UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: Dr. Darrin Pochan, Dept. Chair phone number 831-3569

Department: Materials Science and Engineering email address pochan@udel.edu

Action: Change of the required courses for our Master's Non-Thesis degree

Example: add major/minor/concentration, delete major/minor/concentration, revise major/minor/concentration, academic unit name change, request for permanent status, policy change, etc.

Effective term 15F (use format 04F, 05W)

Current degree MMSE - Non-Thesis

(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

Proposed change leads to the degree of: MMSE - Non-Thesis

(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

Proposed name: N/A Proposed new name for revised or new major/minor/concentration/academic unit (if applicable)

Revising or Deleting:

Undergraduate major/Concentration: N/A (Example: Applied Music – Instrumental degree BMAS)

Undergraduate minor: N/A (Example: African Studies, Business Administration, English, Leadership, etc.)

Graduate Program Policy statement change: Attached with changes marked in red (Must attach your Graduate Program Policy Statement)

Graduate Program of Study: Materials Science and Engineering MMSE (Example: Animal Science; MS Animal Science; PHD Economics; MA Economics; PHD)

Graduate minor/concentration: N/A

Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.
List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations?
(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter “None”)

None

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: http://www.ugs.udel.edu/gened/

N/A

Identify other units affected by the proposed changes:
(Attach permission from the affected units. If no other unit is affected, enter “None”)

None

Describe the rationale for the proposed program change(s):
(Explain your reasons for creating, revising, or deleting the curriculum or program.)

The change in required courses for the MSEG Master’s Non-Thesis degree succeeds in several goals. First, courses are no longer required that have become superfluous to the average, modern MS Non-Thesis student. Second, MSEG Master’s Non-Thesis students will now have more flexibility to take additional elective courses.

Program Requirements:
(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and include a side-by-side comparison of the credit distribution before and after the proposed change.)

The Master’s Non-Thesis degree remains the same which requires a total of 30 credits (A detail of the required courses are listed in the attached Department’s Policy Statement).

Routing and Authorization:
(Please do not remove supporting documentation.)

Department Chairperson 11/24/2014
Dean of College 12/4/2014
Chairperson, College Curriculum Committee 12/4/2014
Chairperson, Senate Com. on UG or GR Studies
Chairperson, Senate Coordinating Com.
Secretary, Faculty Senate
Date
Date
Date
Date
Date
Date
Date
Program Code
Date
Vice Provost for Academic Affairs & International Programs
Date
Provost
Date
Board of Trustee Notification
Date
New MSEG without thesis credit/course requirements

Current

- Required for All
  - MSEG 608 – Structure and Properties I
  - MSEG 609 – Structure and Properties II
  - MSEG 803 – Equilibrium in Materials Systems
  - MSEG 804 – Kinetics in Materials Systems

- Required for Hard Materials
  - MSEG 640 – Applied Quantum Mechanics I
  - MSEG 841 – Solid State Materials I
  - MSEG 842 – Solid State Materials II

- Required for Soft Materials
  - MSEG 832 – Principle of Polymer Synthesis
  - MSEG 833 – Polymer Synthesis Lab
  - MSEG 835 – Polymer Physics

- Required for Composites
  - MSEG 832 – Principle of Polymer Synthesis
  - MSEG 817 – Composite Materials

- Technical Electives
  - 3-4 elective courses required

- Total: 30 units of coursework

New

- Required for All
  - MSEG 608 – Structure and Properties I
  - MSEG 609 – Structure and Properties II
  - MSEG 803 – Equilibrium in Materials Systems
  - MSEG 804 – Kinetics in Materials Systems

- Choose 2 from the following 5 (with advisor)
  Note: Any beyond 2 count as technical electives
  - MSEG 640 – Applied Quantum Mechanics I
  - MSEG 841 – Solid State Materials I
  - MSEG 832 – Principle of Polymer Synthesis
  - MSEG 835 – Polymer Physics
  - MSEG 817 – Composite Materials

- Technical electives
  - Choose 4
  - At least one must be 800 level

- Total: 30 units of coursework
Master's Non-Thesis Requirements Comparison With Other Engineering Departments

We are not changing the credit requirements for our Master's Non-Thesis degree, which is currently 30 credits, but want you to know that we are aligned with the other Engineering Departments on this degree program.

10 required courses: ELEG, MEEG, MSEG, CHEG, and CIEG

Currently BMEG does not offer a Master's degree and I could not find documentation on the CISC Dept. offering a Master's Non-Thesis degree.