September 30, 2008

MEMORANDUM

TO: Stephen Halperin  
   Dean, College of Computer, Mathematical and Physical Sciences

FROM: Phyllis Peres  
       Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to rename the M.S. and Ph.D. programs in Applied Mathematics and  
         Scientific Computation as the M.S. and Ph.D. in Applied Mathematics and  
         Statistics, and Scientific Computation (PCC log no. 07040)

On July 1, Chancellor Kirwan gave final approval to your proposal to rename the M.S.  
and Ph.D. programs in Applied Mathematics and Scientific Computation as the M.S. and Ph.D.  
programs in Applied Mathematics and Statistics, and Scientific Computation. The Maryland  
Higher Education Commission acknowledged this action on September 4. A copy of the  
approved proposal is attached.

The changes are effective Fall 2008. The College should ensure that the changes are fully  
described in the Graduate Catalog and in all relevant descriptive materials, and that all advisors  
are informed.

CWR/

Enclosure

cc: Carmen Balthrop, Chair, Senate PCC Committee  
    Sarah Bauder, Office of Student Financial Aid  
    Reka Montfort, University Senate  
    Barbara Hope, Data Administration  
    Denise Nadasen, Institutional Research & Planning  
    Anne Turkos, Archives  
    Linda Yokoi, Office of the Registrar  
    Thomas Castonguay, Graduate School  
    James Purtilo, College of Computer, Mathematical and Physical Sciences  
    Konstantina Trivisa, Department of Mathematics  
    Eric Slud, Department of Mathematics
Dr. C. D. Mote, Jr.
President
Main Administration Building
University of Maryland, College Park
College Park, MD 20742

Dear Dr. Mote:

The Maryland Higher Education Commission has reviewed a notice from the University of Maryland, College Park to change the title of the Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) in Applied Mathematics and Scientific Computation to Applied Mathematics and Statistics, and Scientific Computation. On the recommendation of the Assistant Secretary for Planning and Academic Affairs, Dr. George W. Reid, the program title change has been administratively approved. These changes will be reflected in the Commission’s Academic Program Inventory.

For purposes of providing enrollment and degree data to the Commission, please use the following academic program inventory code:

<table>
<thead>
<tr>
<th>Degree Level</th>
<th>Old Program Title</th>
<th>HECIS</th>
<th>CIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.S.</td>
<td>Applied Mathematics and Scientific Computation</td>
<td>1703-01</td>
<td>27.0301</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>Applied Mathematics and Scientific Computation</td>
<td>1703-01</td>
<td>27.0301</td>
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<td>27.0301</td>
</tr>
</tbody>
</table>

Should the program require any substantial changes in the future, please keep the Commission apprised. I wish you continued success.

Sincerely,

[Signature]

James E. Lyons, Sr.
Secretary of Higher Education

JEL:GWR:ggs

cc: Ms. Theresa Hollander, Associate Vice Chancellor for Academic Affairs, USM
    Dr. George W. Reid, Assistant Secretary for Planning and Academic Affairs, MHEC
July 1, 2008

Dr. C. D. Mote, Jr.
1101 Main Administration Building
University of Maryland, College Park
College Park, MD 20742

Dear Dan:

Thank you for forwarding the request of the University of Maryland, College Park to approve the proposal by the College of Computer, Mathematical and Physical Sciences to rename the M.S. and Ph.D degrees in Applied Mathematics and Statistical Computation as the M.S. and Ph.D. in Applied Mathematics and Statistics, and Scientific Computation.

Please express my appreciation to departmental faculty for their careful work in planning for this change.

Sincerely,

WE Kirwan

William E. Kirwan
Chancellor

cc: Theresa Hollander, Associate Vice Chancellor for Academic Affairs
Dr. Nariman Farvardin, Senior Vice President for Academic Affairs and Provost
Dr. Stephen Halperin, Dean, College of Computer, Mathematical and Physical Sciences
THE UNIVERSITY OF MARYLAND, COLLEGE PARK
PROGRAM/CURRICULUM PROPOSAL

DIRECTIONS:
- Provide one form with original approval signatures in lines 1 - 4 for each proposed action. Keep this form to one page in length.
- Early consultation with the Office of the Associate Provost for Academic Planning & Programs is strongly recommended if there are questions or concerns, particularly with new programs.
- Please submit the signed form to Claudia Rector, Office of the Associate Provost for Academic Planning and Programs, 1119 Main Administration Building, Campus.
- Please email the rest of the proposal as an MSWord attachment to pcc-submissions@umd.edu.

DATE SUBMITTED___ Fall 2007

COLLEGE/SCHOOL___CMPS

DEPARTMENT/PROGRAM__MATH/AMSC

PROPOSED ACTION (A separate form for each) ADD____ DELETE____ CHANGE____ X

DESCRIPTION: Changing the name of the Applied Mathematics and Scientific Computation Program (AMSC) to Applied Mathematics and Statistics, and Scientific Computation. The change in the current name of the program, Applied Mathematics and Scientific Computation to Applied Mathematics and Statistics, and Scientific Computation (AMSC) will be made to accommodate the new area of specialization in Applied Statistics.

*(Renames M.S. and Ph.D. degree programs)

JUSTIFICATION/REASONS/RESOURCES:
Three areas of specialization will be available for students in AMSC. The two which currently exist, Applied Mathematics and Scientific Computation, and the new Applied Statistics area.

The new Applied Statistics Area of Specialization will emphasize computational data analytic and presentation skills across the broad spectrum of statistical applications. The Applied Mathematics and Scientific Computation areas will continue in their current forms.

No new resources needed for proposed name change.

______________________________________________________________________

APPROVAL SIGNATURES

1. Department Committee Chair ___________________________ DATE 10/23/07

2. Department Chair ___________________________ November 5, 2007

3. College/School PCC Chair ___________________________ November 5, 2007

4. Dean ___________________________ David Lay

5. Dean of the Graduate School (if required) ___________________________ 4/18/08

6. Chair, Senate PCC ___________________________ 5/8/08

7. Chair of Senate ___________________________ 9-29-08

8. Vice President for Academic Affairs & Provost ___________________________
Change of Name of the AMSC Degree Programs to “Applied Mathematics and Statistics, and Scientific Computation”

I. OVERVIEW

It is proposed to change the name of the Applied Mathematics and Scientific Computation (AMSC) program to Applied Mathematics and Statistics, and Scientific Computation. A companion document proposes to create an Area of Specialization within each degree program.

II. RATIONALE

The great and increasing importance throughout Applied Mathematics of probability modelling and statistical data analysis mandates the explicit recognition of Statistics in the interdisciplinary AMSC Program. Acknowledging the role of Statistics in the program’s name will serve as a recruiting tool both for students and faculty, explicitly recognizing that the Program will now customize degrees incorporating training in the techniques and computational and graphical skills associated with modern Applied Statistics. The name change is reinforced by the simultaneous proposal to initiate an Area of Specialization in Applied Statistics within both the AMSC M.S. and Ph.D. programs. The Applied Statistics area will have its own qualifying examination structure involving a Data Analysis project and its own specialized requirements including a Practicum involving immersion (usually off-campus) in a real-world setting where applied statistical research is conducted.

III. CONTINUITY OF AMSC PROGRAM ELEMENTS

While the name of the AMSC program and the breakdown into Areas of Specialization will change under this proposal and its companion, the faculty governance, advising infrastructure, and most of the requirements for the degree will remain unchanged. Common themes of all areas of specialization within AMSC include: the requirement to take at least one course emphasizing the mathematics or statistics underlying numerical computation; the requirement to take either Project or seminar credits involving the student in public seminar-style presentation of mathematical material; and the requirement to formulate and gain advising approval for a coherent interdisciplinary program of study including graduate level coursework in Mathematics (MATH or STAT or AMSC courses) and in an area of application.

All three areas of specialization within the renamed AMSC Program share the criteria of mathematical and applied coherence used by each student’s three-person Study Advisory Committee to approve the student’s program of study. That Committee’s decision, like the later Committees approving the student’s prospectus for a candidacy oral examination and dissertation prospectus, will continue to be reviewed according to the same criteria by the Graduate Committee for Applied Mathematics chosen representatively from the AMSC faculty.

Eric V. Slud, MATH

February 6, 2008