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Applications for new courses approved for the following courses:

Industrial Arts:

56. Digital Computer Circuits - 2 cr. hrs.

Music:

299. Introduction to Music Research - 2 cr. hrs.

(Physical Science Course 36. Geometry for Elementary Teachers tabled; determine if this course is to be listed under both Education and Mathematics.)

Minutes of the meeting of the Faculty Senate, Monday, October 9, 1967, at 3:30 p. m. in the Office of the Dean of the Faculty.

Members Present: Mr. Bachkora, Mr. Schroder, Dr. Thomas, Dr. Hamilton, Mrs. Popp, Mrs. McFarland, Mr. Smith, Dr. Wilkins, Miss Gangwer, Dr. Witten, Mr. Heil, Mr. Dalton and Dr. Garwood, Chairman.

Members Absent: None.

Also Present: Mr. Kellerman and Mr. Tobias.

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

Dr. Garwood stated the Faculty Senate would consider three new course proposals, copies of which had been sent to the members this past week. Additional course proposals have been received and will be considered at a future meeting.

New Course. Industrial Arts. The following course was presented to the Senate by Mr. Gary Tobias:

56. Digital Computer Circuits. 2 cr. hrs. Designed for students with elementary algebra and electronics (Courses 10, 30, 40 and 46.) Includes use of digital machines in business, industrial and scientific organizations, introduction to computer programming, computer number systems (binary and binary-coded-decimal), computer circuitry (diode and transistor) switching circuits, design of logic circuits, introduction to Boolean algebra, and use of block diagrams. The last 8 weeks will be devoted to the basic functions of the four major divisions of digital computers (1) the arithmetic element, (2) the memory unit, (3) input-output devices, and (4) the control element; and their interrelations to each other.

Mr. Tobias said the course was needed by teachers who teach in areas

where computers are used. The course involves a basic understanding of digital devices and would be helpful to pre-engineering students as well as others.

The general objectives of the course are to provide students an opportunity to study the basic operations and use of modern-high-speed computing devices, as well as advanced study of the applications of complex electronic circuitry. This course provides the student an opportunity to study operation of four major parts of the digital computer.

This course would not be a required course of people in industrial arts. It was noted Cessna has 10 new machines but cannot find operators for them. Students will have basic fundamentals before they get into Digital Computing. Mr. Tobias would teach the course.

RECOMMENDATION: It was moved by Dr. Wilkins that course 56 Digital Computer Circuits, 2 cr. hrs. as described above, be approved. Motion seconded. Motion carried.

New Course. Music. The following course was explained by Dr. Wilkins to the Senate:

299. Introduction to Music Research. 2 cr. hrs. Development of familiarity with bibliographical materials useful in music research. Exercises and problems in musical research and description.

Dr. Wilkins stated this course would replace Methods of Research. It will be taught by faculty in the Music Division, probably Dr. Stolba. Students who

have entered graduate school have indicated they cannot write scores as well as they should. This course is designed to remedy this situation. It is proposed that the course be offered in the summer of 1968. It was noted there is sufficient material in the library to handle this course.

RECOMMENDATION: It was moved by Dr. Thomas that 299 Introduction to Music Research, 2 cr. hrs. as described above, be approved. Motion seconded. Motion carried.

Dr. Garwood noted that it is difficult for Senate members to determine the need for a particular course. Presumably, course proposals have been screened by Division Chairmen before sending them to the Faculty Senate.

New Course. Physical Science.

36. Geometry for Elementary Teachers.

This course was discussed by Dr. Witten who indicated the need for this course. There is material available in the library. The course proposal was tabled as it was felt it should be determined if this course is to be listed under both Education and Mathematics.

The Chairman stated that additional new courses would be discussed at next week's meeting.

The meeting adjourned at 4:15 p. m.

John D. Garwood, Chairman

Lucille Drees, Recorder