Submit originals and one copy and electronic copy to Governance/Faculty Senate Office (email electronic copy to jbharvie@alaska.edu)

**PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR)**

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<tr>
<th>Submitted By</th>
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<tr>
<td>Department</td>
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<td>College/School</td>
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<tr>
<th>Prepared by</th>
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<tbody>
<tr>
<td>Leah Berman/John Rhodes</td>
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<tr>
<th>Email Contact</th>
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<tbody>
<tr>
<td><a href="mailto:lwberman@alaska.edu">lwberman@alaska.edu</a></td>
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<th>Faculty Contact</th>
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<tr>
<td>Leah Berman</td>
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**PROGRAM IDENTIFICATION:**

<table>
<thead>
<tr>
<th>Degree Program</th>
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<tbody>
<tr>
<td>Mathematics</td>
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<tr>
<th>Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)</th>
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<tbody>
<tr>
<td>Ph.D.</td>
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**A. CHANGE IN DEGREE REQUIREMENTS:** (Brief statement of program/degree changes and objectives)

This is a modification of the Ph.D. requirements in accordance with the PhD revitalization proposal approved by the provost in Spring 2013.

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**RECEIVED**

**NOV - 8 2013**

Dean's Office
College of Natural Science & Mathematics
B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:

**PhD Degree**

1. Complete the following admission requirements:
   1. Submit three letters of recommendation concerning the applicant's educational background and quantitative training.
   2. Submit transcripts indicating completion of a master's degree in mathematics or equivalent.
   3. Submit a resume.
   4. Submit a written statement of goals.
   5. The department does not require any GRE, but recommends applicants provide GRE general scores.
   6. Complete and submit a TOEFL. (For teaching assistantship consideration, foreign applicants whose native language is not English. Score of at least 600.)
   7. The department gives preference to applicants who also submit results of the Test of Spoken English.

2. Complete the **general university requirements**.
3. Complete the **PhD degree requirements**.
4. Minimum credits--18 credits
C. PROPOSED REQUIREMENTS AS IT WILL APPEAR IN THE CATALOG WITH THESE CHANGES:
(Underline new wording strike through old wording and use complete catalog format)

PhD Degree

1. Complete the following admission requirements:
   a. Submit three letters of recommendation addressing the applicant's educational background, and quantitative training, mathematical ability, and research and teaching potential.
   b. Submit undergraduate and, if applicable, graduate transcripts, indicating completion of a master's degree in mathematics or equivalent.
   c. Submit a resume and written statement of goals.
4. Submit a written statement of goals.
5. The department does not require any GRE, but recommends applicants provide GRE general scores.
6. Complete and submit a TOEFL. (For teaching assistantship consideration, foreign applicants whose native language is not English. Score of at least 600.)
7. The department gives preference to applicants who also submit results of the Test of Spoken English.

2. Either submit transcripts indicating the completion of a master's degree in mathematics or a related area, or complete all the requirements for the M.S. degree in mathematics, including a project or thesis which initiates study of the Ph.D. research area.

3. Pass the Ph.D. qualifying exam
4. Complete the general university requirements (page 202).
5. Complete the PhD degree requirements (page 207).
6. Complete at least 36 credits beyond the M.S. degree.
7. Minimum credits.................................36 credits

Note: for admission to the graduate school, students who are non-native speakers of English are required to submit either TOEFL or IELTS scores. While not required, we recommend the submission of GRE mathematics subject test scores as part of the application for all students.

D. ESTIMATED IMPACT
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

These are procedural changes for the Ph.D. program and should have no impacts on budget, space or facilities. It should help recruitment of students into the program.
E. IMPACTS ON PROGRAMS/DEPTS:

What programs/departments will be affected by this proposed action?
Include information on the Programs/Departments contacted (e.g., email, memo)

This should positively impact the mathematics Ph.D., by allowing students with an interest in the Ph.D. to enter the program even if they have not yet completed a masters' degree, as is common elsewhere.

F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:

Description of the student learning outcomes assessment process.

NA

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize program/degree change applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you drop a course, is it because the material is covered elsewhere? Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the program is not compromised as a result.

We propose these changes as part of a broader revitalization plan for the mathematics Ph.D. program, which includes developing a more structured internal path for students, enhancing recruitment efforts, and instituting a clearer set of exam requirements.

APPROVALS:

John C. Baker
Date 11/5/2013
Signature, Chair, Program/Department of: Mathematics & Statistics

Thomas K. See
Date 12/16/13
Signature, Chair, College/School Curriculum Council for: CNSM
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<tr>
<th>Signature, Dean, College/School of:</th>
<th>CMSU</th>
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| ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE |
|---------------------------------|-----|

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<tr>
<th>Signature, Chair, UAF Faculty Senate Curriculum Review Committee</th>
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