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COURSES APPROVED: Political Science 164.
" " Industrial Arts 112, 111, 240, 230 and 163.
" " Agriculture 15, 35 and 170.
" " Literature 95
" " Geology 75, 135, 165, 175, 210, 212, 235, 240 and 250.
" " Mathematics 91 and 143.
COURSES DROPPED: Mathematics 141, 3 cr. hrs., and 142, 3 cr. hrs.

Discussion: Letters to Freshmen with less than 1.00 Grade Point Average at end of first nine weeks.

Minutes of the meeting of the Faculty Senate Tuesday, November 5, 1968, at 3:30 p. m., in the Office of the Dean of the Faculty.

Members Present: Mr. Ginther, Mr. Schroder, Dr. Thomas, Dr. Sackett, Miss Christopher, Dr. Miller, Mrs. Theis, Dr. Witten, Dr. Oliva, Dr. Rice, Mr. Dalton, Mr. Finnin, and Dr. Garwood, Chairman.

Members Absent: Dr. Hamilton and Mrs. Popp.

Also Present: Mr. Kellerman.

The meeting was called to order by Dr. Garwood, Chairman.

NEW COURSE PROPOSALS. Dr. Garwood announced the remainder of the new course proposals would be discussed at today's meeting.

Dr. Thomas stated the course in Political Science would be considered.

164. The Legislative Process. 3 cr. hrs. An analysis of the legislative sub-systems in the United States with emphasis on membership recruitment, internal organization, committees, legislative oversight, lobbying and other problems. Prerequisite 34.

Dr. Thomas stated this is not a required course but is recommended for majors for graduation.

RECOMMENDATION: It was moved by Dr. Thomas that course 164 The Legislative Process, 3 cr. hrs., as described above, be approved. Motion seconded by Dr. Sackett. Motion carried.

Dr. Thomas stated courses in Industrial Arts would be considered next.

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112. Vacuum and Pressure Forming. 3 cr. hrs. Practice in the methods and techniques of the uses of vacuum and pressure in forming of plastics. Forming jigs and fixtures will be constructed by the student. Emphasis will be placed on industrial technology.
111. Reinforcing and Casting. 3 cr. hrs. Practice in the methods and techniques of the uses of resins applicable for casting and reinforcing. Emphasis will also be placed on industrial technology.

Dr. Thomas stated there is strong defense for the course in Plastics. There is great demand for this course and staff members are available.

240. Applied Electronics. 3 cr. hrs. Designed for students with an understanding of basic electricity. Primarily for teachers in the field who need to add electronics to their programs. Includes a review of basic electrical principles, with the addition of electronic theory, and laboratory, electrical course construction, instructional aids, and project construction.

Dr. Thomas stated this course was needed to strengthen the graduate program.

Admission is by permission.

230. Applied Electricity. 3 cr. hrs. Designed for students with no previous electrical experience, those with some experience from armed service, etc., and teachers in the field. Includes review of fundamental technical information, electrical course construction, instructional aids, and project construction. Not open to those having credit for General Electricity 30. Prerequisite, permission.

Dr. Thomas stated the staff will investigate if the student has adequate knowledge of such a course before he could enroll in 230 Applied Electricity.

163. Individual Study of Industrial Materials, Tools and Processes. 3 cr. hrs. Independent study of specialized problems of design, material selection and fabrication in a specified area of industrial arts. Prerequisite - 9 hours of Industrial Arts in area of specialization.

Dr. Thomas said the course will be farmed out to persons best qualified to

teach the course. There will be no staff problem. The course will be handled like Problems or Thesis.

One Senate member commended the [redacted] division for its ingenuity in introducing such courses. The discussion revolved about the staff handling of such courses.

RECOMMENDATION: It was moved by Dr. Thomas that courses 112 Vacuum and Pressure Forming, 3 cr. hrs., 111 Reinforcing and Casting, 3 cr. hrs., 240 Applied Electronics, 3 cr. hrs., 230 Applied Electricity, 3 cr. hrs., and 163 Individual Study of Industrial Materials, Tools and Processes, 3 cr. hrs., as described above, be approved. Motion seconded by Mr. Schroder. Mr. Ginther commented that by 1970 students must have worked in six different areas for certification. Motion Carried.

Dr. Thomas stated courses in Agriculture would be considered.

15. Livestock Junior Judging Team Activity. 1 cr. hr. Training for membership on judging teams.

Dr. Thomas described this course as a Practicum in Agriculture for those interested in team judging of livestock, etc.

35. Techniques of Livestock Evaluation. 2 cr. hrs. Evaluation of livestock including comparative judging, grading, classification, and selection of beef cattle, swine, sheep, and horses. Laboratory 4 hours a week. Prerequisite: Animal Husbandry 4.
170. Animal Nutrition. 3 cr. hrs. A scientific approach to animal nutrition involving the mechanisms through which feed nutrients are utilized by farm animals. Prerequisites: Principles of Feeding 50 and Organic Chemistry 26.

RECOMMENDATION: It was moved by Dr. Thomas that course 15 Livestock Junior Judging Team Activity, 1 cr. hr., 35 Techniques of Livestock Evaluation, 2 cr.

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hrs., and 170 Animal Nutrition, 3 cr. hrs., as described above, be approved.

Motion seconded by Mr. Schroder. Motion carried.

Dr. Thomas stated the Senate would next consider the course in literature.

95. Studies in Comparative Literature. 3 cr. hrs. Prerequisite 26 or English major. (a) Whitman and Hopkins; (b) Studies in the Epic.

Dr. Thomas said this course was omitted through oversight when the changes in the present English curriculum were formulated.

RECOMMENDATION: It was moved by Dr. Thomas that course 95 Studies in Comparative Literature, 3 cr. hrs., as described above, be approved. Motion seconded by Mr. Ginther. Motion carried.

Dr. Thomas said courses in Geology would be considered.

75. Introduction to Geophysics. 3 cr. hrs. Prerequisite, permission. Introduction to geophysical methods as applied to solution of geologic problems. A survey of the theories and uses of gravimetric, magnetic, seismic and electrical methods, and earthquake seismology.
135. Optical Mineralogy. 3 cr. hrs. Prerequisites 35, 50 or permission. Application of principles of optics to the study of minerals. Laboratory identification of minerals with petrographic microscope.

Dr. Thomas stated this course will quite frequently be taken by juniors, seniors and graduate students. The course involves quite a bit of equipment but we have the equipment, specimens and personnel.

165. Structural Geology of North America. 3 cr. hrs. Prerequisite 65 or permission. A study of the structural evolution of the North American continent. Includes the deformational and sedimentary events, and concepts of mountain building and continental development.

- 175. Applied Geophysics. 3 cr. hrs. Prerequisite 75. Geophysical methods applied to the solution of geologic problems and to more fundamental studies of the physics of the earth. Detailed study of some of the theories and uses of geophysical methods.
- 210. Advanced Vertebrate Paleontology. 3 cr. hrs. Prerequisites 110 or Zoology 55. Detailed studies of the structure and evolution of fossil fishes, birds, and reptiles, especially those from the Cretaceous rocks of Kansas.
- 212. Advanced Invertebrate Paleontology. 3 cr. hrs. Prerequisites 112 or Zoology 191. Studies of the morphology and evolution of the Metazoan invertebrates that occur in the paleontologic record. Emphasis on the Mollusca.
- 235. Advanced Mineralogy. 3 cr. hrs. Prerequisite 135 or permission. Advanced topics in crystallography, crystal chemistry, and optical crystallography.
- 240. Stratigraphy of the Kansas Cretaceous. 3 cr. hrs. Prerequisites 112 or 140. The fossils, index fossil zones, correlation, and succession of beds of the Cretaceous sequence of western Kansas in detail. Field trips and laboratory studies are both part of the course.
- 250. Advanced Petrology. 3 cr. hrs. Prerequisites 135 or permission. The petrology and petrography of igneous, metamorphic and sedimentary rocks. Detailed mineralogy, chemical composition, occurrence, classification and origin of igneous, metamorphic and sedimentary rocks.

Dr. Thomas stated these courses will require additional staff. It was hoped by the time this program is operative we will have adequate staff. Some of the Geology courses will be offered in 1969, 1970 and 1971 and when the need arises. The course proposals represent courses for a curriculum in the future when additional staff members are available.

RECOMMENDATION: It was moved by Dr. Thomas that 75 Introduction to Geophysics, 3 cr. hrs., 135 Optical Mineralogy, 3 cr. hrs., 165 Structural Geology of North

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America, 3 cr. hrs., 175 Applied Geophysics, 3 cr. hrs., 210 Advanced Vertebrate Paleontology, 3 cr. hrs., 212 Advanced Invertebrate Paleontology, 3 cr. hrs., 235 Advanced Mineralogy, 3 cr. hrs., 240 Stratigraphy of the Kansas Cretaceous, 3 cr. hrs., and 250 Advanced Petrology, 3 cr. hrs., as described above, be approved. Motion seconded by Dr. Sackett. Motion carried.

It was noted that the people in Geology have submitted 5 courses to the Graduate Division in an attempt to build a program suitable for graduate work. If they have no new positions next year, they will not offer the courses for another year. These courses, it was pointed out, are for 3 - 4 years in advance. There is no promise of new staff for next year. At present geology majors look to K-State, South Dakota and other schools for their graduate work. If we had such a program, our students would be able to obtain their masters degree at Fort Hays.

Dr. Thomas stated courses in Mathematics would be considered next.

91. Teaching of Secondary School Mathematics. 2 cr. hrs. This course deals with various methods of teaching secondary school mathematics from a modern viewpoint. Prerequisite, major in mathematics or permission. To be taken concurrently with, or immediately preceding or following the secondary teaching block.

Dr. Thomas noted this is a very changing program. He further stated the course is late and the need for it is great. Dr. Thomas noted this is in addition to general methods course.

Discussion followed about double-listing courses. The Registrar cited a course in Music which might be taught in Education. Some courses relating to methods of teaching are cross-referenced in the Catalog, some are not. The question was raised about uniformity in procedures. Dr. Garwood suggested this matter be

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cleared up with the Division Chairmen. The Registrar stated his office is called upon by the State to clarify/such courses. We must be consistent and designate information about correctly on the transcript and clear the matter with the Divisions.

143. Probability and Statistics. 3 cr. hrs. Prerequisite 42 or 60 or permission. A study of simple probability models, continuous and discreet distributions of random variables, sums of random variables and sampling methods will precede the study of standard topics from statistics such as measures of central tendency and variability, tests of hypothesis and measures of variance.

Dr. Thomas stated this course will replace 141 Elementary Probability and 142 Statistical Methods and will merge into course 143.

RECOMMENDATION: It was moved by Dr. Thomas that 91 Teaching of Secondary School Mathematics, 2 cr. hrs., and 143 Probability and Statistics, 3 cr. hrs., as described above, be approved. Motion seconded by Dr. Miller. Motion carried.

FRESHMEN WITH LESS THAN 1.00 GRADE POINT AVERAGE AT END OF FIRST NINE WEEKS. Dr. Garwood stated last November after the first nine weeks grades came out, the Division Chairmen contacted the freshmen in their division who had grade indexes of less than 1.00. Of 1517 Freshmen, 683 or 45% of the Freshman class had a grade point estimate of less than 1.00 at the end of the first nine weeks. They were broken down as follows: Applied Arts, 92; Biological Sciences, 93; Economics and Business, 134; Education and Psychology, 93; Health, Physical Education and Recreation, 58; Language, Literature and Speech, 46; Music, 14; Nurse Education, 40; Library Science, 2; Physical Science 48 and Social Science, 63. Dr. Garwood stated Data Processing furnished us with the necessary information last year and they will give us a similar list this year

of freshmen students with a grade point of less than 1.00. This list should be available within a week giving the student's name, Hays address, grade, and name and address of parent. Envelopes will be addressed by Duplicating Services to the student and parents and these envelopes will be furnished to the Division Chairmen.

Dr. Garwood stated that last year the Division Chairmen wrote the parents whose sons or daughters were making less than a 1.00 average. The Division Chairmen met with these freshmen. Dr. Dechant and his staff aided some divisions. Some Student Council members and division majors also talked to the students in their Divisions about the significance of achievement in college. These were small group discussions as to why the student was doing less than acceptable work. Basically, the problem seems to be one of motivation.

Dr. Garwood stated that advisers will receive a list of all their advisees' grades. The advisers do not write the letters. The program is centralized and the Division Chairmen do the letter writing. The Division Chairmen may solicit the aid of advisers in writing letters.

One Senate member asked if the students in difficulty last year improved their grades over the year. A study is being conducted of these students.

Mr. Finnin inquired as to what information might be included in a letter to the parents. Dr. Garwood said the Division Chairmen would inform the parents that their son or daughter was making below a "C" average, the grade, and solicit parental support in helping the student.

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Mr. Finnin noted the parents may not know all the factors and he felt such a letter serves a useful purpose. Dr. Garwood suggested the Student Council might offer their services to the Division Chairmen in meeting with students. Any division desiring Student Council help should contact the Student Council Office.

The meeting adjourned at 4:25 p.m.

John D. Garwood, Chairman

Lucille Drees, Recorder