

UNIVERSITY OF DELAWARE
NEWARK, DELAWARE
19711

UNIVERSITY FACULTY SENATE
303 HULLIHEN HALL
PHONE 302-738-2829

March 22, 1974

MEMORANDUM

TO: All Faculty Members

FROM: John C. Wriston, Jr., Vice President *JCW*
University Faculty Senate

SUBJECT: Regular Senate Meeting, April 1, 1974

In accordance with Section IV, paragraph 6 of the Constitution, the April regular meeting of the University Faculty Senate will be held on Monday, April 1, 1974, at 4 PM in Room 110, Memorial Hall.

AGENDA

- I. Adoption of the Agenda.
- II. Approval of the Minutes of the last regular meeting of March 4, 1974.
- III. Announcements
- IV. New Business
 - A. Report from the Committee on Committees on the question of how the Senate should be involved in implementing and evaluating the 1974-75 Winter Session.
 - B. Nominations to the Nominating Committee from the Committee on Committees. (List will probably not be available until the time of the meeting.)
 - C. Recommendation from the Committee on Graduate Studies that the Senate approve the establishment of a combined B.M.E.-M.M.A.E. program in Mechanical and Aerospace Engineering. See Attachment 1.

Resolved, that the Senate grants approval of the establishment of a combined B.M.E.-M.M.A.E. program in Mechanical and Aerospace Engineering.
 - D. Recommendation from the Committee on Graduate Studies regarding the use of 969, doctoral dissertation, and 868, research, credits; and additional recommendations concerning minimum credit hours for the Ph.D. degree. See Attachment 2.

Resolved, that the Senate grants approval of a policy effective September 1, 1974, which requires that any student standing for a doctoral degree shall have

completed a minimum of 30 course credit hours after admission to a Ph.D. program, at least 9 hours of which shall have been completed in 868, 969, or a combination thereof; that the Student also must have a cumulative index of 3.0 or better; and that if the student has earned a Master's Degree at the University of Delaware, the minimum of 30 credit hours for the Ph.D. degree can include any credits earned beyond the 30 used for the Master's degree.

- E. Recommendation from the Undergraduate Faculty Senators (submitted by Michael Ingersoll):

Be it Resolved, that the Faculty Senate expand its undergraduate representation from two to seven members each to be a representative of the seven University colleges. In addition, the president of the University of Delaware Coordinating Council shall serve as an ex-officio member. Elections for one-year terms shall be held in the spring and commence on May 1. Should vacancies of any college seat occur, the U.D.C.C. Elections Committee shall hold at large special elections to fill these vacancies.

- F. Such items as may come before the Senate. (No motion introduced at this time may be acted upon until the next meeting of the Senate.)

Attachments are in the hands of your Senators. Distribution also includes one copy for each ten faculty members of each department.

JCW/dpe

Attachments (2)

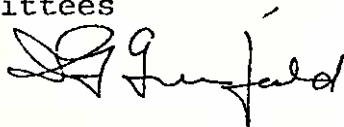
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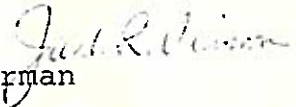
DEPARTMENT OF MECHANICAL AND
AEROSPACE ENGINEERING
107 EVANS HALL
PHONE: 302-738-2421

October 30, 1973

M E M O R A N D U M

TO: Cognizant Faculty Senate Committees

VIA: Dr. I. G. Greenfield 
Dean, College of Engineering

FROM: Dr. Jack R. Vinson 
Professor and Chairman

SUBJECT: A Combined B.M.E. - M.M.A.E. Program in Mechanical
and Aerospace Engineering

Attached is a proposed program which will enable a small number of exceptional students with excellent high school backgrounds to enroll in a program which will enable the granting of both B.M.E. and M.M.A.E. degrees after four years of study at the University. This program has been approved by the Faculty of the College of Engineering at a meeting on October 16, 1973.

The program of studies is intended to provide for this goal of two degrees in four years as follows:

1. The student is assumed to be qualified for sufficient amount of credit by advanced placement to omit the entire freshman year on the basis of demonstrated ability in mathematics, chemistry, physics, English, humanities, and written and graphic communication. EG 125, the "Introduction to Engineering", will be waived.

2. Formal admission to the program and provisional admission to graduate school will be provided to students upon request at the completion of their second year in the program, or who have attained the status of such students, provided an overall G.P.A. of at least 3.25 has been attained.

3. Credit toward the B.M.E. degree for two technical electives will be provided by two technical courses of 600 level and above. MAE 392, the "Engineering Science Laboratory II", and MAE 445/446, the "Senior Project", will be omitted in the combined program, which represents a contraction of 6 credit hours from the normal sequence of a B.M.E. degree and will be replaced by the 6 credit hours of thesis requirement of the M.M.A.E. degree. The usual 30 credit hour M.M.A.E. program is preserved in the combined program.

4. The attached sample program involves a low course load in the final year to enable a student to meet the demands of the thesis work at that time.

5. It is desirable for purposes of professional registration that a student be graduated from an accredited undergraduate program and for this reason both B.M.E. and M.M.A.E. degrees are to be awarded at the completion of the combined program. If a student elects to return to a standard B.M.E. program and to omit the M.M.A.E. degree, he will be awarded the B.M.E. degree upon completion of the regular requirements for that degree. All course credits waived or omitted in the regular program will have to be completed except those omitted by advanced placement.

6. To obtain the M.M.A.E. degree the student must meet a G.P.A. of at least 3.0 in the 30 credit hours of graduate work, as usual.

7. If differences exist between graduate and undergraduate fees for a particular student, the undergraduate fee structure will apply through the end of the first semester of the third year.

Copies of the proposed program and of the current B.M.E. program are attached.

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Combined B.M.E. - M.M.A.E. Program

FIRST YEAR

M 243	4	M 302	3
MEC 211	3	MEC 212	3
DS 208	4	MAE 216	3
MAE 215	3	MAE 307	3
Gen. Edu.	3	Gen. Edu.	3
		H 203	1
	<u>17</u>		<u>16</u>

SECOND YEAR

MEC 301	3	EE xxx	4
MEC 302	1	MAE 361	3
MEC 305	3	Tech. Elec.	9
MEC 306	1		
MAE 391	3		
Gen. Edu.	6		
	<u>17</u>		<u>16</u>

THIRD YEAR

MAE 441	3	MAE 442	3
MAE 863	3	MAE 864	3
Tech. Elec.	6	Tech. Elec.*	9
Gen. Edu.	3		
	<u>15</u>		<u>15</u>

*6 credits to be 600 level and above

FOURTH YEAR

MAE 8xx	9	MAE 8xx	3
MAE 869	3	MAE 869	3
Gen. Edu.	3		
	<u>15</u>		<u>6</u>

TOTAL 117

MECHANICAL ENGINEERING CURRICULUM

May 23, 1972 (Supersedes May 3, 1972)

FRESHMAN YEAR

Anal. Geom. and Calc. M 241	4	Anal. Geom. and Calc. M 242	4
General Chemistry C 103	4	General Physics PS 207.....	4
Intro. to Engineering EG 125	2	Crit. Reading & Writing E 110	3
Engineering Communications EG 132 ...	2	*General Chemistry C 104	3-4
General Education Elective	3		14-15
	<u>15</u>		

SOPHOMORE YEAR

Anal. Geom. and Calc. M 243	4	Diff. Equations M 302	3
Theory and Appl. Mech. MEC 211	3	General Physics ps 208	4
Intro. to Prop. of Mat'ls MAE 215 ...	3	Intro. to Prop. of Mat'ls MAE 216	3
Hist. and Gov. of Delaware H 203	1	Theory and Appl. Mech. MEC 212	3
General Education Elective	3	General Education Elective	3
	<u>14</u>		<u>16</u>

JUNIOR YEAR

Thermodynamics I MAE 307	3	Applied Eng'g Anal. MAE 361	3
Engineering Sci. Lab. I MAE 391	3	Engineering Sci. Lab. II MAE 392	2
Fluid Mech. MEC 305	3	Mechanics of Mat'l MEC 301	3
Fluid Mech. Lab. MEC 306	1	Mechanics of Mat'l/Lab. MEC 302	1
Electrical Engineering EE 314	4	† Technical Electives	6
General Education Elective	3		<u>15</u>
	<u>17</u>		

SENIOR YEAR

Eng'g Design MAE 441	3	Eng'g Design MAE 442	3
Senior Research MAE 445	2	Senior Research MAE 446	2
† Technical Electives	9	† Technical Electives	6
General Education Elective	3	General Education Electives	6
	<u>17</u>		<u>17</u>

Minimum Credit Hours - 125 or 126

† At least 15 credit hours of the technical electives must carry MAE or MET designation.

*This can be replaced by another Science Elective.

969 AND MINIMUM HOUR REQUIREMENTS FOR PH.D. DEGREE

Considerable confusion exists among the various departments in the interpretation and use of 969, doctoral dissertation, and 868, research, credits. The number of 969 credits varies in some departments and colleges between one and twelve while in other departments and colleges there are no requirements at all. Also, the 969 registration is sometimes confused with 868. A further ambiguity exists concerning the minimum number of hours that a student must complete in order to fulfill the requirements for his doctoral degree.

Keeping in mind the fact that Master's programs require a minimum of thirty hours of course credit, the Graduate Committee has recommended a policy which it hopes will standardize the requirement for the doctoral degree. Beginning September 1, 1974, this policy will require that any student standing for a doctoral degree shall have completed a minimum of thirty course credit hours after admission to a Ph.D. program, at least nine hours of which shall have been completed in 868, 969, or a combination thereof. The student also must have a cumulative index of 3.0 or better. If the student has earned a Master's degree at the University of Delaware, the minimum of thirty credit hours for the Ph.D. degree can include any credits earned beyond the thirty used for the Master's degree.