Department Name  
Engineering Science Degree Program

1. CHECK PROPOSED CHANGES.
* □ Change department/program name from ____________________ to ____________________
* □ New degree or program in ____________________
* □ Change name of degree from ____________________ to ____________________
* □ Drop degree or program in ____________________
□ New Major in ____________________
□ Change name of Major from ____________________ to ____________________
☑ Revise Major requirements in PhD in Engineering Science
□ Drop Major in ____________________
□ Revise certification requirements for the Major in ____________________
□ New Option in ____________________
□ Revise requirements for the Option in ____________________
□ Drop Option in ____________________
□ New Minor in ____________________
□ Revise Minor requirements in ____________________
□ Drop Minor in ____________________
□ New Undergraduate Certificate in ____________________
□ Revise Undergraduate Certificate requirements in ____________________
□ Drop Undergraduate Certificate in ____________________
□ Other ____________________

Effective year: Fall 2011 (effective date must be a fall semester and cannot be retroactive)

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2. GIVE REASONS FOR EACH REQUEST MARKED ABOVE. (Attach additional paper if necessary; see reverse side.)  See attachment.

4. SIGN AND DATE APPROVALS.

Chair Signature/date  9/23/2011  Dean Signature/date  9/24/2011  General Education Com/date

Catalog Subcom/date  Academic Affairs Com/date  Graduate Studies Com/date  Senate/Date
We propose the reduction of required graded, graduate level credits from 34 to 15, to match the current minimum recently approved by the graduate school and Faculty Senate. These courses must be graduate level courses in the areas of Engineering or Sciences, being offered by the College of Engineering and Architecture, College of Sciences, or the College of Agriculture, Natural and Human Resources, and be approved by the student’s advisor and the Engineering Science Graduate Committee Chair.

Because it is an interdisciplinary program, the Engineering Science program provides maximum program flexibility. This allows faculty to tailor a program that meets the specific needs of both the student and the multiple faculty members’ research. Each student seeking this interdisciplinary degree needs to plan a carefully crafted program of graduate level Engineering and Science courses to provide the knowledge needed for the specific research that is planned. Depending on the background of each student, more courses in one area or another may be needed, or specific training on an instrument or a specific discipline. A student planning research in Bioengineering/Environmental Engineering will have a program that is very different from a student planning on Engineering Education research.

This program allows students the ability to earn a degree in a combination of areas, where degree programs cannot exist due to the nature of the crossing of disciplines. Since having a degree program for each student is impractical, this program allows the flexibility to model each program for each student. Implementing the requirement for fewer credits provides students more flexibility, letting each of them devote more time to research and writing a dissertation, and reducing the time to degree, thus allowing us to graduate a larger number of PhD students.

No specific courses are listed as required due to the differing nature of each degree sought, and each program is set individually by the student’s advisor and approved by the Engineering Science Graduate Committee Chair.

All other requirements listed in chapter 8 section B of the Graduate School Policies and Procedures Manual must still be met.