

to Registrar 5/6/03

Engineering Faculty Document No. 26-01

January 16, 2003

**TO:** Engineering Faculty  
**FROM:** Faculty of the School of Nuclear Engineering  
**DATE:** January 16, 2003  
**SUBJECT:** Change in Graduation Requirements

The faculty of the School of Nuclear Engineering has approved the curriculum changes that appear on page two of this document pertaining to the graduation requirements for the BSNE degree. This action is now submitted to the Engineering Faculty with a recommendation for approval.

The minimum number of credit hours required for the BSNE degree have increased from 127 to 131. The changes are as follows:

- Freshman Engineering courses that apply to the BSNE degree total 31 credit hours; previously the total was 32 credit hours (-1 credit).
- ME 274 previously was offered for 2 credits; effective Fall 2002 it will only be offered for 3 credits (+1 credit).
- MSE 210L for 1 credit no longer exists and has been replaced with MSE 235 for 3 credits (+2 credits).
- NUCL 355 and NUCL 356 were previously offered for 1 credit each; effective Fall 2003 it will only be offered for 3 credits. This change reflects the added emphasis on laboratory courses (+1 credit).
- NUCL 449 (1 credit) has been added to the curriculum. This course provides preparation for the capstone course NUCL 450. Students are required to write a proposal for their design project (+1 credit).

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Lefteri H. Tsoukalas, Ph.D.  
Professor and Head  
School of Nuclear Engineering

APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE COMMITTEE ON  
FACULTY RELATIONS

CFR Minutes #972

Date 4/29/03

Chairman CFR Michael D. Joltowski

**Previous Requirements - Engineering Faculty  
Document 10-85**

**Credit Hours Required for Graduation: 127**

**CATEGORY**

**CREDIT  
HOURS**  
32

**Freshman Engineering:**

Requirements in effect November 5, 1985 (date of  
Engineering Faculty Document 10-85)

**Mathematics:**

MA 261(4), MA 262(4), Elective(3)

11

**Physics:**

PHYS 241(3)

3

**General Education:**

Humanities and Social Science elective courses selected  
with NE faculty guidance in accordance with the general  
education requirements of the Schools of Engineering

18

**Engineering Core:**

CE 273(3), EE 201(3), ME 200(3), ME 270(3), ME  
274(2), MSE 210L(1), NUCL 200(3), NUCL 205(2), NUCL  
298(0), NUCL 300(3), NUCL 305(2), NUCL 310(3), NUCL  
320(3), NUCL 350(3), NUCL 351(3), NUCL 355(2), NUCL  
398(0), NUCL 402(3), NUCL 450(3), NUCL 498(0) and  
[NUCL 510(3) or NUCL 520(3)]

48

**Technical Electives:**

Selections can be made from an extensive list of physical  
sciences, mathematics, and engineering courses as  
approved by an academic advisor. Upon satisfactory  
completion of four semesters of advanced ROTC, six of  
these credits may be substituted for technical electives.

15

**TOTAL**

**127**

**Proposed Requirements - Engineering Faculty  
Document 26-01**

**Credit Hours Required for Graduation: 131**

**CATEGORY**

**CREDIT HOURS**

**Freshman Engineering:**

CHM 115(4), CHM 116(4), COM 114(3), CS 152(2),  
ENGL 101(3), ENGR 100(1), ENGR 106(2), MA 165(4),  
MA 166(4), PHYS 152(3)

31

**Mathematics:**

MA 261(4), 262(4) [265-266 can be selected in place of  
262], Elective(3)

11

**Physics:**

PHYS 241(3)

3

**General Education:**

Humanities and Social Science elective courses selected  
with NE faculty guidance in accordance with the general  
education requirements of the Schools of Engineering

18

**Engineering Core:**

CE 273(3), EE 201(3), ME 200(3), ME 270(3), ME 274(3),  
MSE 235(3), NUCL 200(3), NUCL 205(2), NUCL 298(0),  
NUCL 300(3), NUCL 305(2), NUCL 310(3), NUCL 320(3),  
NUCL 350(3), NUCL 351(3), NUCL 355(3), NUCL 398(0),  
NUCL 402(3), NUCL 449(1), NUCL 450(3), NUCL 498(0),  
and [NUCL 510(3) or NUCL 520(3)]

53

**Technical Electives:**

Selections can be made from an extensive list of physical  
sciences, mathematics, and engineering courses as  
approved by an academic advisor. Upon satisfactory  
completion of four semesters of advanced ROTC, six of  
these credits may be substituted for technical electives.

15

**TOTAL**

**131**