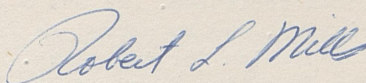


The University Faculty approved the recommendations of the Rules Committee.

Dean Ginger announced that the United Community Services drive at the University had been successful and that at that time all but about \$50 of the University's quota had been subscribed.

The Faculty adjourned.



Robert L. Mills
Secretary

Minutes of the University Faculty, December 12, 1955

The University Faculty met in the Assembly Room of Lafferty Hall at 4:00 p.m., Monday, December 12, 1955. President Donovan presided. Members absent were Staley F. Adams, A. D. Albright*, Frank G. Dickey*, C. Howard Eckel*, W. P. Garrigus, Carsie Hammonds*, W. A. Heinz*, E. J. Humeston, A. D. Kirwan, R. D. McIntyre, L. L. Martin, Helen Reed, Dwight M. Seath*, Earl P. Slone, William G. Survant, W. A. Sutton, Jr.*, and Frank J. Welch.

The minutes of November 14 were read and approved.

Dr. Chamberlain read the resolutions on the death of Lysle W. Croft. The University Faculty approved having the Resolutions included in the minutes of the Faculty and asked that a copy be sent to Mrs. Croft.

LYSLE WARRICK CROFT

Dr. Lysle Warrick Croft, Director of the University Personnel Office and Associate Professor of Psychology, died on December 1, 1955 after an illness of several weeks.

Dr. Croft was an alumnus of the University of Kentucky. He graduated from the College of Commerce in 1926 and in 1932 was awarded the degree of Master of Arts with a major in psychology. He continued his studies in psychology and in 1938 received the degree of Doctor of Philosophy.

From 1936, when he was first employed as a student counselor, until the time of his death Dr. Croft served the University in a number of capacities---teacher of psychology, Assistant Dean of Men, Assistant Dean of the College of Arts and Sciences, and Director of the University Personnel Office. The latter office came into being as a result of his initiative. In recent years it has rendered many

*Absence explained

and important services to the students, the faculty, and the administration of the University due primarily to Dr. Croft's skillful planning, his leadership, and his peculiar genius in matters of guidance and counseling.

Dr. Croft has contributed significantly to the work of a number of professional societies. He was a Fellow of the American Psychological Association, and he served as President of the Southern College Personnel Association for two years. From 1949 to 1951 he was a member of the Executive Board of the American College Personnel Association.

For a period of five and one-half years Dr. Croft served his country as an officer in the United States Army. He was discharged with the rank of Colonel in 1946.

Few men have served the University of Kentucky more faithfully or with greater loyalty than has Lysle Croft. He was devoted to his work and to this institution. His enthusiasm, his unflagging energy even in declining health, and his cheerfulness and optimism won him a host of friends and admirers. He will be sorely missed here on the campus that he loved so much.

It is therefore resolved that this testimony to his life and to his service to his country and his University be made a part of the minutes of the meeting of the University Faculty of December 12, 1955, and that a copy be sent to his wife.

Frank G. Dickey
D. V. Terrell
Leo M. Chamberlain

Dean Terrell presented for the College of Engineering a list of courses to be dropped, changes in courses and new courses; also outlines of revised curricula. The recommendations from the College of Engineering were approved.

At its meeting on November 21, 1955, the Faculty of the College of Engineering made the following recommendations to the University Faculty to be effective the First Semester, 1956-57:

COURSES TO BE DROPPED

<u>Civil Engineering 114</u>	ADVANCED SURVEYING, 3 credits
<u>Civil Engineering 174</u>	GRAPHIC SOLUTIONS, 2 credits
<u>Electrical Engineering 18</u>	GRAPHICAL REPRESENTATIONS, 2 credits
<u>Electrical Engineering 102</u>	ELECTRICAL MACHINERY, 2 credits
<u>Mechanical Engineering 122b</u>	SEMINAR, 1 credit
<u>Metallurgical Engr 29</u>	METALLURGY OF THE FERROUS METALS, 3 credits

Metallurgical Engr 128 METALLURGY OF THE NON-FERROUS METALS, 3 credits
 NOTE: The two immediately preceding courses will be combined in a new course, Met Engr 33 - Extractive Metallurgy, 5 credits

Metallurgical Engr 121 FUEL AND METALLURGICAL LABORATORY, 2 credits

Metallurgical Engr 167 MINERALS BENEFICIATION LABORATORY, 1 credit

Mining Engineering 131 MINE SURVEYING PRACTICE, 1 credit

Mining Engineering 134 MINING METHODS, 2 credits

Mining Engineering 135 COAL MINING, 2 credits

NOTE: The two immediately preceding courses will be combined in a new course, Min Engr 145-Mining Methods, 3 credits

Mining Engineering 138 MINE PLANT DESIGN, 2 credits. (to be incorporated into Min Engr 137 - Mine Plant and Machinery.)

NEW COURSES

Civil Engineering la,b-THE ENGINEERING PROFESSION (Freshman) (0) each I, II

Electrical Engineering la,b-THE ENGINEERING PROFESSION (Freshman) (0) each, I, II

Mechanical Engineering la,b-THE ENGINEERING PROFESSION (Freshman) (0) each I, II

Metallurgical Engineering la,b-THE ENGINEERING PROFESSION (Freshman) (0) each, I, II

Mining Engineering la,b-THE ENGINEERING PROFESSION (Freshman) (0) each, I, II

Each of the above courses is described as follows:

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

Civil Engineering 175-TIMBER STRUCTURES. (2) I, II Leggett
 Theory and design of structural timber beams, columns, trusses as related to buildings and bridges. Recitation, one hour; drawing room, three hours. Prereq: C. E. 171a.

Metallurgical Engineering 33-EXTRACTIVE METALLURGY (5) I Crouse
 The principles and processes employed in the production, treatment and preparation of the various economic metals, both ferrous and non-ferrous, including a consideration of their strategic and economic importance. Prereq: Met E 27.

Metallurgical Engineering 180-THE CASTING OF METALS. (3) I, II Swift, Crouse
 Ferrous and non-ferrous foundry Practice. Theory and metallurgy of metal castings. Application of engineering principles to the design and production of castings. Lecture and recitation, three hours. Prereq: Met E 26 or 27 or 37.

Mining Engineering 145-MINING METHODS. (3) I Swift and Spokes
Surface and underground mining of coal, metallic ores, and non-metallic minerals. Economic, engineering and operating factors. Lecture and recitation, three hours. Prereq: Min E 126.

COURSES INVOLVED IN REDUCTION OF CREDIT AND CHANGE IN CATALOG DESCRIPTION

Civil Engineering 12-PLANE SURVEYING--3 credits to 2 credits. Described as follows:

Civil Engineering 12-PLANE SURVEYING. (2) I, II Blythe
Principles, field practice and calculations. General use and care of surveying instruments. Class work, one hour; field work, three hours. Prereq: Math 18.

Civil Engineering 16a-ROUTE SURVEYING--3 credits to 2 credits. Described as follows:

Civil Engineering 16a-ROUTE SURVEYING. (2) I, II Shaver
Curves, line, grade, earthwork and theory of location as it applies to railroads, highways and pipe lines. Lecture and recitation, two hours. Prereq: C. E. 12.

Civil Engineering 110a-REINFORCED CONCRETE--4 credits to 3 credits. Described as follows:

Civil Engineering 110a-REINFORCED CONCRETE. (3) I, II Leggett
Theory and design of beams, slabs, girders, and columns as related to building frames, retaining walls and bridges. Lecture and recitation, three hours. Prereq: C. E. 171a.

Reduction of Credit and Change in Catalog Description (Cont.)

Civil Engineering 110b-REINFORCED CONCRETE--3 credits to 2 credits. Described as follows:

Civil Engineering 110b-REINFORCED CONCRETE. (2) I, II Mory
Continuation of C.E. 110a, with special emphasis on complete structures. Lecture, one hour; drawing room, three hours. Prereq: C.E. 110a.

Electrical Engineering 105a-ELECTRICAL ENGINEERING CIRCUITS AND MACHINERY. 4 credits to 3 credits. Described as follows:

Electrical Engineering 105a-ELECTRICAL ENGINEERING CIRCUITS AND MACHINERY. (3) I Back. (For Mechanical engineers) Study of electrical circuits and machinery and their control as found in modernly equipped installations. Three class hours. Prereq: Phys 3b and Math 20b.

Electrical Engineering 105b-ELECTRICAL ENGINEERING CIRCUITS AND MACHINERY. 4 credits to 3 credits. Described as follows:

Electrical Engineering 105b-ELECTRICAL ENGINEERING CIRCUITS AND MACHINERY. (3) II Back. (For Mechanical engineers) Continuation of E. E. 105a. Three class hours.

Mechanical Engineering 129-ELEMENTS OF HEAT TRANSFER. Reduce from 4 credit hours to 3 credit hours. (No change in course write-up.)

Metallurgical Engineering 60-METALLURGICAL LABORATORY AND SHOP PRACTICE. Reduce credit from 6 credits to 3 credits. Described as follows:

Metallurgical Engineering 60-METALLURGICAL LABORATORY AND SHOP PRACTICE.
(3) II Duncan and Staff. Metallurgical and Foundry problems. Lecture and recitation, one hour; laboratory six hours. Prereq: Five semesters in Metallurgical Engineering or its equivalent.

Metallurgical Engineering 37-ADAPTIVE METALLURGY FOR ENGINEERS. Reduce credit from 4 credits to 3 credits. No change in course write-up.

Metallurgical Engineering 132-METALLURGICAL CALCULATIONS. Reduce credit from 5 credits to 3 credits. Described as follows:

Metallurgical Engineering 132-METALLURGICAL CALCULATIONS. (3) I Crouse Calculations involved in the application of metallurgical principles. Recitations and problems, three hours. Prereq: Chem 22 and Met E. 33.

Applied Mechanics 107--MECHANICAL VIBRATIONS. Reduce from 4 credits to 3 credits.

CHANGE OF COURSE DESCRIPTION

Change description of Mining Engineering 137, MINE PLANT AND MACHINERY, to read as follows:

Theory and practice of mine haulage, hoisting, drainage, pumping, and compressed air as power. Application of engineering principles to the mineral industries. Prereq: Min E 126 and senior classification.

Change description of Civil Engineering 15, GENERAL SURVEYING, to read as follows:

Given at the Summer Camp, Noble, Kentucky. Theory, field and office practice in Plane and Geodetic surveying including the study and use of aerial photographs. Prereq: Approval of the Head of the Department.

Change description of Civil Engineering 16b, ROUTE SURVEYING, to read as follows:

Given at the Summer Camp, Noble, Kentucky. Theory, field and office practice in route-surveys including the application of aerial photographs in this work. Prereq: Approval of the Head of the Department.

Change description of Civil Engineering 17, HYDROGRAPHIC SURVEYING, to read as follows:

Given at the Summer Camp, Noble, Kentucky. Theory, field and office practice in hydrographic surveys. Prereq: Approval of the Head of the Department.

Change description of Civil Engineering 171a, THEORY OF STRUCTURES, to read as follows:

Analytical and graphical analysis of stresses in simple and indeterminate structures, including beams, girders, trusses, towers and building frames. Lecture and recitation, three hours. Prereq. or concur: A. M. 100.

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CHANGE OF COURSE TITLE AND DESCRIPTION

Change Mining Engineering 130, MINE ADMINISTRATION, to read as follows:

Mining Engineering 130-MINERAL INDUSTRIES ADMINISTRATION. (3) I Spokes and Swift

The engineering aspects of mineral industries administration and management, including safety engineering. Lecture and recitation, three hours.

Prereq: Junior classification.

EXPANSION OF CREDITS

Please expand the number of credits for the following courses:

Mechanical Engineering 114b-AIR CONDITIONING, HEATING AND VENTILATING DESIGN.

Expand from 3 credits to 4 credits.

Mechanical Engineering 137-MOTION AND TIME STUDY. Expand from 3 credits to 4 credits.

Mechanical Engineering 107-FLUID MECHANICS. Expand from 3 credits to 4 credits.

Mining Engineering 136-MINE VENTILATION. Expand from 2 credits to 3 credits.

Mining Engineering 139-VALUATION OF MINERAL PROPERTIES. Expand from 2 credits to 3 credits.

CHANGE OF COURSE NUMBER

Change Civil Engineering 1, CIVIL ENGINEERING PROBLEMS, to Civil Engineering 5, CIVIL ENGINEERING PROBLEMS. (Change in course number only.)

CHANGE IN COURSE NUMBER, TITLE, AND DESCRIPTION

Change Mechanical Engineering 1, MECHANICAL ENGINEERING PROBLEMS to Mechanical Engineering 5, SLIDE RULE.

Mechanical Engineering 5-SLIDE RULE (1) I, II walton
Theory and application of the slide rule. One recitation per week.
Prereq: Math 18.

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Admission. On entering the College of Engineering, each student must select the curricula in which he expects to do his major work and register in the appropriate department. In addition to meeting the general requirements for admission to the University, the applicant for admission to the freshman class of the College of Engineering shall include in high school credits one unit of plane geometry and one and one-half units of algebra. It is recommended that the student offer one-half unit in solid geometry, otherwise this subject will be added to the requirements of the freshman year.

Students who have had sufficient mathematics in high school and who score high on the classification test may, by special examination, be excused from College Algebra and Trigonometry and begin their college mathematics with Plane Analytic Geometry.

Students whose scores on the University classification tests are in the lower one-fourth, or those lacking in the requirements for mathematics, may enter the College of Engineering. The schedules of such students will be adjusted in accordance with their placement tests as directed by a special orientation committee of the College of Engineering and the Personnel Office.

Options and Electives. In some of the curricula certain options or electives are allowed. All electives must be approved by the Head of the Department in which the student is taking his major work. In general the non-technical electives shall be selected from the following fields: -- history, economics, government, literature, sociology, philosophy, psychology, and fine arts.

Requirements for Graduation. To receive the Bachelor of Science degree in any one of the five branches of engineering a student must meet the following requirements:

(a) Complete a minimum of 130 semester hours with a standing of 2.0, exclusive of the basic work in Military Science and Physical Education.

(b) Complete the curriculum of the department in which he is taking his major work.

Curricula Leading to the Degree of Bachelor of Science in
Civil Engineering

FRESHMAN YEAR			
FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
C. E 1a--The Engineering Profession	0	C E 1b--The Engineering Profession	0
Eng 1a--English Composition	3	C E 5--Civil Engineering Problems	1
Math 17--College Algebra	3	Eng 1b--English Composition	3
Math 18--Plane Trigonometry	3	Math 19--Plane Analytic Geometry	3
Chem 2a--Gen Chem for Engineers	4	Chem 2b--Gen Chem for Engineers	4

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E D 1a--Elem Engineering Drawing	2	E D 1b--Descriptive Geometry	2
Military or Air Science	2	C E 12--Plane Surveying	2
Physical Education	1	Military or Air Science	2
		Physical Education	<u>1</u>
	<u>18</u>		<u>18</u>

OPTION ONE

General Civil Engineering

SOPHOMORE YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
C E 2a--The Engineering Profession	0	C E 2b--The Engineering Profession	0
Math 20a--Differential Calculus	4	Math 20b--Integral Calculus	4
Phys 3a--General College Physics	3	Phys 3b--General College Physics	3
Phys 4a--Physics Laboratory	2	Phys 4b--Physics Laboratory	2
C E 16a--Route Surveying	2	A M 3--Statics	3
C E 18--Mapping & Topo Drawing	2	Military or Air Science	2
Military or Air Science	2	*Non-technical Elective	4
*Non-technical Elective	<u>3</u>		
	<u>18</u>		<u>18</u>

JUNIOR YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
C E 3a--The Engineering Profession	0	C E 3b--The Engineering Profession	0
A M 100--Strength of Materials	4	A M 4--Dynamics	2
C E 81--Testing of Materials	1	Geol 12b--Elem Geology for Engrs	3
E E 101--Fund of Elec Machinery	3	M E 134--Elem of Engr Thermodynamics	3
Geol 12a--Elem Geol for Engineers	3	C E 107--Soil Mechanics	3
C E 171a--Theory of Structures	3	C E 171b--Theory of Structures	3
*Non-technical Elective	3	C E 173a--Steel Structures	3
		*Non-technical Elective	<u>2</u>
	<u>17</u>		<u>19</u>

SUMMER TERM

Surveying Camp - 6 Weeks	Crs
C E 15--General Surveying	3
C E 16B--Route Surveying	3
C E 17--Hydrographic Surveying	<u>1</u>
	<u>7</u>

SENIOR YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
C E 4a--The Engineering Profession	0	C E 4b--The Engineering Profession	0
A E 7a--Building Construction	3	E A 102--Engineering Administration	3
C E 110a--Reinforced Concrete	3	C E 23--Seminar	1
C E 120--Hydraulics	2	C E 110b--Reinforced Concrete	2
C E 123--Hydraulics Laboratory	1	C E 130b--Highway Engineering	3

C E 130a--Highway Engineering	3	C E 151--Water Supply & Waterworks	2
C E 49--Railway Constr & Maint		C E 152--Sewers & Sewage Disposal	2
or		C E 159--Design & Operation of	
C E 175--Timber Structures		Waterworks and Sewers	2
C E 173b--Steel Structures	2	*Non-technical Elective	3
*Non-technical Elective	<u>3</u>		
	19		<u>18</u>

*See Statement on Options and Electives.

OPTION TWO

Architectural Engineering

FRESHMAN YEAR same as Option One.

SOPHOMORE YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
C E 2a--The Engineering Profession	0	C E 2b--The Engineering Profession	0
Math 20a--Differential Calculus	4	Math 20b--Integral Calculus	4
Phys 3a--General College Physics	3	Phys 3b--General College Physics	3
Phys 4a--Physics Laboratory	2	Phys 4b--Physics Laboratory	2
C E 16a--Route Surveying	2	A M 3--Statics	3
Art 61--Elementary Drawing	2	Art 62--Basic Design	3
Military or Air Science	2	A E 1--Architectural Rendering	2
*Non-technical Elective	<u>3</u>	Military or Air Science	<u>2</u>
	18		19

JUNIOR YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
C E 3a--The Engineering Profession	0	C E 3b--The Engineering Profession	0
A M 100--Strength of Materials	4	C E 171b--Theory of Structures	3
C E 81--Testing Materials	1	C E 173a--Steel Structures	3
C E 171a--Theory of Structures	3	A E 7b--Building Construction	3
A E 7a--Building Construction	3	A E 4b--Architectural Design	3
A E 4a--Architectural Design	3	Art 145b--History of Architecture	2
Art 145a--History of Architecture	2	E E 101--Fund of Elec Machinery	3
*Non-technical Elective	<u>2</u>	A M 4--Dynamics	<u>2</u>
	18		19

SUMMER TERM

Surveying Camp - 6 Weeks

C E 15--General Surveying	3
C E 16b--Route Surveying	3
C E 17--Hydrographic Surveying	<u>1</u>
	7

FIRST SEMESTER		SENIOR YEAR		SECOND SEMESTER	
	Crs		Crs		Crs
C E 4a--The Engineering Profession	0	C E 4b--The Engineering Profession	0		
C E 110a--Reinforced Concrete	3	C E 110b--Reinforced Concrete	2		
C E 120--Hydraulics	2	C E 173b--Steel Structures	2		
C E 123--Hydraulics Laboratory	1	C E 23--Seminar	1		
A E 6a--Advanced Arch Design	4	E A 102--Engineering Administration	3		
M E 141a--Mech & Elec Equip for bldgs	3	M E 141b--Mech & Elec Equip for Bldgs	3		
FP & SE 101a--Fire Protection Engr	2	A E 6b--Adv Architectural Design	4		
*Non-technical Elective	3	Econ 51--Principles of Economics	3		
	<u>18</u>		<u>18</u>		

*See statement on Options and Electives.

Curricula Leading to the Degree of Bachelor of Science in
Electrical Engineering

FIRST SEMESTER		FRESHMAN YEAR		SECOND SEMESTER	
	Crs		Crs		Crs
E E 1a--The Engineering Profession	0	E E 1b--The Engineering Profession	0		
Eng 1a--English Composition	3	Eng 1b--English Composition	3		
Math 17--College Algebra	3	Math 19--Plane Analytic Geometry	3		
Math 18--Plane Trigonometry	3	Chem 2b--Gen Chemistry for Engrs	4		
Chem 2a--Gen Chemistry for Engrs	4	E D 1b--Descriptive Geometry	2		
E D 1a--Elem Engineering Drawing	2	*Non-technical Elective	3		
Military or Air Science	2	Military or Air Science	2		
Physical Education	1	Physical Education	1		
	<u>18</u>		<u>18</u>		

FIRST SEMESTER		SOPHOMORE YEAR		SECOND SEMESTER	
	Crs		Crs		Crs
E E 2a--The Engineering Profession	0	E E 2b--The Engineering Profession	0		
Phys 3a--General College Physics	3	Phys 3b--General College Physics	3		
Phys 4a--Physics Laboratory	2	Phys 4b--Physics Laboratory	2		
Math 20a--Differential Calculus	4	Math 20b--Integral Calculus	4		
Met E 26--Engineering Metallurgy	3	A M 3--Statics	3		
E E 11--Electrical Laboratory	1	E E 21R--Principles of Elec Engr	3		
M E 15a--Manufacturing Processes	2	E E 21L--Principles of Elec Engr Lab	1		
Military or Air Science	2	Military or Air Science	2		
	<u>17</u>		<u>18</u>		

FIRST SEMESTER		JUNIOR YEAR		SECOND SEMESTER	
	Crs		Crs		Crs
E E 3a--The Engineering Profession	0	E E 3b--The Engineering Profession	0		
E E 114R--Alternating Current Circ	3	E E 116R--Alternating Current machinery	3		
E E 114L--Alt Current Circ Lab	1	E E 116L--Alternating Current mach Lab	1		

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E E 115R--Direct Current Machinery	2	E E 120--Elec Circuit Analysis	3
E E 115L--Direct Current Mach Lab	1	E E 161R--Vacuum Tube Electronics	3
Math 35--Differential Equations	2	E E 161L--Vacuum Tube Electronics Lab	1
A M 100--Strength of Materials	4	M E 134--Elem of Engr Thermodynamics	3
Eng 6--Essentials of Speech	3	A M 4--Dynamics	2
*Non-technical Elective	3	*Non-technical Elective	3
	<u>19</u>		<u>19</u>

OPTION ONE

Electronics and Communication Engineering

SENIOR YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
E E 4a--The Engineering Profession	0	E E 4b--The Engineering Profession	0
E E 151a--Seminar	1	E E 151b--Seminar	1
E E 108R--Industrial Electronics	2	E E 172R--Automatic Control Systems	3
E E 108L--Industrial Elec Lab	1	E E 172L--Automatic Control Sys Lab	1
E E 135R--Networks and Lines	3	E E 164R--Radio and TV Circuits	3
E E 135L--Networks and Lines Lab	1	E E 164L--Radio and TV Circuits Lab	1
E E 162R--Radio Circuits	3	E E 165--Fields and Waves	2
E E 162L--Radio Circuits Lab	1	E A 102--Engineering Administration	3
#Technical Elective	3	English 30--Business English	2
*Non-technical Elective	3	*Non-technical Elective	3
	<u>18</u>		<u>19</u>

#Math 146--Algebraic Methods in Engineering 3 credits

#Physics 155a--Fundamental Atomic and Nuclear Physics 3 credits

#Physics 111--Electricity and Magnetism 3 credits

*See statement on Options and Electives.

OPTION TWO

Electric Power Engineering

SENIOR YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
E E 4a--The Engineering Profession	0	E E 4b--The Engineering Profession	0
E E 151a--Seminar	1	E E 151b--Seminar	1
E E 107R--Electrical Controls	2	E E 108R--Industrial Electronics	2
E E 107L--Electrical Controls Lab	1	E E 108L--Industrial Electronics Lab	1
E E 123--Elec Equipment Problems	2	E E 135R--Networks and Lines	3
E E 137--Elec Power Trans & Dist	3	E E 135L--Networks and Lines Lab	1
E A 102--Engineering Administration	3	E E 136R--Illumination Engineering	2
#Technical Elective	3	E E 136L--Illumination Engr Lab	1
*Non-technical Elective	3	E E 118--Elec Power Plant Equipment	3
		English 30--Business English	2
		*Non-technical Elective	3
	<u>18</u>		<u>19</u>

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#E E 117--Advanced Alternating Current Machinery	3 credits
#Math 146--Algebraic Methods in Engineering	3 credits
#M E 108--Internal Combustion Engines	3 credits
#M E 116--Elementary Heating, Ventilating, and Air Conditioning	3 credits
*See statement on <u>Options</u> and <u>Electives</u> .	

Curricula Leading to the Degree of Bachelor of Science in
Mechanical Engineering

FRESHMAN YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
M E 1a--The Engineering Profession	0	M E 1b--The Engineering Profession	0
Eng 1a--English Composition	3	M E 5--Slide Rule	1
Math 17--College Algebra	3	Eng 1b--English Composition	3
Math 18--Plane Trigonometry	3	Math 19--Plane Analytic Geometry	3
Chem 2a--Gen Chem for Engineers	4	Chem 2b--Gen Chem for Engineers	4
E D 1a--Elem Engineering Drawing Military or Air Science	2	E D 1b--Descriptive Geometry	2
Physical Education	1	*Geog 10--Economic Geog Survey	3
		Military or Air Science	2
		Physical Education	1
	<u>18</u>		<u>19</u>

SOPHOMORE YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
M E 2a--The Engineering Profession	0	M E 2b--The Engineering Profession	0
Phys 3a--General College Physics	3	Phys 3b--General College Physics	3
Phys 4a--Physics Laboratory	2	Phys 4b--Physics Laboratory	2
Math 20a--Differential Calculus	4	Math 20b--Integral Calculus	4
E D 18--Adv Engineering Drawing	2	M E 20--Anal of Experimental Data	2
M E 15a--Manufacturing Processes	2	M E 15b--Manufacturing Processes	2
*Econ 51--Principles of Economics	3	A M 3--Statics	3
Military or Air Science	2	Military or Air Science	2
	<u>18</u>		<u>18</u>

JUNIOR YEAR

FIRST SEMESTER	Crs	SECOND SEMESTER	Crs
M E 3a--The Engineering Profession	0	M E 3b--The Engineering Profession	0
M E 104a--Engineering Thermodynamics	3	M E 104b--Engineering Thermodynamics	3
A M 2--Mechanisms	3	M E 107--Fluid Mechanics	4
A M 7--Dynamics	3	M E 100a--Machine Design	3
A M 100--Strength of Materials	4	M E 112--Mechanical Laboratory	2
Math 35--Differential Equations	2	Met E 37--Adapt Metallurgy for Engrs	3
*Eng 6--Essentials of Speech	3	*Soc 25--Collective Behavior	3
	<u>18</u>		<u>18</u>

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OPTION ONE
Air Conditioning

SENIOR YEAR

FIRST SEMESTER

	Crs
M E 4a--The Engineering Profession	0
M E 109--Refrigeration	3
M E 114a--Air Cond, Heat, & Ventila	3
M E 129--Elements of Heat Transfer	3
M E 113a--Mechanical Laboratory	3
M E 122a--Seminar	1
E E 105a--Elec Engr Circ & Mach	3
M E 100b--Machine Design	3
	18

SECOND SEMESTER

	Crs
M E 4b--The Engineering Profession	0
M E 113b--Mechanical Laboratory	2
M E 114b--Air Cond, Heat, & Ventila Des	4
M E 105--Power Plant Engineering	3
A M 107--Mechanical Vibrations	3
E E 105b--Elec Engr Circ & Mach	3
E A 102--Engineering Administration	3
<u>or</u>	
Chem 147a--Physical Chem for Engrs	4
<u>or</u>	
Phys 155a--Fund Atomic & Nuclear Phys	3
	18 or 19

OPTION TWO

Aeronautical Engineering

SENIOR YEAR

FIRST SEMESTER

	Crs
M E 4a--The Engineering Profession	0
M E 130--Applied Aerodynamics	3
M E 131a--Airplane Design	3
M E 129--Elements of Heat Transfer	3
M E 100b--Machine Design	3
M E 113a--Mechanical Laboratory	2
M E 122a--Seminar	1
E E 105a--Elec Engr Circuits & Mach	3
	18

SECOND SEMESTER

	Crs
M E 4b--The Engineering Profession	0
M E 135--Experimental Aerodynamics	3
M E 131b--Airplane Design	3
<u>or</u>	
M E 105--Power Plant Engineering	3
M E 108--Internal Combustion Engines	3
M E 13b--Internal Comb Engine Lab	1
M E 113b--Mechanical Laboratory	2
A M 107--Mechanical Vibrations	3
E E 105b--Elec Engr Circuits & Mach	3
	18

OPTION THREE

Industrial Engineering

SENIOR YEAR

FIRST SEMESTER

	Crs
M E 4a--The Engineering Profession	0
M E 137--Motion and Time Study	4
M E 138--Production Engineering	3
M E 100b--Machine Design	3
M E 113a--Mechanical Laboratory	2
M E 129--Elements of Heat Transfer	3
E E 105a--Elec Engr Circuits & Mach	3
	18

SECOND SEMESTER

	Crs
M E 4b--The Engineering Profession	0
M E 133--Tool Design	3
M E 139--Plant Layout	3
M E 113b--Mechanical Laboratory	2
M E 122a--Seminar	1
A M 107--Mechanical Vibrations	3
E E 105b--Elec Engr Circuits & Mach	3
E A 102--Engineering Administration	3
	18

*With the approval of the Head of the Department, other subjects may be substituted.

Minutes of the University Faculty, December 12, 1955

Curriculum Leading to the Degree of Bachelor of Science in
Metallurgical Engineering

FRESHMAN YEAR		SECOND SEMESTER	
FIRST SEMESTER	Crs		Crs
Met E 1a--The Engineering Profession	0	Met E 1b--The Engineering Profession	0
Eng 1a--English Composition	3	Eng 1b--English Composition	3
Math 17--College Algebra	3	Math 19--Plane Analytic Geometry	3
Math 18--Plane Trigonometry	3	Chem 2b--Gen Chem for Engineers	4
Chem 2a--Gen Chem for Engineers	4	E D 1b--Descriptive Geometry	2
E D 1a--Elem Engineering Drawing	2	Met E 27--Gen Elem Metallurgy	3
Military or Air Science	2	Military or Air Science	2
Physical Education	1	Physical Education	1
	<u>18</u>		<u>18</u>
SOPHOMORE YEAR		SECOND SEMESTER	
FIRST SEMESTER	Crs		Crs
Met E 2a--The Engineering Profession	0	Met E 2b--The Engineering Profession	0
Math 20a--Differential Calculus	4	Chem 22--Analytical Chemistry	5
Phys 3a--General College Physics	3	Math 20b--Integral Calculus	4
Phys 4a--Physics Laboratory	2	Phys 3b--General College Physics	3
Met E 33--Extractive Metallurgy	5	Phys 4b--Physics Laboratory	2
*Non-technical Elective	3	*Non-technical Elective	3
Military or Air Science	2	Military or Air Science	2
	<u>19</u>		<u>19</u>
JUNIOR YEAR		SECOND SEMESTER	
FIRST SEMESTER	Crs		Crs
Met E 3a--The Engineering Profession	0	Met E 3b--The Engineering Profession	0
Chem 147a--Physical Chem for Engrs	4	Chem 147b--Physical Chem for Engrs	4
Phys 123a--Heat and Thermodynamics	3	Phys 123b--Heat and Thermodynamics	3
E E 101--Fund of Elec Machinery	3	Met E 166--Minerals Beneficiation	3
Met E 140--The Science of Metals	3	Met E 142--Ferrous Metallography and Heat Treatment	3
Econ 51--Principles of Economics	3	Met E 60--Met Lab and Shop Practice	3
Met E 144--Non-Ferrous Metallography and Heat Treatment	3	*Non-technical Elective	3
	<u>19</u>		<u>19</u>
SENIOR YEAR		SECOND SEMESTER	
FIRST SEMESTER	Crs		Crs
Met E 4a--The Engineering Profession	0	Met E 4b--The Engineering Profession	0
A M 3--Statics	3	A M 100--Strength of Materials	4
Phys 155a--Fund Atomic & Nuclear Phys	3	Met E 143b--Physics of Metals	3
Met E 132--Metallurgical Calculations	3	Met E 175b--Seminar	1
Met E 175a--Seminar	1	*Non-technical Elective	3
Met E 143a--Physics of Metals	3	*Technical Elective	3
*Non-technical Elective	3	*Technical Elective	3
*Technical Elective	3		<u>17</u>
	<u>19</u>		

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

Curriculum Leading to the Degree of Bachelor of Science in Mining Engineering

FRESHMAN YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
Min E 1a--The Engineering Profession	0	Min E 1b--The Engineering Profession	0
Eng 1a--English Composition	3	Eng 1b--English Composition	3
Math 17--College Algebra	3	Math 19--Plane Analytic Geometry	3
Math 18--Plane Trigonometry	3	Chem 2b--Gen Chem for Engineers	4
Chem 2a--Gen Chem for Engineers	4	E D 1b--Descriptive Geometry	2
E D 1a--Elementary Engr Drawing	2	C E 12--Plane Surveying	2
Military or Air Science	2	Military or Air Science	2
Physical Education	1	Physical Education	1
	<u>18</u>		<u>17</u>

SOPHOMORE YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
Min E 2a--The Engineering Profession	0	Min E 2b--The Engineering Profession	0
Math 20a--Differential Calculus	4	Math 20b--Integral Calculus	4
Phys 3a--General College Physics	3	Phys 3b--General College Physics	3
Phys 4a--Physics Laboratory	2	Phys 4b--Physics Laboratory	2
Geol 12a--Elem Geol for Engineers	3	Geol 12b--Elem Geol for Engineers	3
Min E 25--Elements of Mine Surveying	2	Chem 22--Analytical Chemistry	5
*Non-technical Elective	3	Military or Air Science	2
Military or Air Science	2		
	<u>19</u>		<u>19</u>

JUNIOR YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
Min E 3a--The Engineering Profession	0	Min E 3b--The Engineering Profession	0
A M 3--Statics	3	A M 100--Strength of Materials	4
Min E 126--Elements of Mining	3	Met E 27--General Elem Metallurgy	3
E E 101--Fundamentals of Elec Mach	3	Met E 166--Minerals Beneficiation	3
Econ 51--Principles of Economics	3	E E 103--Elec Lab for Mining Engineers	1
Geol 61a--Mineralogy	3	Geol 61b--Mineralogy	3
*Non-technical Elective	3	*Non-technical Elective	3
	<u>18</u>		<u>17</u>

SENIOR YEAR

FIRST SEMESTER

SECOND SEMESTER

	Crs		Crs
Min E 4a--The Engineering Profession	0	Min E 4b--The Engineering Profession	0
C E 171a--Theory of Structures	3	C E 81--Testing Materials	1
Min E 130--Mineral Industries Adm.	3	C E 120--Hydraulics	2
Min E 145--Mining Methods	3	C E 123--Hydraulics Laboratory	1
Min E 137--Mine Plant & Machinery	3	M E 134--Elem of Engr Thermodynamics	3
Min E 175a--Seminar	1	Min E 132--Mine Rescue Training & First Aid	0
*Non-technical Elective	3	Min E 136--Mine Ventilation	3
*Technical Elective	3	Min E 139--Valuation of Mineral Prop	3
	<u>19</u>	*Non-technical Elective	3
		*Technical Elective	3
			<u>19</u>

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

Dean Spivey presented recommendations from the Graduate Council that graduate credit be approved for certain courses. The University Faculty approved the recommendations from the Graduate Council.

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

Art 165c. Advanced Painting. (3) Amyx or Adams

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

Animal Industry 260. Physiology of Reproduction. (3) R. H. Dutt
Physiological processes of reproduction in farm animals, gonadal functions; endocrine relationships; fertility; and factors affecting reproductive efficiency.
Prerequisites: A. I. 100, or A. I. 120, or A. I. 140 and A. P. 101.

Anthropology 500-1, 2, 3. Thesis. (0)

Modern Foreign Languages 295. Seminar--Main Currents of Romance and German Literatures.

(3) Hegeman, Ryland and Server

A survey course which will attempt to give the student a comprehensive picture of the literary contributions that have been made through French, German, German, and Spanish cultures. Prerequisite: A reading knowledge of one of the languages involved.

There was some discussion of absences before or after holidays and a motion was made that where a holiday falls on Monday, Friday as well as Saturday be considered as the day before a holiday. The Faculty voted to refer the motion to the Rules Committee for study and recommendation.

President Donovan wished the members of the Faculty a happy Christmas Season following which the Faculty adjourned.

Robert L. Mills

Robert L. Mills
Secretary