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. A checklist is available to assist in the preparation of a proposal. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: Thomas W. Ilvento  phone number 302-831-6773
Department: Food and Resource Economics (FREC)  email address ilvento@udel.edu
Date: 11-30-11
Action: Dissolve the Operations Research M.S. 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 12F
(use format 04F, 05W)
Current degree AREC M.S.
(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)
Proposed change leads to the degree of: Decision Analysis Concentration, AREC M.S.
(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)
Proposed name: Decision Analysis Concentration for the AREC M.S. degree
Proposed new name for revised or new major / minor / concentration / academic unit
(if applicable)
Revising or Deleting:

Undergraduate major / Concentration:
(Example: Applied Music – Instrumental degree BMAS)
Undergraduate minor:
(Example: African Studies, Business Administration, English, Leadership, etc.)
Graduate Program Policy statement change: remove current statement
(Must attach your Graduate Program Policy Statement)
Graduate Program of Study Agricultural and Resource Economics M.S.
(Example: Animal Science: MS  Animal Science: PHD  Economics: MA Economics: PHD)
Graduate minor / concentration: Decision Analysis

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. The concentration uses existing courses.

Supply support letter from the Library, Dean, and/or Department Chair if needed (all new majors/minors will need a support letter from the appropriate administrator.)

The matter was voted on by the department and accepted unanimously. This will involve making a new concentration for Operations Research in the AREC MS degree and the STAT Ms degree, both programs in FREC (both proposed separately).

Supply a resolution for all new majors/programs; name changes of colleges, departments, degrees; transfer of departments from one college to another; creation of new departments; requests for permanent status. See example of resolutions.

WHEREAS, The M.S. and Ph.D. degrees in Operation Research have been officially disestablished in the Department of Food and Resource Economics (FREC) in the College of Agriculture and Natural Resources, and

WHEREAS, FREC expects to see continued interest in operations research skills in the market, and

WHEREAS, the FREC Graduate Committee has recommended folding the Operation Resource courses into a concentration into the AREC or STAT MS degrees., and

RESOLVED, that the Faculty Senate recommends approval of the Decision Analysis Concentration for the AREC M.S. degree beginning Fall 2012.

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”)

We do not think it would affect any other program. All ORES courses will be continued.

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

With RBB the department no longer gets additional support and graduate student funding for the ORES M.S. or Ph.D. degrees. The number of faculty supporting this degree is down to less than 3 FTEs and the number of applicants has dwindled. In a separate approval form we recommended ending these two graduate programs.

We feel the best way to continue providing the courses and expertise for interested students is to fold the program into a concentration in the Agricultural and Resource Economics MS or the Statistics MS degrees. In this approach interested students will continue to take the same ORES courses while also taking foundation economic courses. We believe that students with this concentration in AREC will be uniquely qualified for analytical work in a variety of economic applications, such as natural resource utilization, marketing, risk assessment, and general data analysis.

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.) See example of side by side.

<table>
<thead>
<tr>
<th>AREC Requirements without concentration</th>
<th>Recommended Requirements for Decision Analysis for AREC</th>
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</thead>
<tbody>
<tr>
<td>30 Credits</td>
<td>30 credits</td>
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<table>
<thead>
<tr>
<th>AREC Required Courses</th>
<th>12 credits</th>
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<tbody>
<tr>
<td>1. ECON 801 Microeconomics</td>
<td></td>
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<tr>
<td>2. ECON 802 Macroeconomics</td>
<td></td>
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<tr>
<td>3. FREC 810 International Trade</td>
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<td>4. FREC 834 Natural Resources</td>
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<tr>
<th>AREC Core Required Courses</th>
<th>12 credits</th>
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<tbody>
<tr>
<td>1. ECON 801 Microeconomics</td>
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<td>3. FREC 810 International Trade</td>
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<td>4. FREC 807 Math Programming with Economic Applications</td>
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<tr>
<th>AREC Quantitative Requirement</th>
<th>12 Credits</th>
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<tbody>
<tr>
<td>1. FREC/STAT 608 Research Methods I</td>
<td></td>
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<tr>
<td>2. ECON 803 Applied Econometrics I</td>
<td></td>
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<tr>
<td>3. ECON 804 Applied Econometrics II</td>
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<td>4. FREC 615 Advanced Prices and Statistics</td>
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<td>5. STAT 675 Logistic Regression</td>
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<td>6. FREC 682 Spatial Analysis of Natural Resources</td>
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<thead>
<tr>
<th>Decision Analysis Concentration Quantitative Requirement</th>
<th>12 credits</th>
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<tbody>
<tr>
<td>1. FREC 615 or ECON 803</td>
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<tr>
<td>2. STAT 601 or STAT 670</td>
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<tr>
<td>3. ORES 602 Survey Operations Research II</td>
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<td>4. ORES 603 Simulation Modeling and Analysis</td>
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<tr>
<th>Thesis Credits, FREC 869</th>
<th>6 Credits</th>
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<tr>
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<td>One additional course and 3 credits of Directed Research FREC 868</td>
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<td>or</td>
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<tr>
<td>One additional course and 3 credits of Internship ORES 664</td>
<td>6 Credits</td>
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ROUTING AND AUTHORIZATION:  (Please do not remove supporting documentation.)

Department Chairperson ___________________________ Date __________________

Dean of College ___________________________ Date __________________

Chairperson, College Curriculum Committee ___________________________ Date __________________

Chairperson, Senate Com. on UG or GR Studies ___________________________ Date __________________

Chairperson, Senate Coordinating Com. ___________________________ Date __________________

Secretary, Faculty Senate ___________________________ Date __________________

Date of Senate Resolution ___________________________ Date to be Effective __________________

Registrar ___________________________ Program Code ___________________________ Date __________________

Vice Provost for Academic Affairs & International Programs ___________________________ Date __________________

Provost ___________________________ Date __________________

Board of Trustee Notification ___________________________ Date __________________

Revised 02/09/2009 /khs