CWRU Action Form for Majors/Minors/Programs/Sequences/Degrees Docket # 10-65E-847 (instructions on back)
College/School: _Case School of Engineering Department: _Mechanical and Aerospace Engineering
PROPOSED: major X minor program sequence degree
TITLE:Mechanical Design and Manufacturing
EFFECTIVE:Spring (semester)2011 (year)
DESCRIPTION: This minor will concentrate on design and manufacturing of mechanical elements. Initial impetus for this program came from the Biomedical Engineering Department, where it was believed that such a minor would enhance the opportunities for certain undergraduate students who are looking to enter the job market after graduation. However, the topics covered in this minor encompass a wide area, and may appeal to students in other disciplines such as Materials Science or Macromolecular Science and Engineering. EECS students interested in robotics may also be attracted to this minor.
The minor requires 5 courses
Required Courses EMAE172 Mechanical Manufacturing EMAE370 Design of Mechanical Elements
Students will then choose, in consultation with their advisors, three courses from:  EMAE372 Relation of Materials to Design  EMAE290 Computer Aided Manufacturing  EMAE390 Advanced Manufacturing  EMAE397 Independent Laboratory Research - can be used as an elective in this minor sequence under the following conditions:  (1) The student writes a one-page proposal about the project explaining how it involves mechanical design and/or manufacturing at an advanced undergraduate level  (2) The proposal is approved by the student's major advisor, and the advisor for the minor in Mechanical and Aerospace Engineering
Is this major/minor/program/sequence/degree: X_ new modification replacement
If modification or replacement please elaborate:
Does this change in major/minor/program/sequence/degree involve other departments? YesYesXNo
If yes, which departments?NA
Contact person/committee: _Malcolm Cooke, interim advisor for the minor
SIGNATURES:  Department Curriculum Chair(s)/Program Directors:  Department Chair:  College/School Curriculum Committee Chair:  College/School Dean(s):  UUF Curriculum Committee Chair:  DATE  12/15/2000  12/15/2000  2/24/11  3/1/11
File copy sent to:RegistrarOffice of Undergraduate Studies/Graduate Studies Other: