Genl Botany	3
Geol 3	Elem Geology	3	Hort 1	Genl Horticulture	3
Eng 1a	English Composition	3	Eng 1b	English Composition	3
Math 1	Basic Mathematics	3	Chem 4a	Genl Chemistry	4
Zool 25	Genl Animal Biology	4	or		
M S 1a	1st Yr Basic	2	Chem 1a	Genl Chemistry	5
	Physical Education	0	Agr Ent 1	Agr Entomology	3
		<u>18</u>	M S 1b	1st Yr Basic	2
				Physical Education	0
					<u>18</u>

Sophomore Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
Econ 1	Prin of Economics	3	Fm Ec 1	Agr Economics	3
Chem 4b	Genl Chemistry	4	Chem 37	Organic Chemistry	4
or			Agron 10	Soils	3
Chem 1b	Genl Chemistry	5	Agron 11	Soils Laboratory	2
Agron 1	Elem Farm Crops	3	Agron 23	Plant Pathology	4
Bact 52	Prin of Bacteriology	4	M S 6b	2nd Yr Basic	2
Hort 2	Prin of Spray Pract	2			<u>18</u>
M S 6a	2nd Yr Basic	2			
		<u>18</u>			

Fifth thru Eighth Semester

M & R F 100	Agricultural Marketing	3
Group A	electives	6
Minimum option requirement		
(Courses in Pomology and Vegetable Gardening, not open to freshmen)		14
Electives in agriculture		
(Subject to approval of major adviser)		20
Free electives		21
Total		136

Curriculum in Ornamental Horticulture Leading to
the Degree Bachelor of Science in Agriculture

College of Agriculture and Home Economics con'd

Freshman Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Courses</u>		<u>Credits</u>
Art 61	Drawing	3	Art 61b	Drawing	3
Bot 1a	Genl Botany	3	Bot 1b	Genl Botany	3
Eng 1a	English Composition	3	Eng 1b	English Composition	3
Agr Ent 1	Agricul Entomology	3	Math 1	Basic Mathematics	3
En Dr 2	Mech Drawing	2	Hort 1	Genl Hort	3
M S 1a	1st Yr Basic	2	M S 1b	1st Yr Basic	2
	Physical Education	0		Physical Education	0
		<u>16</u>			<u>17</u>

Sophomore Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Courses</u>		<u>Credits</u>
Econ 1	Prin of Economics	3	Chem 4b	Genl Chemistry	4
Chem 4a	Genl Chemistry	4	Agron 10	Soils	3
Geol 3	Elem Geology	3	Agron 11	Soils Laboratory	2
Fm Eng 1	Mech of Farmstead	3	Fm Ec 1	Agr Economics	3
Hort 2	Prin of Spray Prac	2	Hort 20	Floriculture	2
M S 6a	2nd Yr Basic	2	M S 6b	2nd Yr Basic	2
		<u>17</u>			<u>16</u>

Fifth thru Eighth Semester

Agron 12	Soil Conservation	3
Agron 23	Plant Pathology	4
Agr Ent 103	Economic Entomology	3
Hort 120	Landscape Gardening	4
Hort 121	Adv Landscape Gardening	3
Hort 122	Floriculture	2
Hort 123	Plant Propagation	3
Hort 124a-c	Special Problems	9
Hort 125	Plants and Planting Material	2
	Free Electives	31
	Electives in Agriculture	6

Total 136

*Curriculum in Vocational Agriculture Leading to the
Degree Bachelor of Science in Agriculture

Requirements in the freshman and sophomore years are the same as those in the General Curriculum.

*Also students may qualify to teach vocational agriculture by taking the curriculum in Animal Industry or the curriculum in Horticulture, with the slight adaptation suggested by their adviser. The same education courses will be required as above.

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		Junior Year	
		First Semester	Second Semester
Course		Credits	Course Credits
Fm Ec 110	Farm Management	3	Bact 52 Prin of Bacteriology 4
M&RF 100	Agric Marketing	3	Group A Electives 6
	Group A Electives	3	Fm Eng 4 Farm Shop 3
Fm Eng 3	Farm Structural Eng.	3	Electives 4
	Electives	5	17
		17	

Senior Year

Either Semester: Ag. Ed. 181	12 hours
Ag. Ed. 182	3 hours
Ed. Psych 16	3 hours

Electives, 17 hours in the semester in which education is not taken.

The Group A electives from which 9 hours must be selected are the same as those listed in the General Curriculum.

Summary of the Vocational Agriculture Curriculum

Required courses in agriculture	33 hours
Electives in agriculture (including Farm Engineering 3 and 4)	27 hours
Group A electives	9 hours
Required courses in other subjects (not education)	45 hours
Education	*21 hours
Other credits	1 hour
Total	136

Pre-Professional Programs

Pre-Agricultural Engineering. Students preparing for the field of agricultural engineering may enter the College and take courses which will satisfy the requirements of the first year in most colleges offering the agricultural engineering degree. The prospective student should, upon entering the College, confer with the professor of agricultural engineering regarding courses that will be accepted by the college at which he plans to obtain a degree.

Pre-Forestry. Students who plan to prepare for work in forestry may enter the College and take courses which will satisfy the requirement of the first year at most professional forestry schools. These courses include botany, chemistry, English, engineering drawing, elementary forestry, and mathematics. Advanced work in basic sciences and wood utilization is offered to students who can qualify.

*In addition to the 18 hours listed in the senior year, Ag. Ed. 179. Determining Content is to be taken the first 2½ weeks of the summer school.

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Pre-Theological Major for the Rural Ministry. Many leaders in the work of the rural town and country ministry are today suggesting that some of the men who plan to enter this field of service should consider attending a college of agriculture in which a strong curriculum in rural social science is available, as an undergraduate preparation for seminary training. A student planning to enter a theological seminary and enrolling in a regular curriculum of the College of Agriculture and Home Economics may select from the general University offering a suitable group of courses in philosophy, English literature, and ancient languages. The student planning to elect this major is advised to acquaint himself with the specific requirements of the theological seminary of his choice.

Pre-Veterinary. Students planning to become veterinarians may enter the College and take the course required for admission to a college of veterinary medicine. The minimum requirement for entrance is one year of college work, some colleges requiring more. In general, the requirements include general chemistry, one year; English composition, one year; introductory zoology, one year; hygiene; and social science, one year. Recommended courses include foreign language, advanced chemistry, history, political science, botany, mathematics, psychology, English literature, speech, physics, and animal husbandry.

Two-Year Program in Agriculture

For high school graduates who plan to study agriculture in college as preparation for farming, but whose time is limited, a four-semester program is provided. In this program, subjects may be elected to provide general or special information concerning any phase of agriculture. The following regulations govern these programs:

1. Students must meet the University entrance requirements as either regular or special students.
2. Students may enter at the beginning of any semester.
3. When students register for the first time, they must state that they plan to follow this program.
4. All subjects in agriculture and in other colleges numbered 1 to 99 are open to students in this program under the conditions stated in the course descriptions.
5. Students may transfer to the degree curriculum at any time. However, courses taken without the designated prerequisites may not be counted toward a degree unless validated by special examination.
6. Upon the completion of 4 semesters of residence (these need not be consecutive), 68 semester hours and 68 grade points, the student may be awarded a certificate in agriculture.

Short Courses

Short courses, conferences, and workshops, ranging in duration from one day to several weeks are held for those interested in various phases of agriculture. The short courses planned for 1948 include courses for dairy fieldmen, sheep shearers, and poultrymen.

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Farm and Home Convention

The annual Farm and Home Convention is held on the campus of the University of Kentucky during the last week in January. Thousands of farm men and women from all over the state find these programs to be interesting and inspirational and of great value to them in planning and carrying on their work. A special bulletin giving the program is issued in December.

Graduate Work

All departments offer graduate work leading to the degree of Master of Science in Agriculture. The degree of Doctor of Philosophy may be earned in agricultural economics and rural sociology.

Requirements for Graduation in Home Economics

To receive the degree Bachelor of Science in Home Economics a student is required to gain a total of 136 semester hours and 136 points. These represent the minimum requirements for graduation. There are six curricula in home economics and a student who completes the requirements of any one of these qualifies for the degree. In all cases the student is responsible for meeting requirements for graduation.

Home Economics offers education for home and family living in a contemporary society. It includes liberalizing courses in the arts, humanities and sciences as well as technical education in the subject matter of the profession. The student in home economics receives the type of education which gives an understanding of citizenship in a community and responsibility in the family. Home Economics also provides education for some of the professions that deal with the home and family living. To that end, curricula are planned to serve as guides for major emphasis in specialized fields of work.

Faculty advisers are appointed by the Dean to assist students with their academic problems. These include choice of a curriculum, selection of elective courses, preparation of class schedules, and problems of employment. The normal academic load is 17 hours per semester. The maximum load is 23 hours and the minimum load for a full time student is 12 hours. Transfer students are required to take a minimum of 17 hours of home economics in the University.

The general curriculum in home economics meets the needs of most students and provides the basic requirements for the curricula in major fields. It enables the student to obtain a general education and at the same time pursue some specialization in a chosen field of home economics. Certain courses are required of all students while others are elective. The courses required for graduation are listed in the order they would normally be taken by students entering in the fall semester; some modification will be necessary for those entering in the spring or summer. Changes in a curriculum to meet specific needs may be made if approved in accordance with the rules of the University Faculty.

General Curriculum in Home Economics Leading to the
Degree Bachelor of Science in Home Economics

College of Agriculture and Home Economics con'd

Freshman Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
Art 30a	Intro to Art	2	Art 30b	Intro to Art	2
*Eng 1a	English Composition	3	Eng 1b	English Composition	3
H E 5	Foods	4	H E 6	Foods	3
H E 25	Textiles	2	H E 52	Intro to Child Devel	3
H E 51	Health of Family	3	H E 26	Cloth Selec & Cost Des	3
**Psy 1a	Intro to Psych	3	**Soc 1	Intro to Sociol (or)	3
	Physical Education	0	R S 10	Rural Sociology	3
		17		Physical Education	0
					17

Sophomore Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
***Chem 4a	Genl Chemistry (or)	4	***Chem 4b	Genl Chemistry (or)	4
***Chem 1a	Genl Chemistry	5	***Chem 1b	Genl Chemistry	5
A & P 5	Physiology	3	H E 3	Food & Nutrition	3
Econ 1	Prin of Econ	3	H E 61	Housing	3
	Electives	7		Journalism or Oral English	3
		17		Electives	4
					17

Junior and Senior Years

H E 102	Dietetics	3
H E 129	Interior Decoration	3
H E 154	Family Living	3
H E 161	Consumer Problems	3
H E 162a,b	Home Management	5
Phys 51a	Intro to Phys	3
Home Economics electives		18
Area electives		24
Free electives		6
		68

Total required for graduation

136

Curricula for Majors

In addition to the general curriculum, provision is made for majors in the following fields: 1. Child Development and Family Living; 2. Clothing,

*The requirement in whole or in part for English 1a and 1b may be satisfied without credit by passing a departmental proficiency examination. Students deficient in English, as indicated by the freshman tests, are required to pass English D (with no credit) before taking English 1a.

**Students deficient in mathematics, as indicated by the freshman tests, are required to pass Mathematics 1 before taking chemistry and should postpone either psychology or sociology.

***Students planning to study advanced chemistry (except Chemistry 37) should take Chemistry 1a and 1b.

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Costume Design, Textiles and Interior Decoration; 3. Home Economics Extension; 4. Institution Economics; and 5. Vocational Home Economics.

Curriculum in Child Development and Family Living
Leading to the Degree Bachelor of Science in Home Economics

This curriculum prepares a student for homemaking, nursery school teaching fellowships, or future specialization in the field of child development and family living.

Basic courses (see general curriculum)	77 hours
Major electives in home economics	18 hours

Select, with the advice of the major advisor,
at least 18 credits from this group:

H E 27	Clothing Construction	4 hours
H E 150	Tech of Guidance for Pre-School Child	4 hours
H E 152	Child Care and Development	3 hours
H E 155	The Child and His Clothing	3 hours
H E.156	Play and Play Materials	2 hours
H E 157	Infant Development	2 hours
H E 158	Infant Nutrition	2 hours
H E 159a-c	Special Problems	6 hours

Major electives in supporting fields	24 hours
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Select, with the advice of the adviser,
at least 24 credits from the following:

Education
Sociology
Psychology
Library Science

Free electives	17 hours
total	136 hours

Curriculum in Clothing, Costume Design, Textiles and Interior
Decoration Leading to the Degree Bachelor of Science in Home Economics

This curriculum is designed for students who are interested in greater concentration of study than is possible in the general curriculum. Those desiring professional or business careers will find in this curriculum an opportunity to prepare for the teaching of home economics as well as to prepare for careers in commercial fields.

Basic courses (see general curriculum)	77 hours
Major electives in home economics	18 hours

Select, with the advice of the major adviser,
at least 18 credits from this group. The
ones starred are required.

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*H E 27	Clothing Construction	4
*H E 125	Adv Textiles	2
H E 126	Adv Costume Design	3
*H E 127	Adv Clothing	3
H E 130	Int Decoration Projects	2
H E 135	Decorative Textiles	2
H E 137	Tailoring	2
*H E 134	Economics of Clothing	2
H E 139	Adv Interior Decoration	2
H E 155	Child and His Clothing	2
H E 128a-c	Special Problems	6
H E 136a-c	Special Problems	6

Major electives in supporting fields 24 hours

Select, with the advice of the major adviser,
at least 24 credits from this group:

Education, Art, Journalism, Radio,
History, Commerce

Free Electives 17 hours
Total 136 hours

Curriculum in Home Economics Extension Leading to the
Degree Bachelor of Science in Home Economics

Basic courses (see general curriculum) 77 hours
Electives in home economics 18 hours

Select with the advice of the major adviser
at least 18 credits from the following:
(Starred courses are required.)

H E 27	Clothing Construction	4
*H E 73	Farm Home Problems	4
H E 127	Adv Clothing	3
H E 130	Interior Decoration Projec	2
H E 137	Tailoring	2
H E 152	Child Care & Development	3
H E 175	Rural Community Analysis	3
H E 105a-c	Experimental Cookery	3
H E 114	Food Preservation	3

Major electives in supporting areas 68 hours

Select with the advice of the major adviser
at least 24 credits from this group:
Agricultural Extension, Art, Education,
English, Farm Engineering, History,
Horticulture, Physical Education

Free electives 17 hours
Total 136 hours

College of Agriculture and Home Economics con'dCurriculum in Institution Economics Leading to the
Degree Bachelor of Sceince in Home Economics

Basic courses (see general curriculum)	77 hours
Major electives in home economics	18 hours

Select with the advice of the major adviser
at least 18 hours from this group. The ones
starred are required.

*H E 41	Institution Marketing	3
H E 42	Institution Foods	4
H E 140	The School Lunch	3
*H E 141	Institution Org & Mgt	3
H E 142a	Inst Administration	2
H E 143	Inst. Equipment	3
H E 145a-c	Special Problems	6
H E 103	Public School Nutr	3
H E 105a	Experimental Cookery	3
H E 106	Field Work in Nutrition	4
H E 107	Workshop in Nutrition	4
*H E 111	Adv Nutrition	6
*H E 112	Nutrition in Disease	4
H E 114	Food Preservation	3

Major electives in supporting fields	24 hours
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Select with the advice of the major adviser
at least 24 credits from the following:
Chemistry, Biology, Psychology, Education

Free electives	17 hours
Total	136 hours

Curriculum in Vocational Home Economics Leading to the
Degree Bachelor of Science in Home Economics

Requirements in the freshman year are the same as those in the General
Curriculum.

Sophomore Year

<u>First Semester</u>			<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>	<u>Course</u>		<u>Credits</u>
*Chem 4a	Genl Chemistry (or)	4	*Chem 4b	Genl Chemistry (or)	4
Chem 1a	Genl Chemistry	5	Chem 1b	Genl Chemistry	5
A & P 5	Physiology	3	H E 11	Food & Nutrition	3
Econ 1	Prin of Econ	3	H E 61	Housing	3
H E 27	Clothing Construction	4	Journalism or Oral English		3
	Electives	3	Eng. Elective		3
		<u>17</u>			<u>16</u>

*Students planning to study advances chemistry (except Chem 37) should take
Chemistry 1a and 1b.

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		<u>Junior Year</u>				
<u>First Semester</u>				<u>Second Semester</u>		
<u>Course</u>		<u>Credits</u>		<u>Course</u>	<u>Credits</u>	
H E 102	Dietetics	3		Ed 160	Tech Teach H E	4
H E 127	Adv Clothing	3		H E 162a	Home Manage Lect	2
H E 129	Interior Decoration	3		H E 130	Interior Dec Proj	2
H E 161	Consumer Problems	3		Bact 52	Bacteriology	4
Ed 147	The Secondary School			R S 10 or other	Sociology	3
	Pupil	2		H E 137	Tailoring (H E elec)	2
Electives in history, govern-						17
ment or English		3				
		17				

Senior Year

*H E 162b	Home Management Laboratory	3	
*R S 160	Rural community Analysis	3	
*Ed 101	School Organization	3	
*Ed 162	Student Teaching in H E	6	
*Ed 165	Adult Ed in H E	3	
H E 154	Family Living	3	
H E 140	School Lunch	3	
H E 114	Food Preservation	3	
	(Recommended as elective, summer only)		
Electives		8	
		35	
Total			136

Graduate Work

The Department of Home Economics offers graduate work leading to the degree of Master of Science in Home Economics.

AGRICULTURAL ENTOMOLOGY

Walter Allen Price and Lee Hill Townsend

1. AGRICULTURAL ENTOMOLOGY. (3) I, II, S Townsend

A general consideration of the fundamentals of insect structure, biology, and classification, with frequent discussions of current topics relating to both beneficial and destructive insects. No prerequisite. Lectures, 2 hours; laboratory, 2 hours.

2. APICULTURE. (3) II Price and Townsend

The anatomy of the bee; the colony; location and equipment of the apiary; production of comb and extracted honey; diseases and enemies of bees. much of the laboratory work has to do with manipulation of beekeeping equipment and with the bees themselves. No prerequisite. Lectures, 2 hours; laboratory, 2 hours.

*Must be taken the same semester; either semester in senior year.

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3. ECONOMIC ENTOMOLOGY: HOUSEHOLD INSECTS. (2) I Townsend

Life histories, habits and control of the more common insects which are injurious and troublesome in the home. Consideration is also given to certain other insects which have public health importance. No prerequisite. Lectures, 2 hours.

102 ECONOMIC ENTOMOLOGY. (3) S Townsend

Especially planned for those intending to take up vocational agricultural teaching and county agent work. The life history, control, and means of identification of the common and important economic insects of Kentucky are considered. The making and care of school collections, cages, etc., are described. Lectures, 2 hours; laboratory, 2 hours.

103 ECONOMIC ENTOMOLOGY: FRUIT AND GARDEN INSECTS. (3) I Townsend

Life histories, habits, distribution, and control of insects injurious to fruit and garden crops, with special attention to those species found in Kentucky. The various diseases, parasites, and predators of these injurious species are also given attention. Lectures, 2 hours; laboratory, 2 hours. Prerequisite: A. E. I.

104 ECONOMIC ENTOMOLOGY: FARM CROP INSECTS (3) II AND ANIMAL PARASITES. Townsend

Life histories, habits, distribution, and control of insects injurious to common farm crops including those of stored grain and forage; also insect parasites of the common farm animals. The various diseases, parasites, and predators of these injurious species are given attention. Lectures, 2 hours; laboratory, 2 hours. Prerequisite: A E I

105a-b SYSTEMATIC AND TECHNICAL AGRICULTURAL (3 ea.) I, II ENTOMOLOGY. Townsend

Insect physiology, anatomy, ecology, and taxonomy; entomological literature and technique; studies of special groups of insects. Time to be arranged. Prerequisite: A. E. I and any of the following: 102, 103, 104.

201a-b ENTOMOLOGICAL PROBLEMS. (3 ea.) I, II Price

Investigations of chosen insect problems, including original work. Discussion and assignment of current insect subjects. Time to be arranged. Prerequisite: A. E. 102, 103, 104, 105.

AGRICULTURAL EXTENSION

Thomson Ripley Bryant

101 METHODS IN AGRICULTURAL EXTENSION. (1) II Bryant

Methods used in Extension Work in agriculture and home economics: organization, administration, and financing; cooperating agencies; proper relationships; organizing the working forces; and methods of making effective programs of work. Lecture, 1 hour.

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AGRONOMY 1948-'49

Edmund J. Kinney, Ernest N. Fergus, Perry E. Karraker, James B. Kelley, Paul M. Phillippe, William G. Survant, Courses in Crops. William D. Valleau, Earl H. Young

1. Elementary Farm Crops (3) I, II, S. Phillippe
A survey course considering geographical distribution, science of production and uses of important field crops. Lectures and recitations, 2 hours; laboratory, 2 hours.
2. Market Grain Grading. (2) II, S. Phillippe
Studies of federal classes and grades of market grains. Laboratory, 4 hours. Prerequisite: Agron. 1.
103. Weeds (2) II, S. Phillippe
The important characteristics, identification and control of weeds, with emphasis on identification and control of Kentucky weeds. Lectures and discussion, 2 hours. Prerequisite: Botany 1b.
104. Advanced Crops: Forage Crops (3) I, S (alternate years) Fergus
A comprehensive study of forage crops with special emphasis upon their production in Kentucky. Lectures and recitations, 3 hours. Prerequisite: Agr. 1; Botany 1b.
105. Advanced Crops: Tobacco and Cereals. (3) II, S (alternate years). Kinney
Tobacco and the important cereal crops are studied in considerable detail as regards distribution, soil and climatic adaptations and technique of production. Lectures, 3 hours. Prerequisites: Agron. 1; Botany 1b.
106. Field Crop Improvement (3) II. Kinney
A study of the principles involved and the technique used in breeding crop plants. Lectures and recitations, 3 hours. Prerequisites: Botany 1b, Agron. 1, A.I. 61.
- 204 a,b Special Problems in Production of Forage Crops (3-3) II, S Fergus and Phillippe
Intensive studies of research relative to particular problems in forage crop production. Prerequisite: Approval of instructor.
- 205 a,b Special Problems in Production of Tobacco or Cereals. Kinney
(3-3) II, S
Prerequisite: Approval of Instructor.
- 200 a,b Agronomy Seminar. (1 ea.) I, II, Agron. Staff

Courses in Plant Pathology

23. Plant Pathology (4) II Diachun
A general survey of the causes, effects of, and methods of control of plant diseases. Recitations, 2 hours; laboratory, 4 hours. Prerequisites: Botany 1b.

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Courses in soils

10. Soils. (3) I, II Survant
A general study of the origin, classification, proper ties, and management of soils. It is desirable that students take Agronomy 11 concurrently. Lecture and recitation, 3 hours. Prerequisite: Chemistry 1b or 4b.
11. Soils Laboratory. (2) I, II Survant
Laboratory and field exercises dealing with important soil properties and processes, designed to accompany Agronomy 10. Two 2-hour laboratory periods. Prerequisite or parallel: Agronomy 10.
12. Soil Conservation. (2) I, II Survant
A study of the scope and nature of the soil conservation problem, and the application of soil conserving methods to the planning and management of individual farms. Lecture and recitation, 2 hours. Prerequisite; Agron. 10.
110. Soil Biology. (3) I _____
A study of soil organisms and biological soil processes in relation to soil productivity. Lecture, 1 hour, Laboratory, 4 hours. Prerequisite: Agron. 10; Bacteriology 52.
- 112a,b. Special problems in Soils. (3,3) I, II, S. Karraker and Survant
Intensive studies of specific soil problems. Prerequisite; Agronomy 10 and approval of instructors.
113. Experimental Methods and Interpretation of Results. (3) II. Roberts
A study of the essentials of reliable experimentation, including sources of error; a study of experimental data with emphasis on interpretation. Prerequisite: Agronomy 10.
114. Fertilizers and Soil Management. (3) II. Karraker
Sources, manufacture, evaluation, and use of fertilizers and lime materials; soil moisture, tillage, and soil organic matter and nitrogen. Lectures and recitations, 3 hours. Prerequisite: Agronomy 10.
119. Soil Origin, Classification and Mapping. (3) II. _____
Factors and processes of soil formation, characteristics and agricultural significance of the great soil groups, classification of soils, and the nature, use and preparation of soil maps. Lectures and recitations, field work by appointment. Prerequisite: Agron. 10 and approval of instructor.
- 200a,b. Agronomy Seminar. (1 each) I, II. Agronomy Staff
- 212a-d. Research in Soils. (3 each) I, II, S Karraker
Prerequisite: Approval of instructor.

Courses in Farm Engineering

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1. Mechanics of the Farmstead. (3) I, II, S Kelley and Young
A study of the fundamentals of engineering as applied to agriculture. The course includes the following subjects: Mechanics of Materials, Transmission of Power, Farm Implements, Farm Sanitation Equipment, and Farm Electrical and Heating Problems. Lectures and recitations, 2 hours; laboratory, 2 hours.
2. Farm Motors. (3) II Kelley and Young
A study of the fundamental principles governing the selection, construction, operation, and repair of motors, tractors, and tractor equipment adapted for farm use. Lectures and recitations, 2 hours; laboratory, 2 hours.
3. Farm Structural Engineering. (3) I, S (alternate years) Young
A combination drawing and shop course in the construction, care, and repair of farm buildings and equipment. Includes study and practice in drawing, use of lumber, farm woodworking, use and care of woodworking tools and concrete work. Lecture, 1 hour; laboratory, 4 hours.
4. Farm Shop. (3) II, S (alternate years) Young
Principles and practices in farm metal work including cold metal work, forging, oxyacetylene and electric arc welding, pipe fitting, machinery repair, soldering, leather work, rope work and painting. Shop exercises and projects in repair and construction of farm equipment. Lecture, 1 hour; laboratory, 4 hours.
- 101a,b,c. Special Problems. (2) I, II, S Kelly and Young
This course is designed to permit advanced students to make an intensive study of some phases of Agricultural Engineering in which they are particularly interested. May be taken only with the approval of the instructor.
102. Dairy Engineering. (2) II Kelley
A study of the engineering principles involved in the construction, installation, operation, and management of machinery and equipment used in the handling and manufacturing of dairy products. Lectures and recitations, 2 hours; Prerequisite; F.E. 1.
104. Rural Electrification (2) II Kelley
This course is designed to give students information on how to obtain electric service and on the problems involved in the selection, operation and care of electrical equipment in the home and on the farm. Open to juniors and seniors. Lectures and recitations, 2 hours.
105. Engineering Practices in Water Management. (3) II Kelley
Surveying, Mapping, and determining areas of farm land: designing farm drainage systems; farm reservoirs; problems in controlling water erosion with terraces and other mechanical structures. Lectures, 1 hour; laboratory, 4 hours.

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ANIMAL INDUSTRY

Wesley Patterson Garrigus, John Orville Barkman, Fordyce Fly, Richard Mather Forbes, Wyatt Marion Insko, Jr., Forrest Dwight Johnson, Henry Bartlett Morrison, Dewey G. Steele, Ernest Thomas Wightman, and Edward James Wilford

Courses in Animal Husbandry

- 1 FARM LIVESTOCK PRODUCTION (3) I, S Johnson
Types, market classes, and grades of beef cattle, sheep, swine, horses, and mules; the origin, development, and characteristics of the more important breeds; importance and place of livestock in Kentucky agriculture. Lecture, 2 hours; laboratory, 2 hours.
- 2 LIVESTOCK JUDGING (3) II, S Johnson
Evaluation of purebred and commercial beef cattle, sheep, swine, draft horses, and mules. Practice in writing reasons and in giving reasons orally. Laboratory, 6 hours. Prerequisite; A.I.1. Not open to freshmen.
- 3 LIVESTOCK MANAGEMENT. (1) II Johnson
Practice in working out livestock management problems with approved equipment, materials, and methods. Laboratory, 2 hours. Prerequisite; A.I.1.
- 4 ADVANCED LIVESTOCK MANAGEMENT (1) I Johnson
Intensive training in approved livestock management practices with emphasis on the preparation of animals for show and sale. Laboratory, 2 hours. Prerequisite: A.I.3.
- 5 LIGHT HORSE HUSBANDRY (3) II Garrigus
A brief study of the breeds of light horses; selection, feeding, and management; fundamental instruction in equitation. Lecture, 2 hours; laboratory, 2 hours. Not open to freshmen.
- 6 FARM BUTCHERING AND MEAT CURING (4) I, II Wilford
Slaughtering and cutting of beef, veal, hog, and lamb carcasses into wholesale, minor wholesale, and retail cuts; correlation of breeding and feeding with carcass values; meat curing, with special emphasis on pork. Lecture, 2 hours; laboratory, 4 hours. Prerequisite: A.I.1. Not open to freshmen.
- 7 IDENTIFICATION AND EVALUATION OF MEATS (1) I Wilford
Meat cutting, identification, selection, grading and judging with emphasis on the nutritional and economic values of the different grades and cuts of meats. Laboratory, 2 hours. Not open to freshmen.
- 8 RETAIL MEATS (1) II Wilford
A study of meat cutting and processing methods; cut-out values, consumer preferences, and processing meats for freezing. Laboratory, 2 hours. Prerequisite: A.I.6.
- 100 ANIMAL BREEDING (3) II Steele
History of animal improvement; survey of hereditary traits in livestock; inbreeding and outcrossing; progeny tests and herd analysis. Lecture, 3 hours. Prerequisite; A.I.1, A.I.61.

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- 102 ADVANCED LIVESTOCK JUDGING (3) I Johnson
Primarily for judging team candidates. Open only to those who have made good standings in the prerequisite courses. Laboratory, 6 hours. Prerequisites: A.I.1, A.I.2, and approval of instructor.
- 103 WORK STOCK PRODUCTION (3) I
History and importance of the horse and mule industry; selection, breeding, feeding, and management of horses and mules. Lecture, 2 hours; laboratory, 2 hours. Prerequisite: A.I.1 and A.I.81.
- 104 SHEEP PRODUCTION (3) II Garrigus
History and importance of the sheep industry; selection, breeding, feeding, and management of sheep; production and handling of wool. Lecture, 2 hours; laboratory, 2 hours. Prerequisite: A.I.1 and A.I.81.
- 105 BEEF PRODUCTION (3) II Garrigus
History and importance of the beef cattle industry; selection, breeding, feeding and management of beef cattle. Lecture, 2 hours; laboratory, 2 hours. Prerequisite: A.I.1 and A.I.81.
- 106 PORK PRODUCTION (3) I Wilford
History and importance of the swine industry; selection, breeding, feeding, and management of swine. Lecture, 2 hours; laboratory, 2 hours. Prerequisite: A.I.1 and A.I.81.
- 108 MEAT JUDGING (1) I Wilford
Intensive instruction in the evaluation of carcasses and cuts of beef, veal, pork, and lamb. Laboratory, 2 hours. Prerequisite: A.I. 6.
- 109a-c SPECIAL PROBLEMS IN ANIMAL HUSBANDRY Animal Husbandry Staff
(3 ea.) I, II, S
Approval of instructor required.
- 200a-c ANIMAL INDUSTRY SEMINAR. (1 ea.) I, II Staff
- 201a-c RESEARCH IN MEATS (3 ea.) I, II, S Wilford
Problems involving original investigation.
- 203a-c RESEARCH IN HORSE HUSBANDRY (3 ea.) I, II, S
Problems involving original investigation.
- 204a-c RESEARCH IN SHEEP HUSBANDRY (3 ea.) I, II, S Garrigus
Problems involving original investigation.
- 205a-c RESEARCH IN BEEF CATTLE HUSBANDRY (3 ea.) I, II, S Garrigus
Problems involving original investigation.
- 206a-c RESEARCH IN SWINE HUSBANDRY (3 ea.) I, II, S Wilford
Problems involving original investigation.

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Courses in Dairying

- 21 FARM DAIRYING (3) I, II Ely and Morrison
The place of dairying in agriculture; factors affecting the secretion, composition, physical and chemical properties of milk and cream; the food value of dairy products; common dairy calculations; clean milk production; common farm dairy processes, such as separation, churning and storage of dairy products. Lectures, 3 hours.
- 22 JUDGING DAIRY PRODUCTS (2) I Barkman
A study of the accepted standards of judging market milk, butter, ice cream, cheese, and starters; practice in scoring these products in accordance with standard methods. Lecture, 1 hour; Laboratory, 2 hours.
- 23 JUDGING DAIRY CATTLE (3) II Ely
Selection of sires, cows, and heifers with due consideration for breed and dairy type; application of the principles involved in the problem of herd improvement. Laboratory, 6 hours. Prerequisite: A.I.21.
- 120 DAIRY CATTLE BREEDING (3) II Ely
The application of genetics to present day problems of breed and herd improvement; the progeny testing of sires; type classification, selective registration; the rise and fall in popularity of prominent families and strains within the leading dairy breeds. Lecture, 2 hours; laboratory, 2 hours. Prerequisite: A.I.61.
- 121 DAIRY CATTLE FEEDING AND MANAGEMENT (3) I Ely
The application of the principles of nutrition to dairy cattle feeding; current methods contributing to maximum efficiency in the production of quality dairy products on the farm. Lectures, 2 hours; laboratory, 2 hours. Prerequisite: A.I.81 or 181.
- 122 ADVANCED DAIRY CATTLE JUDGING (3) I Ely
Primarily for judging team candidates. Open only to those who have made good standings in the prerequisite courses. Lectures and laboratory by appointment. Prerequisites: A.I.21 and A.I.23.
- 123 DAIRY BACTERIOLOGY (2) I Morrison
The application of bacteriological principles to the production and processing of milk and other dairy products, involving entrance of micro-organisms into dairy products, effects of their growth and methods for their control. Lectures, 2 hours. Prerequisite: Bact. 52 or 102.
- 124 DAIRY BACTERIOLOGY LABORATORY (2) I Morrison
Laboratory to accompany A.I. 123, Dairy Bacteriology. Laboratory, 4 hours. Prerequisite or concurrent: A.I.123
- 125 BUTTER AND ICE CREAM (5) I Barkman
The principles involved in the commercial manufacture, handling, and storage of butter and ice cream. Lecture, 3 hours; laboratory, 6 hours. Prerequisite: A.I.21.

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- 126 MARKET MILK AND CHEESE (5) II Morrison
The principles involved in the processing of milk in a modern milk plant to include laboratory practice in receiving, various quality tests, pasteurizing methods. The course also to include a study of the problem involved in the manufacture of several types of hard and soft cheese. Lecture, 3 hours; Laboratory, 6 hours. Prerequisite; A.I.21.
- 128 TECHNICAL CONTROL OF DAIRY PRODUCTS (3) II Morrison
Various chemical and bacteriological tests used in the control of production or processing of dairy products. Laboratory and recitation, 6 hours. Prerequisites: A.I. 21, 123, 124.
- 129a-c SPECIAL PROBLEMS IN DAIRYING (3 ea.) I, II, S Dairy Staff
Approval of instructor required.
- 221a-c RESEARCH IN DAIRYING (3 ea.) I, II, S Ely and Morrison
Problems involving original investigation in either dairy production or dairy manufacturing.

Note: See also A.I.200, Animal Industry Seminar.

Courses in Poultry Husbandry

- 41 FARM POULTRY PRODUCTION (3) II, S Wightman
Principles of poultry husbandry, breeds and poultry improvement; selection and culling; incubation and brooding; feeding, housing, and disease control; marketing poultry products. Lecture, 2 hours; laboratory and demonstration, 2 hours.
- 43 HATCHERY MANAGEMENT (3) II Wightman
Principles involved in operating incubators and brooders; hatchery operation and management; factors influencing the avian embryo; practice in the operation of commercial incubators. Lecture, 2 hours; laboratory, 2 hours. Prerequisite: A.I. 41 and approval of instructor.
- 44 POULTRY JUDGING (3) II Wightman
Practice in selection of breeding stock as a basis for flock improvement, including breed type and production values. Lecture, 1 hour; laboratory, 4 hours. Prerequisite: A.I.41.
- 140 POULTRY BREEDING (3) I Wightman
Genetic principles involved in poultry breeding; disease resistance; inheritance of egg production and related characters; Development of breeding programs. Lecture, 3 hours. Prerequisite: A.I.41 and A.I.61.
- 141 ADVANCED POULTRY PRODUCTION (3) I, S Wightman
Studies of control measures in poultry diseases, nutrition, marketing; flock management and replacement. Lecture, 2 hours; laboratory and demonstration, 2 hours. Prerequisite; A.I.41.
- 142 MARKETING AND PROCESSING POULTRY PRODUCTS. (2) I Wightman & Roberts
Organization and functioning of markets, methods of selling, prices, and price making forces are combined with laboratory instruction in grading, packaging, and handling poultry and eggs according to

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recognized commercial standards. Lecture, 1 hour; laboratory 2 hours. Prerequisite; A.I.41 and M.& R.F. 100. This is the same course as M.& R.F. 142.

- 145 ADVANCED POULTRY JUDGING (3) I Wightman
Primarily for judging team candidates. Open only to those who have made good standings in the prerequisite courses. Lecture, 1 hour; laboratory, 4 hours. Prerequisite: A.I. 41 and A.I. 44.
- 149a-c SPECIAL PROBLEMS IN POULTRY (3 ea.) I or II, S Wightman
Approval of instructor required.
- 241a-c RESEARCH IN POULTRY (3 ea.) I or II, S Wightman
Problems involving original investigation

Note: See also A.I.200, Animal Industry Seminar

Courses in Genetics

- 61 GENETICS (3) I, II, S Steele
The elementary principles of heredity and their relationship to plant and animal breeding. Attention is directed briefly to human heredity. Lecture, 3 hours. Prerequisite; At least one course in biology.
- 62 GENETICS LABORATORY (1) I, II Steele
Technic of Drosophila breeding; analysis of Mendelian ratios in corn; observation of chromosomes in mitosis and reduction. Laboratory, 2 hours. To be taken concurrently with A.I.61, at student's option.
- 161 GENETICS (3) I, II, S Steele
Lectures of A.I.61 and assigned readings. Primarily for graduate students. Lecture, 3 hours. Prerequisite: At least one course in biology.
- 162 GENETICS LABORATORY (1) I, II Steele
Similar to A.I.62 but additional work required. Primarily for graduate students. Laboratory, 2 hours. To be taken concurrently with A.I.161, at student's option.
- 163 ADVANCED GENETICS (3) II Steele
Concerned chiefly with the physical basis of heredity, mutations and chromosomal aberrations, linkage, genetics and development, and reports on current literature. Lecture, 3 hours. Prerequisite: A.I. 61 or A.I. 161.
- 169a-c SPECIAL PROBLEMS IN GENETICS (3 ea.) I, II, S Steele
Approval of instructor required.
- 261a-c RESEARCH IN GENETICS. (3 ea.) I, II, S Steele
Problems involving original investigation.

Note: See also A.I.100, Animal Breeding; A.I.120, Dairy Cattle Breeding; A.I.140, Poultry Breeding; and A.I.200, Animal Industry Seminar.

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- 81 PRINCIPLES OF ANIMAL NUTRITION (3) I, II
Digestion, absorption, assimilation and utilization of nutrients by domestic animals; principal feeds, rations, and nutritive ratios. Lecture, 3 hours. Prerequisite: Chem. 4a or 1a.
- 181 ANIMAL NUTRITION (3) I Forbes
The chemistry and physiology of animal nutrition and the nutritive requirements for growth, fattening, reproduction, lactation and other body functions. Lecture, 3 hours. Prerequisite: Chem 37 or equivalent.
- 182 LABORATORY METHODS IN ANIMAL NUTRITION (3) I Forbes
The use of laboratory techniques and equipment in the solution of fundamental problems of nutrition. Lecture and recitation, 1 hour; laboratory, 4 hours. Prerequisite or concurrent: A.I. 181.
- 183 ADVANCED ANIMAL NUTRITION (3) II Forbes
History and development of nutritional theories and techniques; a critical review of current literature. Lecture and recitation, 3 hours. Prerequisite: A.I. 181.
- 189a-c SPECIAL PROBLEMS IN ANIMAL NUTRITION. (3 ea.) I, II, S Forbes
Approval of instructor required.
- 281a-c RESEARCH IN ANIMAL NUTRITION (3 ea.) I, II, S Forbes
Problems involving original investigation.

DEPARTMENT OF ANIMAL PATHOLOGY

Floyd Edgar Hull and William Wallace Dimock

- 51 ANIMAL HYGIENE (3) I, II Hull and Dimock
A consideration of both general and specific measures designed to promote health and prevent diseases. Animal Hygiene includes feed and water, housing and ventilation, yards and pastures, sanitation and environment. All are part of the many problems to be considered in a program of animal health. Lecture, three hours.
- 101 ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS. (3) I Hull
Correlation of structure and function of the organs and systems of the animal body; a study of anatomy and physiology as related to work offered in courses in livestock judging, animal nutrition, butchering, animal breeding and infectious diseases. Lecture three hours.
- 102 INFECTIOUS DISEASES OF DOMESTIC ANIMALS. (3) II Dimock
Distribution, general nature, manner of dissemination, methods of control, prevention, and eradication of infectious and parasitic diseases of animals. Lecture, three hours. Prerequisite; A.P. 101.
- 104a-b SPECIAL PROBLEMS IN ANIMAL PATHOLOGY. (3 ea.) I, II Hull and Dimock
Prerequisite: A.P. 101, A.P. 102 and approval of instructor.
- 201a-b INVESTIGATIONS IN ANIMAL DISEASES. (3 ea.) I, II Hull and Dimock
This course is open only to persons who have degrees in veterinary medicine.

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FARM ECONOMICS

William Durrett Nicholls, Howard Wayland Beers, Lawrence Allen
Bradford, Harold F. Kaufman and Paul Sinclair McComas

- 1 AGRICULTURAL ECONOMICS (3) I, II, S. Bradford
A study of the agricultural industry in the United States, economic forces that affect agriculture from within and without, its place and importance, geography of agricultural production, land rents and land values, an elementary treatment of governmental programs. Prerequisite: Econ. 1.
- 110 FARM MANAGEMENT (3) I, II, S. Bradford
A study of organizing and managing farms. Factors affecting farm earnings. Individual farm organization and farm management problem assignments assist students in learning to apply the principles of business to farms. Prerequisite: F. E. 1.
- 111 ADVANCED FARM MANAGEMENT (3) I. Nicholls
A fuller study of the principles of farm management considered in course 110. Current and recent literature of farm organization and management will be studied and some consideration given to farm management as observed in European countries when such has a bearing on management principles in this country. Course fee \$15.00. Prerequisite: F. E. 110 and approval of instructor.
- 112a-c SPECIAL PROBLEMS IN FARM MANAGEMENT. (3 ea.) I, II, S. Nicholls
Students are assigned a special problem in the field of farm economics. Prerequisite: F. E. 110 and approval of instructor.
- 113 TYPES AND SYSTEMS OF FARMING (3) II Nicholls
A critical study of the business organization and management of successful Kentucky farms. Several field trips will be made to farms whose operators have achieved outstanding financial success while at the same time maintaining or increasing productivity of their farms. Course fee \$20.00. Prerequisite: F. E. 110 and approval of instructor.
- 115 FARM ACCOUNTING (3) II Bradford
A study of farm records and farm accounts including farm cost accounting. Prerequisite: F. E. 110.
- 120 LAND ECONOMICS (3) II McComas
A critical examination of the utilization of land resources in relationship to present and prospective needs. The course is developed around the topics of land utilization, reclamation, land classification, soil conservation, drainage, flood control and the institutional aspects of land management, taxation and land tenure. Prerequisite: F. E. 1 or approval of instructor.
- 121 LAND-USE PLANNING (3) II McComas
A study of the national needs and national policies which led to the land-use pattern; social and economic implications of the present destruction and loss of soil resources; contribution and limitations of land-use planning toward the development of socially desirable programs for the use of natural resources. Prerequisite: F. E. 120 or approval of instructor.

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- 122 LAND VALUE AND APPRAISAL (3) I Nicholls
The capitalization process, and other devices for valuing farm land; appraisal procedures of the Federal Land Banks and of other credit institutions. Course fee \$10.00. Prerequisite: F. E. 120 or approval of instructor.
- 130 PRODUCTION ECONOMICS (3) I, S. Bradford
Economic analysis of agricultural production. A theoretical treatment of land rents, land returns, capital returns, costs and similar functions of agricultural production. Prerequisite: R. E. 110.
- 200a-b AGRICULTURAL ECONOMICS SEMINAR (1) I, II Staff
Discussions and papers on methods, problems, current literature and research in the field of agricultural economics. Required of all graduate students in the department.
- 201a-c RESEARCH IN FARM ECONOMICS. (3 ea.) I, II, S. Nicholls and Staff
Assignment of an advanced problem in the field of farm economics. Stress is placed on the plan, technique, and scientific method used by the student in developing his research. Prerequisite: Approval of instructor.
- 202a,b ECONOMICS OF PRODUCTION AS APPLIED TO AGRICULTURE (3,3)II,S McComas
This course places emphasis upon the fundamental consideration essential to the study of production organization in the economy of modern agriculture. Theoretical analysis will be applied to such questions as the combination of the agents of production, scale and intensity of production, comparative advantage and interregional analysis, and to an evaluation of national agricultural policies and programs. Prerequisite: Approval of instructor.
- 203 COST, PRICE, AND PRODUCTION RELATIONSHIPS IN AGRICULTURE. (3) II, S. McComas
Consideration is given to the different concepts of cost which are encountered in the agricultural research field; considerable attention is paid the applicability of the traditional cost-price rationale in the agricultural industry. Prerequisite: Approval of instructor.
- 204 RESEARCH METHODS IN FARM MANAGEMENT (3) II McComas
An analytical examination of research methods and techniques used in farm management research. Topics include enterprise cost studies, detailed cost route method, experimental research method, statistical or comparative method, work simplification and methods of collecting information to be analyzed. Prerequisite: F. E. 110 and approval of instructor.

Courses in Rural Sociology

- 10 INTRODUCTION TO RURAL SOCIOLOGY (3) I, II Beers
Agriculture and culture; family, church, school, government, and trade in rural life; the person in relation to rural neighborhoods, communities, groups and agencies; cooperation and conflict; recreation, health and social welfare. Students in this course analyze their own experiences in comparison with situations described in assigned readings.

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- 115 ORGANIZATION OF RURAL GROUPS (3) II, S. Kaufman
A study of leadership, membership participation, and program planning in agricultural organizations and other organized rural groups. Prerequisite: An introductory course or consent of instructor.
- 125 RURAL MOVEMENTS AND SOCIAL POLICY (3) I.
A study of social factors involved in selected rural movements. Emphasis will be put upon the social needs in response to which the movements arose, the organization and development of the movements, and their influence upon state and federal policy. Prerequisite: An introductory course or consent of instructor.
- 160 RURAL COMMUNITY ANALYSIS (3) I, II. Kaufman
The nature of the town-country community and a study of programs for its development and the correlation of activities. Residence in a rural community during a part of the semester affords for those students for which it is possible laboratory experience in the application of principles developed during the period of residence in the college. Prerequisite: An introductory course or consent of Instructor.
- 180 ADVANCED RURAL SOCIOLOGY (3) I, S.
Selected historical factors in rural life in the United states; rural-urban differences; social differentiation, stratification, social processes. Each student applies the principles of the course in the analysis of a selected community. Prerequisite: An introductory course or approval of instructor.
- 190a-c SPECIAL PROBLEMS IN RURAL LIFE (2) I, II Staff
Supervised individual study in selected sub-fields of rural sociology. Population, standards of living, neighborhood and community change, and rural institutions are among the available fields for investigation. Prerequisite: An introductory course or consent of instructor.
- 200a-c RESEARCH IN RURAL SOCIOLOGY (2) I, II, S. Staff
Individual graduate research with correlated study of rural social research types and methods. Prerequisite: Introductory course in statistics.
- 210 SEMINAR IN RURAL ORGANIZATION (3) I Beers
Basic theories of social organization, comparative study of selected systems of rural social organization; examples of purposeful organization. Prerequisite: Approval of instructor.
- 220 SEMINAR IN RURAL ATTITUDES (3) II Kaufman
The nature and genesis of rural attitudes and their relation to rural social control; analysis of contemporary rural attitudes and opinion. Prerequisite: Approval of instructor.
- 230 RURAL URBAN RELATIONS (3) I
Study of the interdependence of city and country; solidary and antagonistic relationships of city and country; the process of urbanization, and problems of rural adjustment to urban influences. Prerequisite: Approval of instructor.

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- 250 TOPICAL SEMINAR (3) II Staff
Analysis of topics of scientific interest in rural sociology, selected from such fields as the following: criticism of contemporary research; sociological factors in land use; migration; rural social ecology of the South; highland societies; sociography of rural groups. Prerequisite: Approval of instructor.

HOME ECONOMICS

Statie Estelle Erikson, Marie Rodes Barkley, Leora Bentley,
Stella Elizabeth Helton, Mary Mumford, Frances Seeds,
Lottie Ellen Sumner, Roberta Seat Taylor, Helen
Wilmore, and Mary Carolyn Wooldridge

Courses in Foods and Nutrition

- 2 NUTRITION AND PUBLIC HEALTH (3) S Erikson
Nutrition as it affects social and family problems in the field of public health. Consideration is given to family food budget on different economic levels. Lecture and discussion, three hours.
- 3 FOOD PREPARATION AND ELEMENTARY NUTRITION (NURSES) Wooldridge
(4) I, II
Principles of food preparation and essentials of normal nutrition. Emphasis is placed on the selection, preparation and care of food in its relation to the health and effectiveness of individuals, families and social groups. Lecture, two hours; laboratory, four hours.
- 5 FOODS (4) I, II, S Barkley and Taylor
An introduction to the study of food. The course includes the classification and composition of foods and study of methods of preparation and principles involved. Lecture, one hour; laboratory, six hours.
- 6 FOODS (3) II, S Barkley and Taylor
Meal planning and service. The course includes the selection, purchase and preparation of food. Practice is given in different types of food service. Lecture and laboratory, nine hours. Prerequisite: H. E. 5.
- 11 FOOD AND NUTRITION (3) I, II Erikson
Properties and nutritive values of food. Application of principles of chemistry and physics to understanding of metabolic processes. Lecture, two hours; laboratory, three hours. Prerequisite: A & P 5.
- 12 INFANT AND CHILD NUTRITION (3) II Alternate Erikson
Nutrition for normal children. Effects of adequate and inadequate diets on growth and development. Work with parents to improve nutritional status of children. Laboratory work includes opportunity to plan, prepare and serve a limited number of noon meals to the Nursery School children. Lecture, two hours; laboratory, three hours.
- 101 PRINCIPLES OF NUTRITION (3) II, S Erikson
A non-technical course that treats of the essentials of adequate diet for optimum health, food plans to meet nutritional needs and environmental factors which affect nutrition. Lecture and discussion, Three hours. Not open to home economics majors.

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- 102 DIETETICS (3) I, II, S Wooldridge
Daily food requirements at different age levels, emphasis being given to satisfying the divergent needs of families and other groups. Practice is given in normal dietaries. Lecture, two hours; laboratory, three hours. Prerequisite: H. E. 6 and H. E. 11.
- 103a-b PUBLIC SCHOOL NUTRITION (3 ea.) I, II, S Wooldridge
Study of nutrition education movement with emphasis on causes and effects of malnutrition, methods of judging nutrition and height and weight standards. Development of health programs in public schools. Lecture, two hours; laboratory, two hours. Prerequisite or parallel: H. E. 102.
- 105a-c EXPERIMENTAL COOKERY (3) I, II, S Wooldridge
Study of factors that affect the results obtained in cooking and food preparation processes. Experimental work is carried out under controlled conditions and special emphasis is placed on physical, chemical and mechanical conditions. Lecture, one hour; laboratory, four hours. Prerequisite: Chem 37, H. E. 5 or approval of instructor.
- 106a-c FIELD WORK IN NUTRITION (1 ea.) I, II, S Wooldridge
Nutrition problems at different age levels with emphasis on the child in the public school, correlated with surveys and experimental studies to show the relation between diet selection and its physical and mental effects. Lecture and laboratory. Prerequisite: H. E. 103a or H. E. 103b, or approval of instructor.
- 107 WORKSHOP IN NUTRITION (4) Alternate S Erikson
This workshop gives opportunity to workers in the field of nutrition to obtain help in presenting community nutrition programs. The nutrition problem is analyzed in its relation to agricultural and socio-economic problems. The latest findings in technical information on nutrition are presented. Opportunity is given to collect visual aid material for teaching nutrition.
- 108a-c SEMINAR IN NUTRITION (1 ea.) I, II. Erikson
Investigations of recent research in nutrition. Two hours. Prerequisite: Senior or graduate standing.
- 111 ADVANCED NUTRITION (6) I, Alternate S Erikson
Application of biochemistry to understanding of characteristic properties of body cell structure and the utilization of nutrients for bodily processes. Laboratory work includes analysis of digestive juices, blood and urine; balance experiments. Lecture, three hours; laboratory, six hours. Prerequisite: H. E. 11.
- 112 NUTRITION IN DISEASE (4) I, Alternate S Erikson
Metabolic processes of the body in normal and diseased conditions, correlating the metabolic changes due to disease with diet therapy. Practice is given in planning, calculating and preparation of therapeutic diets. Lecture, two hours; laboratory, four hours. Prerequisite: H. E. 102; H. E. 111 or taken concurrently.
- 114 FOOD PRESERVATION (3) S Helton
The principles of preserving food by canning, drying, pickling, salting and quick freezing. Practice in the canning of fruits, vegetables and meats; the pickling of fruits and vegetables; the making of jams,

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jellies and preserves; brining, frying and freezing of fruits, vegetables and meats. Prerequisite: Bact. 52 and H. E. 5.

- 170a-c SPECIAL PROBLEMS IN FOODS AND NUTRITION
(2 ea.) I, II Erikson and Wooldridge
Intensive work on a specific phase of the field. Senior or graduate standing.
- 200a-c SEMINAR IN NUTRITION (3 ea.) I Erikson
- 206a-c ADVANCED FIELD WORK IN NUTRITION (1 ea.) I, II, S Wooldridge
The course is a continuation of H. E. 106a-d with investigations of recent research in the field. Lecture and laboratory. Prerequisite: H. E. 103, H. E. 106a, or approval of instructor.
- 270a-c SPECIAL PROBLEMS IN FOODS AND NUTRITION
(2 ea.) I, II Erikson and Wooldridge
Independent advanced work on a specific problem. Graduate standing.

Courses in Clothing, Textiles, Costume Design, Interior Decoration

- 20 CLOTHING (3) I, Alternate S
Principles of clothing selection and management. Techniques of garment construction. Laboratory, six hours. Open only to non-home economics students.
- 26 CLOTHING SELECTION AND COSTUME DESIGN (3) I, Alternate S Seeds
Selection of costume and management of the wardrobe. Study of clothing costs and values. Designing of costumes to meet the varied needs of the individual. Lecture, one hour; laboratory, four hours. Prerequisite: Art 30a, H. E. 25, or approval of instructor.
- 27 CLOTHING CONSTRUCTION (4) I, II, Alternate S
Fundamental principles of clothing construction applied to the making of garments. Use of commercial patterns; modification of patterns. Lecture, one hour; laboratory, six hours. Prerequisite: H. E. 25 and H. E. 26.
- 126 COSTUME DESIGN (3) I, Alternate S Seeds
The arts of costume today and throughout the past. Costumes are designed to meet today's needs. Lecture, one hour; laboratory, four hours. Prerequisite: H. E. 27, Art 30a, Art 30b.
- 127 ADVANCED CLOTHING (3) I, II, Alternate S Seeds and Sumner
A creative approach to costume problems is encouraged. Values in both individually made and ready-to-wear clothes are analyzed. Costumes are designed and constructed - giving as wide experience as possible with various techniques of pattern making, of construction and of fitting. Lecture, one hour; laboratory, four hours. Prerequisite: H. E. 27.
- 137 TAILORING (2) I, Alternate S
Analysis of tailoring technique in the shop and in the home. Tailored garments are planned and constructed. Laboratory, four hours. Prerequisite: H. E. 127.

- 138 ECONOMICS OF CLOTHING (2) II, Alternate S
The economic aspects of clothing are emphasized -- budgeting and buying clothes for the family, how the clothing industry operates, the influence of the consumer, the part the clothing trades play in the national and world economy. Lecture, one hour; laboratory, two hours. Prerequisite: H. E. 127 and H. E. 161.
- 187a-c SPECIAL PROBLEMS IN CLOTHING AND COSTUME DESIGN
(2 ea.) I, II, S Seeds and Summer
Intensive work on specific phases of the field. Senior or graduate standing.
- 287a-c SPECIAL PROBLEMS IN CLOTHING AND COSTUME DESIGN
(2 ea.) I, II, S Seeds and Summer
Independent advanced work on a specific problem. Graduate standing.
- 25 TEXTILES (2) I, II, Alternate S Summer
A study of fundamental weaves, yarns, fiber, and finishes, with reference to the proper selection and use of fabrics from both economic and artistic viewpoints. Lecture, one hour, laboratory, two hours.
- 125 ADVANCED TEXTILES (2) I, Alternate S Summer
Individual term problems. Lecture, one hour; laboratory, two hours
Prerequisite; H. E. 25 and H. E. 161.
- 135 DECORATIVE TEXTILES (2) II, Alternate S Summer
Survey of decorative textiles through the ages, with emphasis on the modern use of fabrics. Opportunity is given to use various technique in applying design to fabrics. Lecture, one hour; laboratory, two hours. Prerequisite: H. E. 25, Art 30a, Art 30b.
- 185a-c SPECIAL PROBLEMS IN TEXTILES (2 ea.) I, II, S Summer
Intensive work on specific phases of the field.. Senior or graduate standing.
- 285a-c SPECIAL PROBLEMS IN TEXTILES (2 ea.) I, II, S Summer
Independent advanced work on a specific problem. Graduate standing.
- 129 INTERIOR DECORATION (3) II, Alternate S Seeds
A study of color, line, and texture as they are used to create effective interiors suited to modern living. Lecture, one hour; laboratory, four hours. Prerequisite: H. E. 25, Art 30a, Art 30b, H. E. 61 or approval of instructor.
- 130 INTERIOR DECORATION PROJECTS (2) II, Alternate S Seeds
Selected projects in furnishing the home, including furniture refinishing, upholstering and slip cover making. Costs in terms of time and money are considered. Laboratory, Four hours. Prerequisite: H. E. 129.
- 139 ADVANCED INTERIOR DECORATION (2) II, Alternate S Seeds
The art of interior decoration throughout the past and today. A series of interiors are planned to meet today's needs. Lecture, one hour; laboratory, two hours. Prerequisite: H. E. 129.
- 189a-c SPECIAL PROBLEMS IN INTERIOR DECORATION (2 ea.) I, II, S Seeds
Intensive work on specific phases of the field. Senior or graduate standing

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- 237a-c SEMINAR IN TEXTILES, CLOTHING AND COSTUME DESIGN, INTERIOR DECORATION
(2 ea.) I, II Seeds and Summer
Investigation of special textile, clothing and costume design or
interior decoration. Lecture, two hours.
- 289a-c SPECIAL PROBLEMS IN INTERIOR DECORATION (2 ea.) I, II, S Seeds
Independent advanced work on a specific problem. Graduate standing.

Courses in Institution Management

- 41 INSTITUTION MARKETING (3) I, S Helton
The economics of food and supplies for institutions. Factors that
influence selection and purchase by the institution manager. Field
trips are made to wholesale houses, distribution centers and food
production plants. Movies of food production, packaging and distri-
bution are used extensively. Lecture, three hours; laboratory, two
hours. Prerequisite: Econ. 1.
- 42 INSTITUTION FOODS (4) I, II Helton
Large quantity food preparation and service. Experience in using
modern equipment in preparation of large quantities of food. Intro-
duction to food cost accounting, job analysis and time studies.
Lecture, two hours; laboratory, four hours. Prerequisite: H. E. 5.
- 140 THE SCHOOL LUNCH (3) I, S Helton
Designed for those teachers who manage the lunch room in connection
with teaching. The importance of the lunchroom to the school health
program, the opportunities of the lunchroom as a teaching unit and as
a community co-operative project. Duties of the manager in formulat-
ing employment policies and personnel management. Consideration will
be given to the selection, arrangement, maintenance and care of equip-
ment; the planning of menus, the purchase, storage, preparation and
serving of food; the records necessary for financial control. A
study of the Federal School Lunch Program and ways in which a State
may participate will be emphasized. Lecture, two hours; laboratory,
two hours. Prerequisite: H. E. 5; Econ. 1.
- 141 INSTITUTION ORGANIZATION AND MANAGEMENT (3) II Helton
Principles of institution organization, types of institution service,
personnel and financial management. Methods of accounting used in
institutions. Legal aspects of institution management. Personal and
professional qualifications of an institution manager. Prerequisite:
H. E. 41; H. E. 42.
- 142a-c INSTITUTION ADMINISTRATION (2 ea.) I, II, S Helton
Application of scientific principles of institution management.
Practice is given in office management in different food units on the
campus. Lecture, one hour; laboratory, four hours (each unit a-c).
Prerequisite: H. E. 141.
- 143 INSTITUTION EQUIPMENT (3) II Helton
Selection, arrangement, cost and care of institution equipment.
Problems of lighting, heating, ventilation and refrigeration. Two

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all day field trips taken to neighboring cities to equipment houses and installations. Lecture, three hours; laboratory, two hours. Prerequisite: H. E. 42.

- 175a-c SPECIAL PROBLEMS IN INSTITUTION MANAGEMENT (2 ea.) I, II Helton
Intensive work on specific problems. Senior or graduate standing.
- 275a-c SPECIAL PROBLEMS IN INSTITUTION MANAGEMENT (2 ea.) I, II Helton
Independent, advanced work. Graduate standing.

Courses in Child Development

- 51 HEALTH OF THE FAMILY (3) I, II Erikson
Study of the factors that influence health, the agencies and forces to be utilized for health improvement, applications of modern science to health and prevention of diseases, techniques of home nursing. Lecture, three hours.
- 52 INTRODUCTION TO CHILD DEVELOPMENT (3) I, II Bentley
Study of what to expect of children of various ages in the preschool years; characteristics of physical growth, factors that affect mental development, emotional stability, and learning to get along with others. Emphasis is placed on increased understanding of adult personality through study and observation of young children.
- 150 TECHNIQUES OF GUIDANCE FOR THE PRESCHOOL CHILD (4) I, II Mumford
An opportunity for advanced work in child development. Extensive laboratory assistance in the nursery school is required with emphasis on specific guidance techniques to foster the child's growth in independence and general physical and social development. Lecture, two hours; nursery school laboratory, four hours. Prerequisite: H. E. 152.
- 152 CHILD CARE AND DEVELOPMENT (3) I, II Bentley
Opportunity for gaining better understanding of young children through study of the normal development, care and guidance of the preschool child - two to five years of age. Laboratory work consists of observation and participation in nursery school. Attendance at parent meetings is required. Lecture, two hours; nursery school laboratory, four hours. Prerequisite: A & P 5; Psych. 7: H. E. 52.
- 154 FAMILY LIVING (3) II, S Mumford
The relationships of community and family living. Emphasis is given to the influence of home conditions on the members of the family and preparation for marriage and parenthood. Lecture, three hours and occasional field trips in the local community.
- 155 THE CHILD AND HIS CLOTHING (3) Alternate S Mumford
A study of the appreciation of the needs in children's clothing, the physiological and psychological functions, as well as the selection, cost and care of children's clothing. Lectures and laboratory.
- 156 PLAY AND PLAY MATERIALS (2) Alternate S Bentley
Typical play activities of young children and characteristics of good play materials. Emphasis is given to the relationship of play equipment to the development of preschool children. Criteria for selection

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and construction of toys, including survey of inexpensive materials for home-made toys. Toys suitable for the child of preschool age are constructed in laboratory. Lectures and laboratory.

- 157 INFANT DEVELOPMENT (2) S Mumford
Study of the development of the child in the pre-natal and infant periods. Consideration is given to the pre-natal factors that affect the child's development, such as heredity, the anatomy and physiology of reproduction, pre-natal nutrition of both the mother and the fetus.. The neo-natal period includes study of sleep, emotion, motor activities, vocalization of the infant and infant feeding. Field trips are required. Lecture, two hours. Prerequisite: A. & P. 5.
- 190a-c SPECIAL PROBLEMS IN CHILD DEVELOPMENT AND FAMILY LIVING
(2 ea.) I, II Mumford and Bentley
Intensive work on specific problems. Senior or graduate standing.
- 290a-c SPECIAL PROBLEMS IN CHILD DEVELOPMENT AND FAMILY LIVING
(2 ea.) I, II Mumford and Bentley
Independent advanced work. Graduate standing.

Courses in Home Management

- 61 HOUSING (3) I, Alternate S Wilmore
The first part of the course deals with the social and economic problems of housing American families. The second half deals with the problems of house buying and house planning from the standpoint of the consumer. Lecture, three hours. Prerequisite: Econ. 1.
- 161 CONSUMER PROBLEMS (3) II, Alternate S Wilmore
A study of consumer buying and its social and economic aspects. An analysis of the common problems of the manufacturer, the merchant and the consumer in order to understand better the needs and responsibilities of each group. Lecture, three hours. Prerequisite: Econ. 1; H. E. 61.
- 162a HOME MANAGEMENT AND FAMILY RELATIONSHIPS (2) I, II, S Wilmore
The philosophy and principles of home management. A study of the management of resources available to the family for optimal development. Includes study of the mechanics of time, energy and money management. Emphasis is placed on personal development, social and family relationships. Lecture, two hours. Prerequisite: Econ. 1; H. E. 61.
- 162b HOME MANAGEMENT AND FAMILY RELATIONSHIPS (3) I, II, S Wilmore
A residence period in the University Home Management House is required of all seniors in home economics. The course consists of laboratory work affording experience in the application of principles presented in other courses. Prerequisite: H. E. 162a; prerequisite or parallel; H. E. 102.
- 195a-c SPECIAL PROBLEMS IN HOME MANAGEMENT (2 ea.) I, II Wilmore
Intensive work on specific phases of home management. Senior or graduate standing.

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- 262 ADVANCED HOME MANAGEMENT AND FAMILY RELATIONSHIPS (3) II Wilmore
A course affording opportunity for special study of social and economic problems affecting family life. Lecture, three hours. Prerequisite: H. E. 162b, graduate standing.
- 295a-c SPECIAL PROBLEMS IN HOME MANAGEMENT (2 ea.) I, II Wilmore
Independent advanced work. Graduate standing.

General Courses

- 73 FARM HOME PROBLEMS (4) II Agric. Staff
A course in agriculture for home demonstration agents, teachers in rural schools, and others engaged in rural work. Lecture, 3 hours; laboratory, two hours.
- 74 HOME ECONOMICS FOR MEN (2) I H. E. Staff
Study in selected areas of home economics dealing with values in personal and family living. Lecture, two hours.
- 160 RURAL COMMUNITY ANALYSIS (3) I, II Kaufman
The nature of the town-country community and a study of programs for its development and the correlation of activities. Residence in a rural community during a part of the semester affords for those students for which it is possible laboratory experience in the application of principles developed during the period of residence in the college. Prerequisite: An introductory course and consent of instructor.

HORTICULTURE

Albert Jackson Olney, Norris Raymond Elliott,
Emery Myers Emmert, Clair Smith Waltman,
O. Malcolm Davenport

1. General Horticulture. (3) I, II Olney
A study of the principles and practices basic to the production of fruit, flowers, and vegetable crops. Lectures, 3 hours.
2. Principles of Spray Practice. (2) I Waltman
A study of the principles and practice of spraying for the control of pests of horticultural crops. Lecture, 1 hour., laboratory, 2 hours. Prerequisites: Hort. 1, Chem. 4a, Ag. Ent. 1.
20. Elementary Landscape. (2) II Elliott
The elementary principles of landscape as applied to the planting of urban home grounds and farmsteads. Lectures, 2 hours. Offered 1949 and on alternate years, thereafter.
22. Elementary Floriculture. (2) II Elliott
The elementary principles of growing flowers and decorative plants, as house plants, and outdoor culture. Lectures, 2 hours. Offered 1950 and on alternate years, thereafter.
103. Pomology: Pome Fruits (3) I Waltman
A course dealing with the theory and practice of commercial pome fruit

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production, with major emphasis on apple growing. Lectures, 2 hours.
Prerequisite: Hort. 1.

104. Pomology: Stone Fruits. (3) I Waltman
A detailed study of commercial peach, plum and cherry growing, with special emphasis on peach production. Lectures, 2 hours; laboratory, 2 hours. Prerequisite: Hort. 1.
105. Pomology: Small Fruits. (3) I Waltman
A detailed study of the care and management of commercial plantings of strawberries, raspberries, and other bush fruits. Lectures, 2 hours; laboratory, 2 hours, first half; lectures, 3 hours a week, last half. Prerequisite: Hort. 1.
- 106a-c Special Problems in Pomology. (3) I, II, S. Waltman
This course is designed to meet the need for advanced work. Prerequisites: Hort. 1, 103, 104, 105, and approval of instructor.
110. The Principles of Vegetable Gardening. (3) I Emmert
A study of the fundamental principles underlying commercial production of vegetables. Lectures, 2 hours; laboratory, 2 hours. Prerequisites: Hort. 1 and Agronomy 10.
111. Growing Vegetable Plants Under Glass. (3) I Emmert
Production of vegetable plants grown for transplanting; types of hotbeds, cold frames, and simple greenhouse structures. Lectures, 2 hours; laboratory, 2 hours. Prerequisite: Hort. 110
- 112a-c Special Problems in Vegetable Crops. (3) I, II, S. Emmert
This course is designed to meet the need for advanced work. Prerequisites: Hort. 1, 110, and approval of instructor.
120. Landscape Gardening. (4) II, S. Elliott
The adaptation of principles of landscape architecture; including the coordination of buildings with surroundings; identification and uses of decorative materials and their requirements. Lectures, 3 hours; laboratory, 2 hours. Offered 1949 and on alternating years, thereafter, and every summer.
121. Advanced Landscape. (3) II Elliott
A continuation of Horticulture 120, with special emphasis on design and use of materials. Lectures, 2 hours; laboratory 2 hours. Prerequisite: Hort. 120. Offered 1950 and on alternate years, thereafter.
122. Floriculture. (2) II Elliott
A detailed study of specific groups of flowers such as bulbs, iris, and roses. Lectures, 2 hours. Offered 1949 and on alternate years, thereafter.
123. Plant Propagation. (3) II Elliott
A detailed study of the methods of propagating certain horticultural plants. Includes cuttings, grafting, and budding. Lectures, 2 hours; laboratory, 2 hours. Prerequisites: Hort. 1; Bot. 1a, 1b. Offered 1950 and on alternate years, thereafter.

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- 124a-c Special problems in Ornamental Horticulture. (3) I, II, S Elliott
This course is designed to meet the need for advanced work. Approval by the instructor required. Prerequisites; Hort. 1, 120, 121; Bot. 1a, 1b.
125. Plants and Planting Materials. (2) II Elliott
A study of woody and herbaceous plants, their identification, suitability for landscape uses and the effects produced. Lecture, 1 hour; laboratory, 2 hours. Prerequisite: Hort. 120. Offered 1949 and on alternate years, thereafter.
- 200a-c Seminar. (1) I, II, S. Olney and Staff
- 201a-c Research in Horticulture, (3) I, II, S. Olney and Staff
Prerequisite: Approval of instructors.
- For. 1. Elements of Forestry. (3) I Davenport
A brief coverage of the general fields of Forestry; development and importance; tree growth; principal forest regions and important timber species; forest management practices, utilization and products; State and federal forestry programs. Lectures, 3 hours.
- For. 2. Farm Forestry. (3) II Davenport
The general principles of forestry as applied to the farm woodland. Characteristics of the important trees of Kentucky. Tree structure and physiology. Reproduction, management and protection of the farm woodland. Measuring and utilization of woodland products. Lectures, 2 hours; laboratory, 2 hours.
- For 110. Wood Identification and Technology. (3) I Davenport
General anatomy of wood, identification of commercial species of the United States based on gross and microscopic features. Properties and uses. Lectures, 2 hours; laboratory, 2 hours. Prerequisites: For. 1; Bot. 124.
- For. 111. Lumber and other Forest Products. (3) II Davenport
Manufacture, grading, and seasoning of lumber. Forest products other than logs or lumber, their methods of utilization and markets. Lectures, 3 hours. Prerequisite: For. 110.
- 120a-c. Special Problems in Forestry. (3) I, II, S Davenport
This course is designed to meet the need for advanced work. Prerequisites: For. 110 and 111, and approval of instructor.

MARKETS AND RURAL FINANCE

Aubrey J. Brown, Dana George Card, Carl McKinley Clark,
Frank LeRond McVey, Hugh Bruce Price, John Bissell
Roberts and Leon A. Vennes

- 30 SOURCES AND USES OF AGRICULTURAL DATA. (2) I Card
Methods of collecting, tabulating, and presenting agricultural information; the use of tables, graphs, frequency distributions, averages and ratios; principal sources of production and market information; the interpretation of agricultural census, crop and livestock estimate, and market news reports. Lecture, 1 hour; laboratory, 2 hours.

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- 100 AGRICULTURAL MARKETING. (3) I, II, S Brown, Clark, Vennes
Principles and methods of marketing farm products, methods of market-
ing at country and central markets; classes and functions of middle-
men; marketing specific commodities; market prices; marketing costs;
and cooperative marketing. Lecture and recitation, 3 hours. Pre-
requisite: Economics 1.
- 101 COOPERATIVE MARKETING. (3) II Vennes
Principles, methods, and problems involved in the cooperative market-
ing of farm products, and the purchase of farm production supplies;
legal organization and management problems which cooperatives encounter.
Lecture and recitation, 3 hours; Prerequisite: Markets and Rural
Finance 100.
- 102 MARKETING TOBACCO AND OTHER FARM CROPS. (2) S Clark
Principles, methods and problems in marketing farm crops, with spec-
ial emphasis on marketing tobacco, including systems of marketing,
organization of markets, functional problems of warehousing, effi-
ciency in pricing, monopoly aspects of competition and international
movement of grains and tobacco. Lecture and recitation, 2 hours;
Prerequisite: Markets and Rural Finance 100.
- 103 MARKETING LIVESTOCK AND LIVESTOCK PRODUCTS. (2) II Vennes
Analysis of livestock and dairy markets, market organization, market
agencies, market institutions, market services and public regulation.
Lecture and recitation, 2 hours. Prerequisite: Markets and Rural
Finance 100.
- 110 AGRICULTURAL PRICES. (3) II, S Card and Vennes
Price behavior among agricultural products. Seasonal, cyclical and
longtime trends; supply-price relationships; price movements during
inflation and deflation; relation of agriculture to the general price
level and factors affecting commodity prices. Lecture and recitation,
3 hours; Prerequisite: Farm Economics 1.
- 120 AGRICULTURAL FINANCE. (2) S Clark
Credit needs of agriculture, including short-time, intermediate, and
farm mortgage credit requirements; problems of financing farm owner-
ship and production and marketing of farm products; organization and
operation of various types of credit agencies including the Farm
Credit Administration. Lecture and recitation, 2 hours. Prerequisite:
Farm Economics 1.
- 130 AGRICULTURAL STATISTICS. (3) I Card
Principles and methods involved in the analysis, interpretation, and
use of agricultural statistics; the measurement of relationships by
tabular analysis, gross correlation and graphic correlation; sampling,
standard errors, and simple analysis of variance, as used in agricul-
tural research. Lecture and recitation, 3 hours.
- 140 AGRICULTURAL POLICY. (3) II Price
Development of principles underlying agricultural policy, including
analysis of the place of agriculture in the national economy, ob-
jectives of agricultural policy, recent developments in agriculture,

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appraisal of current and proposed agricultural programs, and legislation for remedial action. Lecture and recitation 3 hours. Prerequisite: Markets and Rural Finance 100.

- 142 MARKETING AND PROCESSING POULTRY. (2) I Roberts and Wightman
 Organization and functioning of markets for poultry and eggs, methods of selling, prices and price making forces are combined with laboratory instruction in grading, packaging and handling poultry and eggs according to recognized commercial standards. Lecture, 1 hour; laboratory 2 hours. Prerequisite: Animal Industry 41 and Markets and Rural Finance 100. This is same course as Animal Industry 142.
- 200a-c AGRICULTURAL ECONOMICS SEMINAR. (1) I, II Brown and Staff
 Analysis of current problems in the field of marketing and rural finance.
- 202a-c SPECIAL PROBLEMS IN MARKETING AND RURAL FINANCE. (3) I, II, S Brown and Staff
 Open to graduate students who have the necessary training and ability to do research on individual problems. The course consists of individual work on some selected problem related to agricultural marketing or agricultural finance. Prerequisite: Approval of head of department.
- 204 RESEARCH IN MARKETING. (3) II Price
 A critical examination of methods, objectives and results of various types of research in marketing organization, marketing functions and market management. Lecture, 3 hours. Prerequisite: Markets and Rural Finance 100.
- 210 THEORY OF AGRICULTURAL PRICES. (3) II Brown
 The application of economic theory to the field of agricultural prices. Variability and flexibility in the price structure in terms of price behavior. Attention will be given to the economic aspects of certain of the price plans in agriculture. Lecture, 3 hours. Prerequisite: Markets and Rural Finance 110 or approval of instructor.
- 230a STATISTICS FOR AGRICULTURAL RESEARCH: SOCIAL SCIENCES. (3) I Card
 Multiple, partial, and joint correlation in agricultural research; measures of seasonal variation; agricultural index numbers; theory and practice of sampling methods; and tests of significance. Lecture, 3 hours. Prerequisite: Markets and Rural Finance 130.
- 230b STATISTICS FOR AGRICULTURAL RESEARCH: PLANT AND ANIMAL SCIENCES. (2) I Card
 Analysis of variance and covariance; statistical considerations in the design of experiments; tests of significance and confidence limits. Lecture and lab., 3 hours. Prerequisite: Markets and Rural Finance 130.
- 240 EFFECTS OF POLITICAL, ECONOMIC AND CULTURAL FORCES ON RURAL LIFE IN AMERICA. (2) I McVey
 A course for graduate students in the heritages and political and economic forces that have affected the life and the property of the people engaged in agriculture. The period covered is from colonial times to the present. Lectures, readings and assigned topics, two hours a week.

The recommendations of the College of Agriculture and Home Economics were approved by the Faculty.

Dean Terrell presented for the College of Engineering the following corrections in the proposals which had been approved by the Faculty at the November meeting:

Courses to be dropped in changing from Quarter to Semester System:

Civ. Eng. 122, Water Power Engineering, 3 cr.
Elec. Eng. 110c, Electrical Laboratory, 1 cr.
Elec. Eng. 151c, Seminar, 1 cr.
Eng. Draw. 1c, Elementary Engineering Drawing, 2 cr.

Change in Credit:

Mech. Eng. 129, Elements of Heat Transfer, from a 2 semester credit course to a 4 semester credit course.

The University Faculty approved the changes requested by the College of Engineering.

President Donovan congratulated the deans and department heads upon the efficient way in which they had prepared the revisions in courses and curricula necessary in making the change from the quarter to the semester system.

D. V. Hegeman, Chairman of the Rules Committee, made a report of the action of the committee on a suggestion that the rule covering cheating in University work be revised. The report, which was approved by the Faculty, is as follows:

The Committee recommends to the University Faculty: That the present rule entitled "Penalty on Cheating" remain unchanged in view of the fact that an organized effort is being made by certain student leaders to effect a solution of the entire problem of cheating.

Dean Seay read to the Faculty a request from the Veterans Club that the penalty for absences before or after a holiday be abolished. This request was referred to the Rules Committee for recommendation at the next meeting of the Faculty.

President Donovan expressed satisfaction with the attendance at Faculty meetings, and with the way in which the members are handling the many problems that are coming up for consideration.

The Faculty adjourned.

Maurice F. Seay
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Secretary