UNIVERSITY OF ALASKA
FAIRBANKS
College of Natural Science and Mathematics
Office of the Dean

MEMORANDUM

To: Paul Reichardt, Provost

From: Joan Braddock, Dean

Date: 12 June 2006

Subject: Program Review—Department of Mathematics and Statistics Programs

Attached is my review of the programs in the Department of Mathematics and Statistics. I have not yet received the review from the external committee for the Atmospheric Science Program. Thus, my review of that program will be delayed until sometime after I receive their report.

Cc: Dana Thomas, Dept. Chair
CNSM Files

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Dean's Evaluation
By Joan Braddock, Dean
12 June 2006
Program Review—2005-2006: Department of Mathematics and Statistics

BS, MS Statistics

Introduction

My evaluation of the programs in the Department of Mathematics and Statistics (DMS) follows the outline provided by the Provost for dean's reviews. I have added some additional comments at the end of my report addressing issues brought up by the department and by the external review committee.

[redacted]

For statistics programs, seven students received BS degrees in statistics during the

degree in science already. Thus, the degree appears to serve students by providing them with tools for quantitative science. The master's degree program typically has 4-6 students enrolled. The department provided a nice history of where many of the graduates from that program are now working. Many graduates of the MS program in statistics work in jobs in Alaska or go on to graduate school. The evidence provided indicates that, while the number of students who major in statistics are fairly low, the quality of the students and the training they receive makes them highly competitive for jobs or further graduate school opportunities

additional faculty to teach courses, and for faculty/student support to improve the

Statistics also provides a substantial service function at UAF. Courses in statistics tend to be in high demand, one indicator that they are useful to students. An issue with quality of the statistics programs is retention of high quality faculty. Beginning next year all four faculty positions will be filled. It is an outstanding group of faculty and I am committed to do what I can as dean to retain these faculty.

3. Scholarship of Faculty: The program review committee highlighted the flexibility of the faculty in DMS. In general, faculty teach a wide diversity of courses. Most

5. Relation to UAF Mission, UAF Strategic Plan, UAF Academic Development Plan, and service/outreach efforts of faculty: The relationship of the programs in the department to UAF2010 was well documented by the external review committee.

6. Evidence of programmatic planning to achieve curricular goals, faculty and staffing goals, and overall effectiveness of programs: In general, the DMS has done a very good job with outcomes assessment and [redacted]

Faculty development money is likely to remain a problem into the

foreseeable future.

b. Space: Space is a severe problem for both math and computer science. I should be able to help with (with modest financial support and lobbying support) some of the short-term issues like adequate board space in classrooms and ceiling mounted projectors in rooms used for teaching math courses. It would also be very helpful if the Alaska Native Languages program materials could be entirely removed from the Penthouse. In addition, I am happy to lobby for moving the Math Lab to the first floor and the modifications that would follow. However, all of these issues will require resources not allocated at the college level. In addition, for longer term space needs, we (UAF)

; otherwise noted)

CHEM	G & G	PHYS	MATH	CS
2,555	1,808	1,566	4,085	1,013
67	43	47	42	127
17	50	11	8	15
19	31	13	6	0
$1,377,287	$1,360,137	$905,367	$1,385,995	789,569
8.6	9.25	7.25	13.5	7.5
1	0	4	7	3
3	3.125	2.5	1	1.5
13	14	8	9	4

nt of Total

WL	CHEM	G & G	PHYS	MATH	CS
27	17	12	10	27	7
50	10	7	7	6	20
20	10	30	7	5	9
59	15	24	10	5	0
24	17	17	11	17	10
25	13	14	11	21	5
2	6	0	71	41	18
26	20	20	16	7	10
36	17	19	11	12	5

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