24 February 2014

TO: Jocelyn Milner, Associate Provost and Director, Academic Planning and Institutional Research

FROM: Kathyrn VandenBosch, Dean, College of Agricultural and Life Sciences

RE: Undergraduate Certificate in Development Economics

At its regularly scheduled meeting on February 18, 2014, The College’s Academic Planning Council approved the Department of Agriculture and Applied Economics’ request to create a new Undergraduate Certificate in Development Economics. We understand this motion requires action by the University Academic Planning Council and ask that it be placed on their agenda at the earliest possible time. Supporting documents are attached. Please feel free to contact me if you have any questions.

cc: CALS APC
    Ian Coxhead
    Bradford Barham
20 February 2014

TO: Bradford L. Barham, Professor, Agricultural and Applied Economics
    Kate VandenBosch, Dean and Director, College of Agricultural and Life Sciences

FROM: John Karl Scholz, Dean

RE: Proposal to create a new Undergraduate Certificate in Development Economics

CC: Elaine Klein, Assistant Dean for Academic Planning, L&S
    Jocelyn Milner, Associate Provost and Director, Academic Planning and Analysis

On February 18, 2014 the L&S Academic Planning Council considered the request submitted by the Department of Agricultural and Applied Economics to create a new Undergraduate Certificate in Development Economics. The Council appreciated having the opportunity to hear from Professor Schechter, who addressed jointly the CALS and L&S APCs. As you know, the proposal also came to the councils with a recommendation for support from both college curriculum committees.

As designed, we believe L&S students should be able to complete the program requirements with courses that also satisfy L&S degree requirements. The program therefore seems not only to present an interesting new opportunity to students, but should also do so without causing problems in reaching their degree goals. As ever, I would encourage our CALS colleagues to keep the lines of communication open with L&S Student Academic Affairs (and vice versa) if it appears that this isn’t running smoothly.

The L&S APC unanimously approved a recommendation that L&S support this request. We wish you all success with the program.
Undergraduate Certificate in Development Economics

1. **Certificate Name and Academic home**

   a. Development Economics
   b. Department of Agricultural and Applied Economics (AAE), College of Agricultural and Life Sciences
   c. Faculty Director: Bradford L. Barham (AAE).
   d. Key Program Faculty, all in AAE: Jennifer Alix-Garcia; Bradford Barham; Jean-Paul Chavas; Ian Coxhead; Jeremy Foltz; Laura Schechter.

2. **Intended timeline for implementation:**

   We hope to start enrolling students in the fall of 2014.

3. **Supporting letters/memos from other academic units:**

   We have received letters of support from International Studies, Economics and International Business. Political Science sent an email indicating no objection. We are still awaiting a letter of support from CALS Community and Environmental Sociology—(they will meet 2/3/14 to consider our request). We requested a letter of support from the Wisconsin School of Business in August 2013 but as yet have received no response. We are now seeking support from the APCs of L&S and CALS. Note: all required letters are included.

4. **Governance**

   Governance of the certificate program will be managed by the AAE Executive Committee, which will appoint a director on a bi-annual basis. The AAE Curriculum Committee will review the organization and performance of the Certificate Program on an annual basis.

5. **Purpose, Rationale, Justification**

   As international issues have become of greater interest among students and employers, new international certificate programs have been popping up across campus. While the existing certificate programs are all excellent, none of them emphasize economics. This is the gap we plan to fill. This certificate program will meet the demands of students who want to learn about and work on issues related to development economics.

   AAE currently offers multiple courses related to development economics, with 50-100 students enrolling in each class. In the 2010-2011 and 2011-2012 academic years, AAE offered 7 distinct courses in development economics for a total of 13 course offerings. (On average each course is offered once per year.) The average number of students per course over those 13 course offerings is 78. This is evidence of the high demand for these
classes. Many of the students in these classes tell us they would like to deepen their study of these topics, evidence of the latent demand for the certificate. Given the enrollments in our existing classes, we expect that less than half (around a quarter) of the interest in our certificate would come from within AAE and more than half of the interest would come from students with majors other than AAE.

In terms of academic training, this program would offer students the opportunity to take a coherent set of courses, which are designed to build analytical and thematic depth in the field of development economics.

The currently proposed certificate is part of a series of initiatives the AAE department has undertaken recently to both increase student numbers and improve learning outcomes of students. Part of the impetus for these changes has been the departure or retirement of some faculty and the hiring of other new faculty. These initiatives include an overhaul of the graduate-level core curriculum, two new environmental economics courses offered at the 200-level targeted to an audience of freshmen and sophomores, and a new CALS undergraduate certificate in Business.

There are sufficient resources for all of these endeavors. The overhaul of the graduate curriculum has already occurred, and involves a change in curriculum, but no additional courses need to be taught. One of the new 200-level courses is a renumbering and rethinking of the syllabus of a previous 300-level course, while the other new 200-level course is taught by a new faculty member who was hired by the WID. Both the CALS Business Certificate and the Development Economics Certificate do not involve the teaching of new courses. Rather, they potentially involve slightly larger class sizes, for which we do have resources. If there are under 30 students enrolling in both certificates per year, which seems reasonable, our current faculty will be able to handle the extra advising and our current Undergraduate Student Services Coordinator will be able to handle the extra assessment. If more students enroll, the Undergraduate Student Services Coordinator could increase her current part-time status.

6. Curriculum

The certificate would require 5 courses (approximately 15 credits). In order to declare the Certificate, the student must have successfully completed AAE 215, Econ 101, or a comparable introductory economics course to expose students to the vocabulary and concepts of the economy. AP credit may also be used to satisfy this requirement. In the core, students take two (of three) courses that provide an overview to development economics (the role of markets in the economic development of nations and their people). The 3-course electives requirement allows students to tailor their remaining courses to their particular (topical or geographical) interests within the broad field of development economics, choosing at least one course with an AAE focus, and one from another disciplinary perspective. All of the courses listed below are approved, offered regularly, and unambiguously identifiable in a DARS audit. These courses may be taken in any order. (For courses which are cross-listed, the departments with which they are cross-listed are included in parentheses.)
a. Core AAE courses: 373 (Intl St) or 374 (Intl St); 474 (Econ) – **Students must take AAE 474 and one additional course from this section.**

b. Elective AAE Courses: 319; 350 (Agronomy, Inter-Ag, Nutr Sci); 373 (Intl St) or 374 (Intl St); 462 (Econ, Intl Bus); 473 (Econ); 477 (Econ); 567 (Econ) – **Students must take one course from this section.**

c. Elective Non-AAE Courses: **Students must take one course from this section.**
   
i. Community and Environmental Sociology: 380 (Soc, Pop Hlth), 540 (Soc, Envir St), 630 (Soc).
   
   ii. Economics: 364, 464, 467, 475.


   v. Political Science: 312, 371, 376.

**Students must take the one remaining course from any of those listed above in a, b or c.**

All departments whose courses are listed above have provided a memo stating that they have space and will communicate with us about any changes in their course offerings. We are also providing memos from L&S and the Business School.

7. **Overlap Limits**

A student may combine this certificate with any other certificate and/or major. However, students with a major in Agricultural & Applied Economics, a major in Economics, or a major in the Politics and Policy in the Global Economy option in International Studies may count no more than six credits toward both their major requirements and the requirements for the Certificate in Development Economics.

8. **Assessment and Program Review**

The major learning goals of the Certificate in Development Economics are to help students in the certificate program build a solid foundation of analytic skills that will enable them to better understand the challenges created by world poverty. They will better understand how economics can be used to develop policies to address the problems of poverty and the impact of globalization on growth and development. More specifically, learning goals include understanding and being able to explain:

1. The fundamental distinction between economic growth and economic development.
2. The impact of globalization on growth and development.
3. The main results from the empirical growth literature
4. Why market-oriented reforms often spawn strong resistance.
5. The distinction between income inequality and poverty.
6. The complex relationship between population growth and economic growth.
7. The concept of investment in human capital and its contribution to growth.
8. The bi-directional nature of improved health and economic growth.
9. The major types of investment for growth and what influences their efficiency.
10. The implications of foreign investment for a nation’s economy.
11. The causes and consequences of financial panics.
12. The controversies surrounding foreign aid including its motivations and impacts.
13. The issues in the debate about food self-sufficiency and food security.
14. The various forms of land tenure in developing countries and the effect of property rights on incentives in agriculture.
15. The fundamental concept of comparative advantage as the basis for gains from trade, as well as its major implications.
16. The causes and cures of Dutch disease, which has turned many a commodity boom into a development disaster.
17. The premises, objectives, and policy instruments defining import substitution as a strategy for industrialization.
18. The main features of an outward-looking export-led strategy of industrialization.
19. Evaluate the argument that many of the problems facing developing countries today are legacies of the colonial era.
20. Discuss the importance of institutions like property rights and economic mobility in economic development.
21. Identify the impacts of labor migration on developing countries.
22. Define remittances and explain their impacts on development.
24. Describe the environmental challenges posed by economic development.
25. Discuss how Randomized Control Trials can be used to evaluate development policies and discuss their limitations.

Assessment of the program will be conducted by the AAE Curriculum Committee. In order to evaluate student learning, the Committee will use course-embedded assessment in the one required core course, AAE 474. Students will demonstrate their learning through reaction papers, assignments and exams. The Committee will also use the student comments from course evaluations of the courses offered in the Certificate, as well as the evaluation themselves.

The Committee will annually review the number of students applying for the Certificate and the number of students requesting course exceptions and substitutions. The Committee will conduct exit interviews with students who have completed the Certificate to evaluate the success of the program and determine if curricular changes are needed. The exit interview will be sent to students electronically, and they will have an option to reply by email or discuss in person with the Undergraduate Student Services Coordinator. A draft of the exit interview is included at the end of this document.

AAE understands that the certificate program would need a formal review five years after its introduction. After that, there would be periodic reviews at a frequency to be
determined in part by the efficacy of the program at the five year point and concerns raised during the review.

9. Admission requirements

For admittance to the Certificate in Development Economics, students must be enrolled undergraduates at the University of Wisconsin-Madison and must have successfully completed AAE 215 or Econ 101, or the equivalent (this would include transfer credit or AP credit). Students will declare the Certificate to be reviewed by the department of AAE and then it will be routed through 116 Ag Hall for posting to the student’s record.

10. Enrollment, Progress, and Certificate Completion

We anticipate that there will be approximately 10 students per year enrolling in the certificate program. We came to this number since it is approximately 5% of the students enrolled in AAE 373, 374, 474 and the other AAE electives in each year and we think that 5% of those students are passionate enough about Development Economics to want to sign up for the certificate. For example, AAE 374 and 474 average 60 students per year. AAE 350, one of the elective courses, has several hundred students each time it is taught. Again, going by the enrollments in our existing classes, which seem to be approximately a quarter AAE students and three quarters students from other majors, we would expect approximately 2 of the 10 students each year to be AAE majors and 8 to be majors in other departments.

The core courses of AAE 373, 374, and 474 currently tend to have 5-20 spots open each time they are taught. If we find that this certificate increases enrollments by a lot, we have access to teaching assistants and could potentially increase enrollments in the core courses. Professors are available to offer all of the courses at least once per year. We could potentially offer one of the classes twice per year if the demand is high enough. This might be in summer or as a temporary base overload assignment to faculty from our own or other units (this latter policy limitation is currently under review as part of the Educational Innovation Initiative). AAE 373 has been offered less regularly recently because of professorial leaves and temporary governance assignments. By 2013, offering it annually will again be feasible.

None of these courses rely on the certificate to be held. Their current enrollments are sufficiently large to sustain their value to students. So, if enrollments in the certificate program are lower than we expect, this will not be problematic for our department. Once the certificate program is established, we would expect to have 10 students complete the Certificate each year.

11. Advising and Exceptions/Substitutions

Primary advising for the certificate program will be handled by the Certificate Faculty Director and the AAE Undergraduate Student Services Coordinator. As we anticipate 10 students per year will declare the Certificate, the advising load should not increase
substantially. If the number of students declaring the Certificate is larger than anticipated, the Undergraduate Student Services Coordinator is currently part-time and could increase her appointment to handle more students. Students in the Certificate will meet with the AAE Undergraduate Students Services Coordinator for advising. The coordinator will review the students’ DARS to evaluate whether the Certificate will hinder the student’s time to degree.

For AAE and Econ majors, the Development Certificate program will align readily with their requirements. More than 2/3 of AAE’s certificate courses in globalization and international development are currently cross-listed with economics. The certificate will also provide a path for AAE majors to demonstrate their curricular emphasis on development economics, since the AAE concentrations are not transcriptable.

The requirements of this certificate will also align nicely with Community and Environmental Sociology, Environmental Studies, International Business, International Studies (especially the “Politics and Policy in the Global Economy” track), Political Science, Social Welfare/Work, Sociology, and the various Area Studies majors. Many of the students who currently take the proposed core classes are majors in these different departments. Students from these fields, with an interest in issues related to poverty, wealth, and well-being, would do well to bolster their understanding of the role of the economy in shaping the issues and activities of their chosen field. This certificate will also serve as an alternative to a second major for those students interested in economic development who don't have the space in their studies to complete a full AAE major.

The certificate will not hinder time to degree for those students who are majors in AAE, ABM, C&E Sociology, Economics, International Business, International Studies, Political Science, and Sociology. The 5 course requirement, the potential to take up to 6 credits outside of AAE, and the fact that so many of the courses listed are cross-listed would make it an uncommon issue. All students declaring the Certificate will have to meet with the AAE Undergraduate Coordinator to go over their academic plan and ensure that they will be able to complete the Certificate in a timely manner. At the end of this document we attach four sample four-year plans for students enrolling in this certificate with majors in AAE, Community and Environmental Sociology, International Studies, and Political Science.

Exceptions and substitutions will be approved by the Certificate Director and the SPAC form will be filled out by the Undergraduate Student Services Coordinator. The additional workload should not be a problem for any of the parties involved. The goal of the program is to have no more than 10% of the students require an exception in order to complete the certificate. Looking at trends in the actual number of students requesting exceptions will be part of our assessment plan.

12. Enrollment of University Special Students

We do not plan to make special students eligible for the certificate.
13. Resources and Ongoing Commitment

The primary resources will be the Faculty Program Director and the Undergraduate Advisor. We anticipate a small increase in their workload, and this will be accommodated with existing departmental staffing resources. Faculty and teaching assistants teaching the core and elective courses may experience a slight increase in demands from students enrolled in the Certificate program. That will be monitored, and if it becomes a significant concern, then AAE will seek additional staffing resources (e.g., graduate student assistantship) to help ease some of the ‘office hour’ time and networking assistance being sought by the students.
## Certificate in Development Economics and AAE Major - Sample Four-Year Plan

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### University General Education and CALS Requirements
- Can be used to satisfy QR-B requirement

### AAE Requirements
- Can be used to satisfy AAE concentration requirements

### Certificate in Development Economics Requirements
### Certificate in Development Economics and Community & Environmental Sociology Major - Sample Four-Year Plan

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**University General Education and CALS Requirements**

**Community & Environmental Sociology Requirements**

**Certificate in Development Economics Requirements**

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3 Can be used to satisfy QR-B
# Certificate in Development Economics and International Studies Major - Sample Four-Year Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester Sample Courses</th>
<th>Credits</th>
<th>Fall Semester Actual Courses</th>
<th>Credits</th>
<th>Spring Semester Sample Courses</th>
<th>Credits</th>
<th>Spring Semester Actual Courses</th>
<th>Credits</th>
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<td>Int'l Studies 101 Comm-A Foreign Language QR-A</td>
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<td>14-15</td>
<td>Ethnic Studies Econ 101 (QR-B) Foreign Language Natural Sciences Int'l Studies - Elective</td>
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<td>Int'l Studies – Area Studies Breadth – Literature Int'l Studies Issues/Electives Foreign Language</td>
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<td>Int'l Studies-Track Core Natural Sciences Certificate Core Breadth – Humanities Int'l Studies Issues/Electives</td>
<td>3 3-4 3 3 3 15-16</td>
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**University General Education and L&S Requirements**  
**International Studies Requirements**  
**Certificate in Development Economics Requirements**

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4 Can be used to satisfy Int'l Studies Issues or elective requirement  
5 Can be used to satisfy Social Sciences breadth requirement
## Certificate in Development Economics and Political Science Major - Sample Four-Year Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester Sample Courses</th>
<th>Credits</th>
<th>Fall Semester Actual Courses</th>
<th>Credits</th>
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<td>Breadth - Literature Political Science Electives(^6) Certificate Elective Natural Sciences Electives</td>
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### University General Education and L&S Requirements
- **Political Science Requirements**
- **Certificate in Development Economics Requirements**

\(^6\) Can be used to satisfy Social Science Breadth
Date: December 17, 2013

To: Ian Coxhead, Chair, Agricultural and Applied Economics, UW-Madison,

From: Ananth Seshadri, Chair, Department of Economics, UW-Madison

Re: AAE Certificate in Development Economics

Dear Ian:

Please accept my sincere apologies for this prolonged delay. I am delighted to let you know that the Economics Department is supportive of your newly proposed “Certificate in Development Economics”. We will have space for students who sign up for the certificate and in the event there are any changes in our offerings, we will be sure to let you know.

Best Regards,

Ananth Seshadri

Professor

Department of Economics
Ian Coxhead
Chair, Department of Agricultural and Applied Economics
427 Lorch Street, Taylor Hall
Madison, WI 53706-1503

30 October 2013

Dear Professor Coxhead,

In our meeting on 9 October 2013, the steering committee of the International Studies Major offered to endorse your department’s proposed new certificate in Globalization and Development Economics.

The committee expressed two conditions for its support of the certificate. The first is that the section on Overlap Limits include our major’s option in Politics and Policy in the Global Economy, in order to avoid duplication. The second is that we would greatly appreciate the inclusion of Professor Stephen Young’s IS 402 course, Global Poverty and Inequality, as a possible elective.

Many thanks for your request, and best of luck seeing the certificate program through to its inception. It promises to be a useful addition to campus programs on internationalization.

Sincerely,

Richard C. Keller
Director, International Studies Major
August 28, 2013

Professor Ian Coxhead  
CALS

Dear Ian,

I am writing on behalf of the Department of Management and Human Resources and the Department of International Business in the Wisconsin School of Business. Your proposal for an undergraduate certificate in Globalization and Development Economics has been reviewed. I am delighted to offer support for the proposed certificate. It looks like a great opportunity for UW-Madison students!

Good luck with the final development and introduction of the new certificate.

Sincerely,

Randall B. Dunham  
Chair of Management and Human Resources  
Chair of International Business
Date: February 26, 2014

To: Ian Coxhead, Chair, Agricultural and Applied Economics, UW-Madison

From: Joann Peck, Associate Dean of Undergraduate Business, UW-Madison

Re: AAE Certificate in Development Economics

Dear Ian:

I am sorry for my delay in responding. I want to let you know that the Wisconsin School of Business is supportive of your newly proposed “Certificate in Development Economics.” With only ten students targeted for this certificate, we support it going ahead. If it were to grow much larger or create any pressure on enrollments for us, we would want to be able to review the list of targeted electives. Thank you very much.

Sincerely,

[Signature]

Joann Peck
Associate Professor, Marketing Department
Associate Dean of Undergraduate