

MICHIGAN STATE
UNIVERSITY

December 26, 2007

MEMORANDUM

TO: Dr. Douglas Estry, Associate Provost for Undergraduate Education
and Dean of Undergraduate Studies

FROM: Dr. Linda O. Stanford, Associate Provost for Academic Services

RE: Request to Change the Admission to the College Requirements in the
College of Engineering

For Transmittal to the University Committee on Academic Policy (UCAP)

The request referenced above is being sent to you for action by the University Committee on Academic Policy (UCAP).

UCAP Response Requested:

Please ask the UCAP to consider the request referenced above at its meeting on January 10, 2008. Please mail the related materials referenced under the heading Attachments at the end of this memorandum to the members of the UCAP.

The UCAP alone will consider this request.

If you have any questions about this memorandum or the attached materials, please call me at 5-8420.

Thank you for your help.

Attachments:

1. Request to Change the Admission to the College of Engineering Requirements



**UNIVERSITY
CURRICULUM
and CATALOG**

Michigan State University
176 Administration Building
East Lansing, Michigan
48824-1046

PH: 517/355-8420
FAX: 517/353-1935

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Joy Speas, RO

Thursday, 12/6/2007

Program Name: Engineering - Admission to the College **Degree Name: BS** **Sequence Number: 2****Effective Dates: Fall 2008 - Open** **Status: Interim** **Initial Action: Change****Requested Date:** 11/17/2006 8:00:50 AM**1. Department/School/College:**

16256 College of Engineering

2. Name of Program:

Engineering - Admission to the College

3. Name of Degree:

BS

4. Type of Program:

Major

5. Effective Start Semester:

Fall 2008

6. Target student audience for the program:

Undergraduate engineering students

7. Enrollment:

What is the expected enrollment per year:

700

What is the minimum enrollment acceptable:

400

8. Source of budget for the program:

New Funds

9. Projected Costs as compared to other programs in unit:

Same

10. Staff requirement:

How many additional staff will be required:

3

Who will provide the primary instruction. Describe any external linkages(Industry, government, etc.):

Combination of new and current faculty. Funding for instructional staff being received from Provost

11. Will additional equipment be required:**Approximate cost:**

0

Source of funding:

12. Will additional library materials be required:

Approximate cost:

0

Source of funding:

current resources are sufficient

13. Will additional space be required:

Type:

lab facilities in residence hall

Approximate amount:

30000

14. If the program requirements contain a named concentration, do you wish for the concentration to be noted on the student's transcript?:

No

15. Detailed Description:

This reflects the initiation of the Cornerstone Engineering program, a required first-year design experience that will be housed in a residence hall near the Engineering Building, as noted in President Simon's announcement of 10/15/07. Program will provide a team-based, hands-on design experience to incoming freshmen, as the foundation effort of a number of initiatives to better prepare them for the rapidly changing engineering profession in the US in light of globalization and outsourcing. Program will also help MSU attract top students in light of first-year programs at other schools.

Program changes to College Admission Requirements, in highlighted bold italic; deletions in strikethrough.

Admission to the College

Admission to the College of Engineering and a specific major provides access to enroll in certain courses required for the major. Enrollments in the College of Engineering are limited.

Admission is based on the cumulative grade-point average of all courses taken and a grade-point average calculated on mathematics, physical and biological sciences, and engineering courses.

For additional information, students should contact the Office of the Associate Dean for Undergraduate Studies, College of Engineering.

Minimum criteria for admission to the College are:

1. Completion of at least 12 credits of MSU courses, including at least 6 credits in mathematics, physical and biological sciences, and engineering for freshmen and sophomores, and at least 10 credits in mathematics, physical and biological sciences, and engineering for juniors and seniors.
2. Completion of Mathematics 132 and 133.
3. A minimum grade-point average of 2.00 in all mathematics Courses.
4. Completion of Chemistry 141 or 151 or approved substitution or waiver ***(not required for Computer Science majors)***
5. Completion of Physics 183.
6. Completion of ***Engineering 102 or Computer Science and Engineering 131 or 231*** or approved substitution or waiver.
7. ***Completion of Engineering 100.***

Freshmen and sophomores who have declared specific engineering majors (excluding Engineering No-Preference) are automatically reviewed at the end of every semester, and are either

admitted or informed of their progress. Others may apply for admission during each semester, and applications will be reviewed after the end of each semester. Students must be admitted to a degree-granting college at the time they have completed 56 credits

16. Type(s) of change(s):

College Admission Requirements

17. Students who will be affected by the proposed changes:

Engineering undergraduate students after FS08

18. Will the proposed change(s) have a negative impact on students? If so, which ones?:

no

Describe impact and explain what accommodations will be made:

19. Reason(s) for change(s):

Initiation of the Cornerstone Engineering program / better prepare students.

DEPARTMENT LEVEL APPROVAL STATUS

Approved by: College of Engineering
10/22/2007 1:05:44 PM by Thomas Wolff for Thomas F. Wolff, Associate Dean

COLLEGE LEVEL APPROVAL STATUS

Approved by: College of Engineering
10/22/2007 1:08:28 PM by Thomas Wolff for Thomas F. Wolff, Associate Dean

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2. Completion of Mathematics 132 and 133.
3. A minimum grade-point average of 2.00 in all mathematics courses.
4. Completion of Chemistry 141 or 151 or approved substitution or waiver.
5. Completion of Physics 183.
6. Completion of ~~Computer Science and Engineering 431 or 231~~ or approved substitution or waiver.

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Computer Science majors are not required to fulfill this requirement.

Engineering 102 or

7. Completion of Engineering 100.