



UNIVERSITY OF FLORIDA


College of Engineering
Associate Dean for Academic Affairs

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May 23, 2007

MEMORANDUM

TO: Sheila K. Dickison, Associate Provost

FROM: Cammy R. Abernathy 
Associate Dean for Academic Affairs

RE: BS Degree in Nuclear Engineering increase credits from 126 to 129

Please find the attached request to add EGM 2511 – Engineering Statics to the BSNE Curriculum. This is a result of the ABET Self-Assessment Study and is an addition that was committed to under the recent ABET visit. The BSNE degree is increased from 126 to 129 credits.

CRA:jn

Attachments

Increase from 126 credits to 129 credits for BS Degree in Nuclear Engineering

The increase from 126 credits to 129 credits for the BS Degree in Nuclear Engineering is due to the addition of EGM 2511, Engineering Statics, as a required course.

A critical component of ABET accreditation is continuous program assessment and evaluation with input from constituents. Over the past two years, input from the NRE External Advisory Board (EAB), the NRE faculty and NRE students has identified Engineering Statics as a course that needed to be added into the curriculum. The EAB, faculty and students identified a lack of adequate preparation for the rigorous quantitative problem solving skills necessary for upper division engineering classes as a significant problem. NE students will take EGM 2511 in the Spring, Sophomore year to help provide this needed preparation for upper division engineering classes. Additionally, the EGM 2511 provides material needed for the EIT (Engineer-In-Training) and PE (Principles and Practice for Professional Nuclear Engineering Licensure) Exams.

The College of Engineering underwent an ABET accreditation visit this October 22-24. Prior to the visit, the ABET Program Evaluator for Nuclear Engineering identified the lack of a mechanics (statics or dynamics) in the curriculum as an item of concern. This was removed as an item of concern when he learned that NRE had already planned to add EGM 2511 to the curriculum.

The increased credit requirement for the BSNE is not out of line with the total credit requirement in other Engineering programs at UF. For example, the Aerospace and Mechanical Engineering Programs require 128 credits, Agricultural Engineering is at 128 credits, Chemical Engineering is at 134 credits, Civil Engineering requires 131 credits and Environmental Engineering requires 128 credits.

**Curriculum for the BSNE degree
Nuclear & Radiological Engineering Department
University of Florida – Fall 2007**

Semester	1	2	3	4	5	6	Credit
Year 1							
Fall	Calculus 1 MAC 2311 (4)	General Education Composition (3)	General Education Humanities (3)	General Chemistry CHM 2045 & 2045L (4)	Fundamentals of NRE (Seminar) ENU 4934 (1)		15
Spring	Calculus 2 MAC 2312 (4)	Technical Writing ENC 2210 (3)	General Education Social Science (3)	Phy. Calc. 1 PHY 2048 & 2048L (4)			14
Year 2							
Fall	Calculus 3 MAC 2313 (4)	General Education Humanities (3)	General Education Social Science (3)	Phy. Calc. 2 PHY 2049 & 2049L (4)			14
Spring	Differential Eqtns. MAP 2302 (3)	General Education Humanities (3)	Computer Programming CGS 2425 (2)	Biological Sciences (3)	Engineering Statics EGM 2511 (3)		14
Year 3							
Fall	Adv. Engr. Analysis ENU 4001 (4)	Thermodynamics 1 EML 3100 (3)	Professional Ethics EGN 4034 (1)	Rad. Interaction 1 ENU 4605 (3)	Electrical Engr. EEL 3003 (3)	Electrical Lab EEL 3303L (1)	15
Spring	Reactor Systems ENU 4144 (3)	Reactor Anal. & Computat. 1 -Statics ENU 4103 (3)	Heat Transfer 1 EML 4140 (3)	Rad. Interaction 2 ENU 4606 (3)	Reactor Thermal Hydraulics 1 ENU 4133 (3)		15
Summer	Engineering Statistics STA 3032 (3)	Materials EMA 3010 (3)					6
Year 4							
Fall	Radiation Shielding ENU 4630 (3)	Reactor Anal. & Computat. 2 -Dynamics ENU 4104 (3)	Reactor Thermal Hydraulics 2 ENU 4134 (3)	Rad. Detection ENU 4612 C (4)	Elements of NRE Design ENU 4191 (1)		14
Spring	Risk Analysis ENU 4145 (3)	Rad. Protection ENU 4641 (2)	NRE Design ENU 4192 (3)	NRE Lab ENU 4505L (3)	Tech. Elective (3)		14
Summer	Tech. Elective (3)	Tech. Elective (3)	Tech. Elective (2)				8
Total number of credits for BSNE degree = 129							