January 7, 2015

To: Sarah Mangelsdorf, Provost and Vice Chancellor for Academic Affairs
From: Ian Coxhead, Professor and Chair
Re: Resource and Energy Demand Analysis curriculum report

I am pleased to report that the six new Master's degree courses proposed in conjunction with the named option in Resource and Energy Demand Analysis (REDA) have received campus-level approval. A table showing the full REDA curriculum is attached, with the new courses appearing in unshaded rows.

We are currently receiving many inquiries from prospective students and employers, as well as applications for the inaugural class. Planning is underway for developing the online courses that will comprise a capstone certificate for working professionals in association with the REDA master's option. We are grateful for the support of the Division of Continuing Studies for help with this, as well as for their provision of a program development budget.

We plan to submit a proposal for the capstone certificate soon, in hope of having approvals in place for fall 2016. Courses for the 10-credit capstone include 770, 636 and 772 on the attached table.

One question has arisen as we have reviewed the agenda from the program implementation meeting in early December (attached). The first term valid is listed as 1162, or fall 2015. In fact, the online math and stats review course (770) will begin in the late summer JDD session that starts July 27. Please let us know what we need to do to have this adjusted to summer.

On behalf of all my colleagues, I would like again to thank all who have helped us bring this exciting new program to the University of Wisconsin. We are looking forward to welcoming our first entering class.

Copies: Wendy Crone, Interim Dean, Graduate School
Katy Duren, Division of Continuing Studies
Kelly Haslam, Assistant Dean, Graduate School
Jocelyn Milner, Academic Planning and Institutional Research
Kathryn VandenBosch, Dean, College of Agricultural and Life Sciences
<table>
<thead>
<tr>
<th>Course name and number</th>
<th>Pre-reqs</th>
<th>Description</th>
<th>Cr</th>
<th>Instructor</th>
<th>Other remarks</th>
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<tbody>
<tr>
<td><strong>Summer JDD session</strong></td>
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<tr>
<td>AAE 770 Introduction to Quantitative Methods in Resource and Energy Economics</td>
<td>Enrollment in REDA or Special Student status &amp; consent of instructor</td>
<td>The fundamental mathematics and statistics necessary for the study of quantitative methods in resource and energy demand. Topics include the mathematics of optimization and its role in basic welfare theory and consumer demand; linear and matrix algebra and their application in both modeling consumer behavior and the statistical analysis of models; and the fundamentals of statistical analysis relevant to econometric analysis of resource and energy demand, including probability theory, sampling distributions, and statistical inference.</td>
<td>3</td>
<td>Gould</td>
<td>Online; summer 1 TA</td>
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<td><strong>Fall</strong></td>
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<td>AAE 636 Applied Econometric Analysis 1</td>
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<td>First Master's-level course in econometrics, including introductory topics in program evaluation.</td>
<td>3</td>
<td>Phaneuf</td>
<td>1 TA</td>
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<tr>
<td>AAE 771 Theory to Practice: Fundamentals of Resource and Energy Demand Analysis</td>
<td>Enrollment in REDA</td>
<td>Applying economic theory to the practice of resource and energy demand analysis. Topics include consumer demand theory and the proper modeling of demand systems, theoretical underpinnings of behavioral economics, welfare theory, cost benefit analysis and cost-effectiveness analysis, and technology adoption and diffusion.</td>
<td>4</td>
<td>Alix-Garcia Gould Phaneuf Foltz</td>
<td>1 TA</td>
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<td>Pub Affrs 809 Introduction to Energy Policy and Analysis</td>
<td></td>
<td>Interdisciplinary seminar for the Energy Analysis and Policy Curriculum. Strategy and policy problems in energy policy, both national and international.</td>
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<td>Nemet</td>
<td>1 TA</td>
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<td><strong>Spring</strong></td>
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<td>AAE 671 Energy Economics or AAE 531 Natural Resource Economics</td>
<td>671 Survey course on the methods, application, and limitations of traditional economic approaches to the study of energy problems.</td>
<td>671: Economic concepts and tools relating to management and use of natural resources.</td>
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<td>Du Parker</td>
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<tr>
<td>AAE 772 Applied Econometrics of Resource and Energy Demand</td>
<td>AAE 636, enrollment in REDA or Special Student status &amp; consent of instructor</td>
<td>The estimation of the economic models of resource and energy demand, including evaluation of energy and resource programs, estimating demand systems in the study of dynamic pricing models, estimating discrete choice models, Forecasting resource and energy demand from econometric models, and topics in the application of big-data analytics in resource and energy demand analysis.</td>
<td>4</td>
<td>Provencher</td>
<td>1 TA</td>
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<td>AAE 773 Seminar in Resource and Energy Demand</td>
<td>AAE 771, Enrollment in REDA</td>
<td>Current issues in resource and demand analysis, with weekly presentations by academic researchers and industry professionals, and an emphasis on identifying the correct conceptual approach and methods to address an issue.</td>
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<td>AAE 643 Foundations of Environmental &amp; Natural Resource Economics</td>
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<td>Focus areas include foundational models of human/environment interaction, definition and evaluation of the suite of environmental policy instruments, measuring environmental costs and benefits, and examining natural resource use.</td>
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<td>Phaneuf</td>
<td>1 TA</td>
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<td>AAE 774 Practicum in Resource and Energy Demand Analysis I</td>
<td>AAE 771, Enrollment in REDA</td>
<td>The first of a 2-course capstone in Resource and Energy Demand Analysis, in which students synthesize their training in a simulated &quot;real world&quot; analysis. The course is designed to reflect the full range of professional responsibilities of a resource/energy demand analyst, from data retrieval/cleaning to analysis to reporting.</td>
<td>1</td>
<td>Provencher</td>
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<td><strong>Summer ACC session</strong></td>
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<td>AAE 776 Practicum in Resource and Energy Demand Analysis II</td>
<td>AAE 771, Enrollment in REDA</td>
<td>The second of a 2-courses capstone in Resource and Energy Demand Analysis, in which students synthesize their training in a simulated &quot;real world&quot; analysis. The course is designed to reflect the full range of professional responsibilities of a resource/energy demand analyst, from data retrieval/cleaning to analysis to reporting.</td>
<td>3</td>
<td>Provencher</td>
<td>1 TA</td>
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Program Revenue Implementation Meeting  
2:00-4:00pm, Tuesday December 2, 2014  
Room 10302, Tenth floor, 333 East Campus Mall

Draft Agenda

Attendees: Madison Budget Office - Tim Norris, Anne Bourque; APIR - Jocelyn Milner;  
Graduate School – Kelly Haslam; Continuing Studies – Sarah Barber, Katy Duren; Registrar’s  
Office - Suzanne Broadberrry, Craig Stevens; Bursar’s Office - Cathie Easter, Tip Vandal, Linda  
Ande; Financial Aid - John Dreger

CALS: Ian Coxhead, Bill Provencher, Angie Seitler, Phil Gonsiska, Barbara Forrest

Engineering: Frank Pfefferkorn, Marty Gustafson

2:00  
Introductions

2:00-2:20  
REDA Program Revenue Implementation

Academic Sub-plan:  
Sub-plan Code: REDA  
CIP Code: 01.0103  
Sub-plan Description: Resource & Energy Demand Analy  
Academic Plan: MA 021ALS  
Degree Offered: 378  
Sub-Plan Degree Objective: Master of Arts-Agricultural and Applied Economics  
Effective Date 8/25/14  
First Term Valid: 1162

2:20-2:40  
Proposed M. Engr in Manufacturing Systems (Online)  
-Provide Full proposal  
-Include Market Research, Populations, Enrollment Trends

2:40-3:00  
Online Tuition Proposal (Katy)

3:00-3:20  
PR program switching/concurrent enrollment discussion (Jocelyn)

3:20-3:40  
PR Revenue and Enrollment Reports (Anne B & Tip)

3:40-3:50  
Item Type Form revisions (Linda & Tip)

3:50-4:00  
Other
February 3, 2015

To: Judith Bauman, Admissions and Academic Services, Graduate School
   Kelly Haslam, Academic Planning and Assessment, Graduate School
   Jennifer Martin, Academic Planning and Assessment, Graduate School

From: Dan Phaneuf, Director of Graduate Studies

Re: Request for Approval of Changes for REDA

In Fall 2014, the named option Resource and Energy Demand Analysis (REDA) in the Agricultural and Applied Economics M.A. was approved by campus governance with an implementation date of Fall 2015. Due to scheduling requirements for a course that overlaps summer dates, AAE faculty recently requested that the REDA implementation date change to Summer 2015. The Provost’s Office and the Registrar’s Office have adjusted the implementation date from Fall 2015 to Summer 2015.

This change is occurring in the midst of an admissions cycle and we would like the standard M.A. and the M.A. REDA named option treated differently. We understand that this will require special handling in the admissions systems and processing. Thus, through consultation with Graduate School staff, we are requesting the changes outlined below.

- We request that the standard AAE M.A. degree, which has a fall admit term, be made non-admitting effective immediately, for the 2015-16 year only. We also request that the M.S., with a fall admit term and a January 15 deadline, continue to be made available on the online application (we occasionally admit late applicants if they have their own funding).

Let us explain the distinction between our M.A. and M.S. degrees: the M.S. degree is the thesis option, whereas the standard M.A. is for course work only. Very few applicants understand the distinction when they are applying, and even fewer can anticipate at the application stage whether they will want to write a thesis. Therefore, the M.A. and M.S. are virtually interchangeable choices for applicants. If students decide to change from the M.S. to the M.A. they will use the add/change major process as early as possible in their academic career.

- We also request that the M.A. REDA named option have an admit term for summer only and an application deadline of May 1. The May 1 deadline would continue with the new Graduate School online application. The rationale for the later deadline is that we do not have to arrange for funding for the M.A. REDA named option students, and so we can accept them later in the admissions cycle. We also want to maximize the number of REDA applicants.

We look forward to the new Graduate School online application where the plan is not tied to the deadline table but instead is listed by programs on their webpages.