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Approved the following new courses:

Math: 6. Freshman Mathematics, 35. Concepts of Elem. Math., 45. Statics, 141, Elem. Probability, 280. Boundary Value Problems.
 Chem. 110. Introduction to Radioisotopes Chem.
 Physics 201. Senior Lab., 202 Senior Lab. 206. Topics in Physics.
 Geology 40. Field Methods, 111. Micropaleontology, 140. Prin. of Stratigraphy
 Music 200 Band Directors Symposium
 Econ. 35v. Introductory Econ., 36v. Economic Prin. and Problems
 Agri. 1. Marketing Farm Products

32.

Nov. 13. 1962

Minutes of the meeting of the Faculty Senate, Tuesday, November 13, at 4:00 p.m. in the Office of the Dean of the Faculty.

Members present: Mr. Bartholomew, Mr. Campbell, Dr. Coder, Mr. Coulson, Mr. Dalton, Dr. Dick, Dr. Kinsinger, Mr. McKee, Miss Rinker, Mr. Slechta, Mr. Spomer, Miss Veed, Dr. Garwood, Chr.

Member absent: Mrs. Colburn.

The meeting was called to order by the Chairman, Dr. Garwood. He reported that the Committee for the Examination of New Courses, Dr. Kinsinger, Mr. Slechta, Miss Veed, and Dr. Garwood, met with the division chairman and staff members from the divisions. Thursday the Committee met with the physical science group and also considered the request of the music and economics and business divisions. On Friday they met with the biological science group and also with Dr. Cain to consider the applied arts course. Saturday the meeting was with the division of language, literature and speech and with Dr. Wood to consider the request of the education, philosophy and psychology division. The Committee went over the need, evaluation of the request in relation to the entire curricula, etc., with the chairman and staff members.

The report of the Committee's work was duplicated and placed in the hands of the Faculty Senate members prior to the Senate meeting so that each Senate member would be familiar with the Committee's recommendations.

PHYSICAL SCIENCE

Mathematics:

RECOMMENDATION: Mr. Coulson recommended and it was seconded and approved that the Senate approve the following courses in mathematics:

6. Freshman Mathematics. Five cr. hrs. Prerequisite, one and one-half years of High School Algebra and one year of High School Geometry. This course will incorporate the material of courses 3 and 5 but will treat the material from a modern standpoint. Recommended for students who have a good foundation in high school mathematics, but who are not prepared to take 42.

35. Concepts of Elementary Mathematics. ^{Three cr. hrs.} Prerequisite, mathematical proficiency. This course is designed for prospective teachers of elementary school mathematics and for liberal arts students. The structure of arithmetic is studied in detail. Particular topics include: numeration, base ten, bases other than ten, principles of arithmetic--addition and multiplication, rational and irrational numbers, sets, measurements.

45. Statics. *3 cr hrs.* Prerequisite, Physics 36. Composition and resolution of coplanar forces; equilibrium of coplanar forces; application of general laws of statics to structures and simple machines, involving friction; centers of gravity; moments of inertia.

141. Elementary Probability. Three cr. hrs. Prerequisite, Analytic Geometry & Calculus 50 or concurrent enrollment. A treatment of the theory of probability, approached through the Theory of sets. Topics covered will include: Algebra of sets, finite sample spaces, independent events, sophisticated counting, random variables and probability functions, binomial distributions with applications to statistics.

280. Boundary Value Problems. Three cr. hrs. Prerequisite, 154. Partial differential equations of physics, orthogonal functions, Fourier series, Fourier integrals, solution of classical problems of Physics, Bessel functions.

The following courses in the mathematics area will be dropped:

3V. Modern Algebra	3 cr. hrs.
40V. Probability & Statistics	2 cr. hrs.
140V. Teaching Probability & Statistics.	3 cr. hrs.
156V. Teaching Modern Algebra	2 cr. hrs.
150. Theory of Equations.	2 cr. hrs.
157. Analytic Advanced Geometry	3 cr. hrs.

Chemistry:

RECOMMENDATION: Mr. Spomer recommended, and it was seconded and carried, that the following course in chemistry be approved:

110. Introduction to Radioisotopes Chemistry. Three cr. hrs. Prerequisite, Chemistry 12 and Physics 27 or 37. The course is planned for students in the Physical and Biological Sciences and emphasized the methods by which radioisotopes may be applied to problems in these areas. Statistics, radioactive decay, the properties of radiation, the interaction of radiation with matter, radiation detection and instrumentation will be covered. One two-hour lab each week.

The following courses in chemistry are being dropped:

291. Seminar in Science	1 to 4 cr. hrs.
292. Projects in Science.	2 cr. hrs.

Physics:

RECOMMENDATION: Mr. Coulson recommended, and it was seconded and carried, that the following courses in physics be approved:

201. Senior Laboratory. Two cr. hrs. Prerequisites, 162 and 163 or concurrent. A presentation of significant experiments in the areas of optics, electricity, magnetism, heat, and mechanics.

202. Senior Laboratory. Two cr. hrs. Prerequisite, 201. A presentation of significant experiments in the areas of optics, electricity, magnetism, and atomic physics.

206. Topics in Physics. Two cr. hrs. Prerequisite, 163. Topics selected from among mechanics, heat, and thermodynamics, classical statistical mechanics, quantum statistics, physical optics, special theory of relativity and wave mechanics are studied from a theoretical viewpoint.

In the field of physics the following courses will be dropped:

20. Household Physics	4 cr. hrs.
63. Electricity & Magnetism	3 cr. hrs.
64. Electrical Measurements Laboratory.	2 cr. hrs.
190. Exploration Geophysics	3 cr. hrs.
196. Atomic Physics Laboratory	2 cr. hrs.

Geology:

RECOMMENDATION: Mr. McKee recommended, and it was seconded and carried, that the following courses in geology be added to course offerings:

40. Field Methods. Two cr. hrs. Prerequisite, 20 or permission. A study of methods of geologic mapping, recording data, interpretation, and use of precision instruments.

114. Micropaleontology. Three cr. hrs. Prerequisite, 112. An introductory study of the occurrence, preparation and classification for stratigraphic use of Foraminifera, Ostracoda, Conodonts, and other fossils of microscopic size.

140. Principles of Stratigraphy. Three cr. hrs. Prerequisites, 110, 112. A study of the succession of fossil faunas and the correlation of the sedimentary rock record. Emphasis on interpretation of unconformities, facies changes, correlation, and paleogeography.

In the field of geology, the following courses are being dropped:

281. Institute in Earth Science.	3 cr. hrs.
292. Projects in Earth Science	2 cr. hrs.

MUSIC

Music:

RECOMMENDATION: Mr. Slechta recommended, and it was seconded and carried, that the following course in the division of music be added:

200. Band Directors Symposium. Two credit hours. Lecture, class demonstration, and class participation in the study of band problems and their solution. Offered only in conjunction with the High Plains Music Camp. Summer session only. A two-week session, including the last week of summer session and the week of music camp.

ECONOMICS AND BUSINESS

Economics and Business:

RECOMMENDATION: Mr. Spomer recommended, and it was seconded and carried, that the following courses in the division of economics and business be added.

35v. Introductory Economics. Three credit hours. Prerequisite, sophomore standing. A study of production and consumption, stressing the relation to social welfare of our principal economic institutions and processes, such as business organization, marketing, banking, risk bearing, business cycles, arising from misdirection of production and insufficient income, their nature and method of treatment.

36v. Economic Principles and Problems. Three credit hours. Prerequisite, 35v. Continuation of Economics 35v. Attention is given to the distribution of wealth and income; the processes of production; taxation and the business of government; as well as the evolution of American agriculture, the American farm problem, problems of labor transportation and an evaluation of contrasting economic systems.

The following courses are being dropped:

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| 190. | Advanced Principles | 3 cr. hrs. |
| 13. | Office Practice | 2 cr. hrs. |
| 64. | Hist. Geography of U.S. | 3 cr. hrs. |

BIOLOGICAL SCIENCE

RECOMMENDATION: Miss Rinker recommended, and it was seconded and carried, that the following courses in the biological science division be added:

Agriculture:

32. Marketing Farm Products. Three credit hours. The course will include a consideration of some of the practices and problems of the marketing process. Attention will be given to market organization and function, grading, costs involved, and the marketing procedure of various agricultural commodities.

Biology:

129. Evolution. Three credit hours. History of the principle and theories of evolution.

Botany:

158. Fresh Water Algae. Three credit hours. This is a study of the taxonomy, morphology and life histories of the local fresh water algae. The course includes laboratory and field study together with lecture and a survey of the literature in the phycological field.

Zoology:

48. General Vertebrate Zoology. Three credit hours. Principles of classifications; ecology; behavior; and speciation of the vertebrates.

134. Comparative Animal Physiology. Three credit hours. Comparative Animal Physiology with emphasis on the vertebrate classes. Among the processes covered are respiration, osmoregulation, excretion, metabolism, and others.

The following courses in the division of Biological Science are being dropped.

58. Ornamental Plants3 cr. hrs.
230. General Physiology3 cr. hrs.

APPLIED ARTS

Industrial Arts:

RECOMMENDATION: Mr. Spomer recommended, and it was seconded and carried, that the following course be added in the division of industrial arts:

10. Industrial Arts Calculations. Two credit hours. A course designed to cover the mathematical calculations required of all industrial arts students in the five basic areas of the curriculum.

The division is dropping the following courses:

- 52. Advanced Design 3 cr. hrs.
- 45. General Woodworking Shop. 3 cr. hrs.

LANGUAGE, LITERATURE AND SPEECH

Language:

RECOMMENDATION: Mr. Coulson recommended, and it was seconded and carried, that the following courses be approved in language:

- 1. Russian. Three credit hours. A first course in Russian. The use and comprehension of conversational Russian is given special emphasis. Facilities of the Language Laboratory are regularly utilized.
- 2. Elementary Russian. Three credit hours. Prerequisite 1, or its equivalent.
- 10. Daily Elementary Russian. Five credit hours. A first course in Russian. The use and comprehension of conversational Russian is given special emphasis. Facilities of the Language Laboratory are regularly utilized. The series Russian 10 and 11 covers in two semesters substantially the same material as that covered by Russian 1, 2 and 23 in three semesters.
- 11. Daily Elementary Russian. Five credit hours. Prerequisite 10, or its equivalent. Continuation of course 10. Introduction of reading material.
- 23. Elementary Russian. Three credit hours. Prerequisite 2, or its equivalent. Continuation of course 2. Introduction of reading material.
- 34. Intermediate Conversation and Reading. Three credit hours. Prerequisite 11 or 23, or equivalent as determined by the instructor. Graduated conversational material, with readings to serve as a general introduction to Russian literature.
- 67. Russian Civilization. Three credit hours. The culture and civilization of Russia from its origin to the present as revealed in history, literature, and the fine arts.
- 66. French Literature of the Seventeenth Century. Three credit hours. A survey of the main literary genres of the seventeenth century, emphasis on the classical drama.

71. Contemporary French Literature. Three credit hours. Prerequisite, 34. A survey of the main types and schools of twentieth century French literature down to the present day.

76. French Literature of the Nineteenth Century. Three credit hours. A brief survey of the main trends of the romantic, realistic, and naturalistic movements.

57. Advanced Spanish Grammar and Composition. Two credit hours. Prerequisite, 50 or its equivalent. Continuation of course 50.

68. Latin American Customs and Culture. Two credit hours. Prerequisite, permission of instructor. A study of the customs, culture, and manners of Spanish America with a view to developing an understanding of the people and their attitudes.

The language area is dropping:

- 55. French Novel 3 cr. hrs.
- 65. Seventeenth Century French Drama . . . 3 cr. hrs.
- 70. Modern French Novel. 3 cr. hrs.

Literature:

RECOMMENDATION: Mr. Bartholomew recommended, and it was seconded and carried, that the following courses in literature be approved:

0. English for Foreign Students. 0 credit hours. The development of speech skills, reading comprehension, pronunciation of English, and an understanding of American customs, culture, and manners.

79. Russian Literature in Translation. Three credit hours. A study in English translation of representative works of Russian literature. Main emphasis on the 19th century novel (great age of Russian novel).

114. Major American Authors I. Three credit hours. A study of five significant American authors, emphasizing their philosophical and literary contributions to the history of ideas.

225. Approaches to Language. Two credit hours. A survey of the main approaches to the study of language--historical, structural, semantic, etc. Designed to help teachers find approaches that will be profitable in the classroom. Will be offered directly as a night class, Sat., or summer-session class. Required for the degree of Master of Science in Secondary Education with major in English.

326. Approaches to Literature. Two credit hours. A survey of the main approaches to the study of literature--historical, aesthetic, philosophical, political, psychological, etc. Designed to help teachers find approaches that ~~will be profitable in the classroom. Will be offered~~

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chiefly as a night class, Sat. class, or summer-session class. Required for the degree of Master of Science in Secondary Education with a major in English.

The literature area is dropping:

70.	Puppetry	2 cr. hrs.
302.	Anglo-Saxon.	3 cr. hrs.

Speech:

RECOMMENDATION: Mr. Spomer recommended, and it was seconded and carried, that the following courses be added in speech:

15. Make-up. One credit hour. A course in the theory and practice of stage make-up. Emphasis will be placed on the actual application of stage make-up.

101. The High School Forensics Program. Three credit hours. Prerequisite, Jr. standing. The course provides training in the operation of the high school program. It includes training in the preparation of performances other than debate.

190. American Public Address I. Three credit hours. A study of great speakers and speeches from Colonial days to the present. Attention will be given to the great issues of the times.

The following courses in speech are being dropped:

125.	Argumentation	2 cr. hrs.
230.	Forms of Public Address	3 cr. hrs.

EDUCATION, PHILOSOPHY, AND PSYCHOLOGY

It was decided that the addition of the course 57. Observation and Participation should be discussed at a later meeting.

The meeting adjourned at 5:15 p.m.

John D. Garwood, Chairman

Standlee V. Dalton, Secretary

Florence M. Bodmer, Recorder