Program Change Proposal Form

Faculty Member Preparing: Clarence W. Lienhard

1. Date: 11/23/2013  
Department: Mathematics and Computer Information Science

2. Rationale for change (include relevant assessment data to support this proposal):

   The Bachelor of Science in Mathematics with a Pure Mathematics Concentration must prepare students for varied career paths. So to provide more flexibility in a student’s program the program will now require students to take one course from MA 3345, MA 3361, MA 3362, and MA 3381 instead of one course from MA 3345 and MA 3381 and one course from MA 3361 and MA 3362. This further allows the upper division electives to be increased from 15 to 18 credits.

3. Old Degree and Program Title (attach an old ER): BS Mathematics Pure Mathematics Concentration

   New Degree and Program Title (attach a new ER): BS Mathematics Pure Mathematics Concentration

   List all changes:

   a. Require students to take one course from:
      i. MA 3345 Real Analysis I
      ii. MA 3361 Modern Algebra - Groups
      iii. MA 3362 Modern Algebra - Rings
      iv. MA 3381 Topology

   b. Require 18 credits of Upper Division (3000 or 4000 level) courses from the MA prefix

4. Program Description for Catalog (if changed):

5. Program Objectives (if changed):

6. Program Learning Outcomes (if changed):

7. Impact on other programs (if any): None

8. New library resources needed? Yes  X  No  If yes:

   Signature of appropriate librarian indicating needs can be met:

8. New Technology Resources Needed? Yes  X  No  If yes:

   Signature of Director of Information Technology indicating needs can be met:

9. New Equipment resources needed? Yes  X  No  If yes:

   Describe Equipment: 
   Source of funding: 

10. Requested Date to be Offered: Fall 2014
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<th>Recommendation Dates &amp; Signatures:</th>
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<td>Department:</td>
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<td>TEC (if any education program):</td>
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<td>Graduate Council (If necessary):</td>
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<td>Academic Affairs Committee:</td>
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MU Form A43C – Effective 4/1/01
Old Evaluation Record

Pure Mathematics Concentration Courses
MA 2231 - CALCULUS I
MA 2232 - CALCULUS II
MA 2233 - CALCULUS III
MA 3260 - DISCRETE STRUCTURES
MA 3280 - LINEAR ALGEBRA AND MATRIX THEORY
MA 3314 - APPLIED PROBABILITY AND STATISTICS

Take one course from the following:
MA 3345 - REAL ANALYSIS I
MA 3381 - TOPOLOGY

Take one course from the following:
MA 3361 - MODERN ALGEBRA - GROUPS
MA 3362 - MODERN ALGEBRA - RINGS

Mathematics Electives

Take 15 credits of Upper Division (3000 or 4000 level) courses from the MA prefix

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