MEMORANDUM

TO: Nariman Farvardin  
Dean, A. James Clark School of Engineering

FROM: Victor Korenman  
Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to Convert the Existing Citation in International Engineering to a Minor in International Engineering (PCC Log No. 04079)

April 15, 2005

At its meeting on April 15, 2005, the Senate Committee on Programs, Curricula, and Courses approved your proposal to convert the existing citation in International Engineering to a Minor in International Engineering. A copy of the approved proposal is enclosed.

This approval is effective immediately. No student may be allowed to begin the discontinued Citation program after this time, but students who have already taken or who are taking a course towards the Citation must be permitted to complete it if they so choose. All advisors should be notified and the College should ensure that the approved guidelines are followed.

VK:sfm  
Enclosure
Cc: Dr. Sylvester J. Gates, Chair, Senate PCC  
Dr. Mary Giles, University Senate  
Ms. Barbara Hope, Data Administration  
Dr. Phyllis Peres, Undergraduate Studies  
Dr. Gary Pertmer, A. James Clark School of Engineering  
Ms. Anne Turkos, Archives  
Dr. Linda Yokoi, Records & Registrations
DATE SUBMITTED: February 8, 2005

PCC LOG NO: 04079

COLLEGE/SCHOOL: A. James Clark School of Engineering

DEPARTMENT/PROGRAM: A. James Clark School of Engineering

PROPOSED ACTION: (A separate form for each) ADD _ x _ DELETE ___ CHANGE ___

DESCRIPTION: (Provide a succinct account of the proposed action. Details should be provided in an attachment. Provide old and new sample programs for curriculum changes.)

Convert the Clark School's "Citation in International Engineering" to a "Minor in International Engineering."

JUSTIFICATION/REASONS/RESOURCES: (Briefly explain the reason for the proposed action. Identify the source of new resources that may be required. Details should be provided in an attachment.)

The Clark School is proposing to convert our "Citation in International Engineering" to a "Minor in International Engineering." This is in line with the University Senate proposal to establish new academic minors and convert existing academic citations to minors. No new resources are expected to be required.

APPROVAL SIGNATURES

1. Department Committee Chair
   [Signature] [Date: 3/11/05]

2. Department Chair
   [Signature] [Date: 2/15/05]

3. College/School PCC Chair
   [Signature] [Date: 3/15/05]

4. Dean
   [Signature] [Date: 3/15/05]

5. Dean of the Graduate School (if required)
   [Signature] [Date: 3/15/05]

6. Chair, Senate PCC
   [Signature] [Date: 4/15/05]

7. Chair of Senate
   [Signature] [Date: 4/15/05]

8. Vice President for Academic Affairs & Provost
   [Signature] [Date: 4/15/05]

VPAAP Rev. 3/1/04
Proposal for a Minor in International Engineering to be offered by the A. James Clark School of Engineering.

1. This is a proposal to convert an existing citation into a minor. The transcript will designate the minor as “International Engineering.”

2. Catalog Description

Preparing to practice engineering in a global economy is important for new engineers to advance in their careers. In addition to a strong engineering background, there is a need for engineers with cross-cultural experience and foreign language abilities. Students in the A. James Clark School of Engineering may earn a minor in International Engineering by completing requirements that can include language, culture studies, or internationally-related studies plus international engineering or international engineering-related courses. The minor in international engineering is 15-24 credits, depending on whether language courses are selected to fulfill minor requirements. Up to six (6) credits of engineering courses completed as part of an engineering study abroad program may count to fulfill requirements for the minor and may also apply to the student’s engineering degree. Students interested in completing this minor program should contact the international office in the Clark School for advisement.

Courses required for the minor are:

ENES472 – International Business Cultures for Engineering and Technology (3 credits) [course cross-listed as SLLC472]

In consultation with the international program advisor, the student must choose 6-18 credits of foreign language, culture studies, internationally-related studies or international engineering-related courses plus complete an engineering-related study, work or research experience abroad. Up to six (6) credits of engineering courses completed as part of an engineering study abroad program may count to fulfill requirements for the international engineering minor.

No more than six (6) credits of the minor may count toward a student’s major. No more than six (6) credits of the minor may be completed at an institution other than the University of Maryland, College Park. A minimum of nine (9) credits must be completed at the upper level and at least six (6) of those upper level credits must be taken at the University of Maryland, College Park. All courses for the minor must be completed with a grade of “C” or better.

3. Oversight and Record Keeping

Oversight of this minor program will be through the normal academic process of the A. James Clark School of Engineering. The college’s Associate Dean for Education and the Director of International Programs will be responsible for ensuring that students are properly advised and that records are appropriately kept.

4. Prerequisites

Although required for the program, ENES 100 “Introduction to Engineering Design” is not included as a specific minor requirement because it will likely fulfill part of the major requirements for students who will be interested in this minor.
Examples of how an International Engineering minor might be completed.

Semester study abroad in Chile
ENES 472 – International Business Cultures for Engineering and Technology (3)
SPAN201 – Intermediate Spanish (4)
SPAN202 – Intermediate Grammar and Composition (3)
SPAN301- Advanced Grammar and Composition (3)
ENxx 4xx – Engineering courses (6) [taken abroad]
Total credit requirements=19 credits

Semester study abroad in Hong Kong or Singapore
ENES 472 – International Business Cultures for Engineering and Technology (3)
ENXX 4XX – Engineering courses (6) [taken abroad]
ARTH290 – Art of Asian (3)
CHIN316 – Traditional Chinese Values (3)
Total credit requirements=15 credits

Summer study abroad in France
ENES 472 – International Business Cultures for Engineering and Technology (3)
FREN204 – Intermediate French (4)
FREN311 – Advanced French conversation (3)
ENAE 4xx – Aerospace engineering courses (6) [completed in France]
Total credit requirements=16 credits

Research abroad in the United Kingdom
ENES 472 – International Business Cultures for Engineering and Technology (3)
ENES 458 – Topics in International Engineering: Engineering in the United Kingdom (3) [UM winterterm course]
ENFP 4xx – Research project conducted at the University of Edinburgh, Scotland (3)
HIST 236 – History of Britain 1688 to Present (3)
ENGL 205 – Introduction to Shakespeare (3)
Total credit requirements=15 credits
Citation in International Engineering

Preparing to practice engineering in a global economy has been increasingly important for new engineers to advance in their careers. In addition to a strong engineering background, there is a greater need for engineers with cross-cultural experience and foreign language abilities. Students in the Clark School of Engineering may earn a citation in International Engineering by completing requirements that can include language, culture studies, or internationally related studies plus an engineering study, research, or work experience abroad. Students who successfully complete the requirements for a citation will receive a certificate and the accomplishment will be noted on the student’s transcript.

Citation Requirements

Students should select one of the following options. The options range from 14-17 credits depending on the combination of 3 and 4 credit courses in foreign languages a student might choose to complete.

Option #1 – Study Abroad

A. “International Business Cultures for Engineering & Technology” ARHU 439T (3 credits)
B. Foreign language and/or culture courses: foreign language courses, with at least one course at the intermediate level or above and/or courses related to the country or continent where the student plans to study abroad (6-8 credits).
C. An approved study abroad of at least one semester duration in which at least six credits of engineering courses at the 300+ level are earned at a foreign institution and transferred to the University of Maryland,

Option #2 – Research Abroad

A. “International Business Cultures for Engineering & Technology” ARHU 439T (3 credits)
B. Foreign language and/or culture courses: foreign language courses, with at least one course at the intermediate level or above and/or courses related to the country or continent where the student plans to conduct research abroad (8-11 credits).
C. An approved research program abroad in engineering of at least one semester duration, in which three credits of upper level engineering research (ENxx 4xx) is awarded.

Option #3 – Internship Abroad

A. “International Business Cultures for Engineering & Technology” ARHU 439T (3 credits)
B. Foreign language and/or culture courses: foreign language courses, with at least one course at the intermediate level or above and/or courses related to the country or continent where the student plans to work abroad (12-14 credits).
C. An approved international internship program in engineering of at least one semester duration, in which no credit is awarded.
Examples of How a Student Might Complete the Citation

Internship Abroad - Japan
ARHU 439T – International Business Cultures for Engineering & Technology (3 credits, CORE UL)
JAPN 201 (6 credits)
EALL 300 – The Languages of East Asia (3 credits, CORE D/CORE UL)
ARTH 290 – History of Asia (3 credits, CORE HA)
Summer internship in Japan

Study Abroad – England (King’s College, University of Wales, or University of Manchester)
ARHU 439T – International Business Cultures for Engineering & Technology (3 credits, CORE UL)
ENGR 3xx or 4xx (6 credits taken in UK)
HIST 236 – History of Britain (CORE SH)
ENGL 212 – English Literature: 1800 to the Present (3 credits, CORE HL)

Study Abroad – Pontificia Universidad Católica de Chile
ARHU 439T – International Business Cultures for Engineering & Technology (3 credits, CORE UL)
ENGR 3xx or 4xx (6 credits taken at PUC)
SPAN 201 – Intermediate Spanish (4 credits)
SPAN 202 – Intermediate Grammar and Composition (3 credits)

Research Abroad – France (ENSMSE)
ARHU 439T – International Business Cultures for Engineering & Technology (3 credits, CORE UL)
French 103 – Review of Elementary French (4 credits)
French 201 – Intermediate French (4 credits)
ENCH 468 – chemical engineering research project conducted at French institution (3 credits)

Citation in International Engineering Advisor

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The A. James Clark School of Engineering Citation in International Engineering is offered with cooperation from the Business, Culture and Languages Program.