

FEB 20 2007

OFFICE OF THE
SENATE COUNCIL

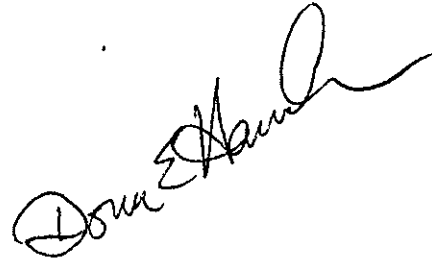
September 14, 2006

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MEMORANDUM

TO: Dr. Phil Kraemer
Chair, Undergraduate Council

FROM: Dr. Donn Hancher
Associate Dean for Academic Affairs



The following proposal is submitted for review by the Undergraduate Council:

- ① General Engineering major for new freshmen
- (2) Revision of Engineering Standing requirements

These proposals were approved by the Engineering Faculty on September 6, 2006.

If you need additional information please contact me.

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**College of Engineering Faculty Meeting
September 6, 2006
Undergraduate Changes Proposed to University Senate**

Approval is being requested by the College of Engineering for changes in two student issues. Item 1 is a minor change allowing new freshmen to not select a specific program, but to have a free semester to consider their program choice. Item 2 proposes more consistency amongst the programs on their requirements for lower level students to qualify for upper division standing earlier in their career. This was a serious problem given to the College on recent accreditation visits.

Both of these Items were approved at a COE Faculty Meeting on September 6, 2006.

Item 1: GENERAL ENGINEERING SELECTION FOR NEW FRESHMEN

- a. Newly admitted Pre-Engineering or Pre-CS Students would be allowed to choose an open major for one semester (12 credit minimum) called General Engineering. Many new students have stated a preference for this process which allows them some freedom in considering more options before selecting a program.
- b. All students must select a program before the end of their first semester, preferably when they register for classes for their second semester.
- c. General Engineering students can take a 101 class of their choosing in the College. Programs might accept this 101 class or demand the students take the program's required 101 class when they enter the program.

NOTE: The college already has an approved Major Code: ENGI in SIS.

Item 2: REVISION OF ENGINEERING STANDING REQUIREMENTS

- a. Students can request qualification for Engineering or CS Standing after completing the required set of engineering standing courses in the first 3 Semesters of the published curriculum in their chosen program.
- b. A maximum GPA of 2.5 can be required by programs using the courses specified by the program to calculate a student's GPA. The criteria must be approved by the Dean. If a program has an over-enrollment problem, it can request a raise in the GPA with the Dean's approval. Changes can only be requested annually to protect students.

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Engineering Standing Admission

Admission to engineering standing in a degree program is necessary in order to be granted a baccalaureate degree in engineering or computer science. Specific departmental requirements for admission to engineering standing are noted below. The same criteria are applied to transfer students with the equivalence of courses determined by the Director of Undergraduate Studies. A student must apply to the specific department for admission to engineering standing. **Note:** The cumulative grade-point average includes all college-level work taken at the University of Kentucky or elsewhere.

Students can request qualification for engineering standing after completing the required set of standing courses in the first 3 semesters of the published curriculum in their chosen program. Each program can specify its engineering standing requirements, but no program may specify a GPA higher than 2.5 for engineering standing.

Requirements by a program for engineering standing may include many items, such as courses counted in first three semesters, repeat options allowed, number of applications for engineering standing allowed, restrictions on taking upper level courses, minimum course grades, etc. A student should refer to the UK Bulletin and the Undergraduate Advisor in their program of choice to identify the specific requirements.

Biosystems and Agricultural Engineering: Completion of a minimum of 35 semester hours acceptable towards the degree in biosystems and agricultural engineering with a minimum cumulative grade-point average of 2.50. Completion of ENG 104, MA 113, MA 114, MA 213, CHE 105 and PHY 231 with a minimum cumulative GPA of 2.5 in these courses. University repeat options may be utilized as appropriate. Students who do not meet these GPA requirements may request consideration based upon departmental review if both of these GPA values are 2.25 or greater.

Chemical Engineering: Completion of CHE 105, CHE 107, CHE 115, MA 113, MA 114, MA 213, PHY 231, PHY 241, ENG 104 with a minimum cumulative grade-point average of 2.50 in these courses. Completion of CME 199 and CME 200 with grades of C or better. University repeat options may be applied as appropriate.

Civil Engineering: Completion of CE 106, CE 120, CE 211, CHE 105, CHE 107, EM 221, ENG 104, MA 113, MA 114, MA 213, PHY 231, PHY 241 with a minimum cumulative grade point average (GPA) of 2.50 in these core classes and a C or better in each of the listed courses as well as 45 or more semester credit hours. University repeat options may be utilized. Students who do not meet this GPA requirement may request consideration based upon departmental review if this core GPA is 2.25 or greater. Students are limited to two applications for engineering standing.

Computer Engineering: Completion of a minimum of 35 semester hours acceptable towards the degree in engineering with a minimum cumulative grade point average of 2.50. Completion of MA 113, MA 114, MA 213, PHY 231, CHE 105, and ENG 104 with a minimum cumulative GPA of 2.50 in these courses. Completion of EE 211, EE 280, CS 115 and CS 215 with a minimum cumulative GPA of 2.50 in these courses. University repeat options may be utilized as appropriate. In addition, the Electrical and Computer Engineering Department will not permit a third admission into any of these courses. Students who do not meet these GPA requirements may request consideration based upon departmental review if the first two GPAs are 2.25 or greater and they receive a C or better in EE 211, EE 280, CS 115 and CS 215.

Computer Science: In order to graduate and take most of the 300 level and above computer science courses, a student must attain engineering standing. To attain engineering standing a student must complete the following courses with a grade-point average of at least 2.50: ENG 104 Writing: An Accelerated Foundational Course, MA 113 Calculus I, MA 114 Calculus II, CS 100 The Computer Science Profession, ~~CS 100~~, CS 115 Introduction to Computer Programming, CS 215 Introduction to Program Design, Abstraction, and Problem Solving, CS 275 Discrete Mathematics, PHY 231 General University Physics, PHY 241 General University Physics Laboratory

Electrical Engineering: Completion of a minimum of 35 semester hours acceptable towards the degree in engineering with a minimum cumulative grade point average of 2.50. Completion of MA 113, MA 114, MA 213, PHY 231, CHE 105, and ENG 104 with a minimum cumulative GPA of 2.50 in these courses. Completion of EE 211 and EE 280 with passing grades. University repeat options may be utilized as appropriate. In addition, the Electrical and Computer Engineering Department will not permit a third admission into any of these courses. Students who do not meet these GPA requirements may request consideration based upon departmental review if the first two GPAs are 2.25 or greater and they receive a C or better in both EE 211 and EE 280.

Materials Engineering: Completion of CHE 105, CHE 107, CHE 115, MA 113, MA 114, MA 213, PHY 231, PHY 241, ENG 104 with a minimum cumulative grade-point average of 2.50 in these courses. Completion of MSE 201 with a grade of C or better. University repeat options may be applied as appropriate.

Mechanical Engineering: Mechanical Engineering students must have completed at least 35 semester credit hours applicable to the degree program with a minimum cumulative GPA of 2.500. In addition, completion of ME 101, ENG 104 (or ENG 101 and ENG 102), CHE 105, MA 113, MA 114, MA 213, PHY 231 and PHY 241 with a minimum cumulative GPA of 2.5000 or higher is required. Transfer students who have received more than 35 hours transfer credit in the degree program will be considered without the inclusion of ME 101. A student may exercise one of his/her official University of Kentucky Repeat Options to improve this grade point average. Written request for exception to the allowed number of repeats should be submitted to the Director of Undergraduate Studies. In no case will there be an exception made to the minimum acceptable grade point averages listed above.

Mining Engineering: Completion of a minimum of 35 semester hours acceptable towards the degree in mining engineering with a minimum cumulative grade-point average of 2.50. Completion of ENG, 104, MA 113, MA 114, MA 213, CHE 105 and PHY 231 with a minimum cumulative GPA of 2.5 in these courses. University repeat options may be utilized as appropriate. Students who do not meet these GPA requirements may request consideration based upon departmental review if both of these GPA values are 2.25 or greater.

Gen Engr Standing_Aproved with suggestions.txt

From: Ken Calvert [calvert@netlab.uky.edu]
Sent: Friday, April 13, 2007 2:35 PM
To: Brothers, Sheila C
Cc: Pulito, Andrew R; Blank, Christine; Coyne, Mark S; Piascik, Peggy;
raphael@cs.uky.edu; scsege0@uky.edu
Subject: Re: Pending A&AS Items - 2 Engr Items

Hi Sheila,

1. Proposal regarding Engineering standing.

Feedback from the committee: The proposal is unclear regarding the existing requirements, if any, or what exactly is being changed. If the descriptions of the individual programs' requirements for "engineering standing" are part of the proposal, then the description of those requirements should be given in some normal form so that the same information is available about each program. For example, some of the descriptions mention the possibility of an "appeal" or "departmental review" option, while others do not. It is not clear whether such an option exists or not for those that do not mention it. Note that we are not suggesting that each program's *requirements* be the same, only that the same *information about the requirements* be given for each program.

If the descriptions are not part of the proposal per se, then the committee has no objection and the proposal can go on to wherever it needs to go (but the suggestion still applies).

Sorry for the late notice. If you have questions, just ask.

KC

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