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## Review of Graduate Degree Programs in Mathematics, 2005-06

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Elizabeth Allman John Gimbel Sergei Avdonin Tony Rickard

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(February 2004) and Assessment Report for the		
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2004—2005 (March 2005)		
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The goal of our review has been to identify some of the strengths, weaknesses, needs and significant changes in the three graduate mathematics degrees offered by the UAF

Denoting and Statistics MS Mathematics and

## PhD Mathematics.

These three graduate mathematics degree programs are built from a common set of courses and faculty, but they are otherwise very different from each other. Each of the sections below will be headed by comments which apply to all degree programs and then

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courses is one of our strengths. (The number of student credit hours offered by the Denartment of Mathematical Sciences is largest in the college, though tied with Biology
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 service load DMS carries, as non-major credit hours per faculty member, far exceeds any other CNSM department.)

Of these seven MS graduates, two currently work as instructors in mathematics at the college level:

- Bowman is an instructor in Mathematics in DMS here at UAF,
- Carlson is an instructor in Mathematics at North Country Community College, State University of New York.

The remaining five are in PhD programs of the highest quality:

here at UAF.

strength of the MS program.

- Averina is in a PhD Applied Mathematics program at the University of Minnesota, Twin Cities,
- Belov is in a PhD Mathematics program at Duke University,
- Filipov is a PhD Economics program at Ural State University, Russia

Mathematical Sciences, New York University,

Nikolsky is in an Interdisciplinary PhD program in Geophysics and Mathematics

This is evidence of the success of our MS graduates and, at least in part, represents a

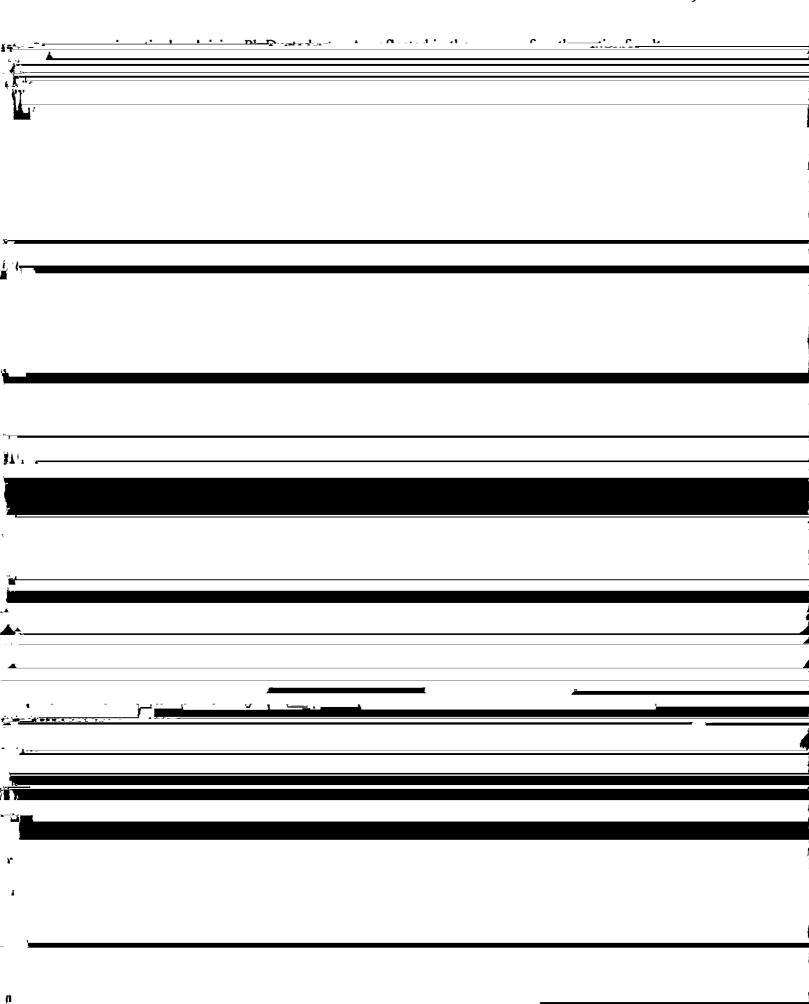
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	Weaknesses
	Weaknesses of all degree programs: The primary weakness of our graduate program is the small size of the faculty. The 8.5 FTE tenure-track and tenured faculty, along with 2
	permanent instructors are, in total, in charge of five degree programs (BA, BS, MS, MAT, and PhD in Mathematics) and teach the largest load of service courses in the College and possibly the University.
	During the fall of 2005, prompted in part by recent faculty turnover and in part by this
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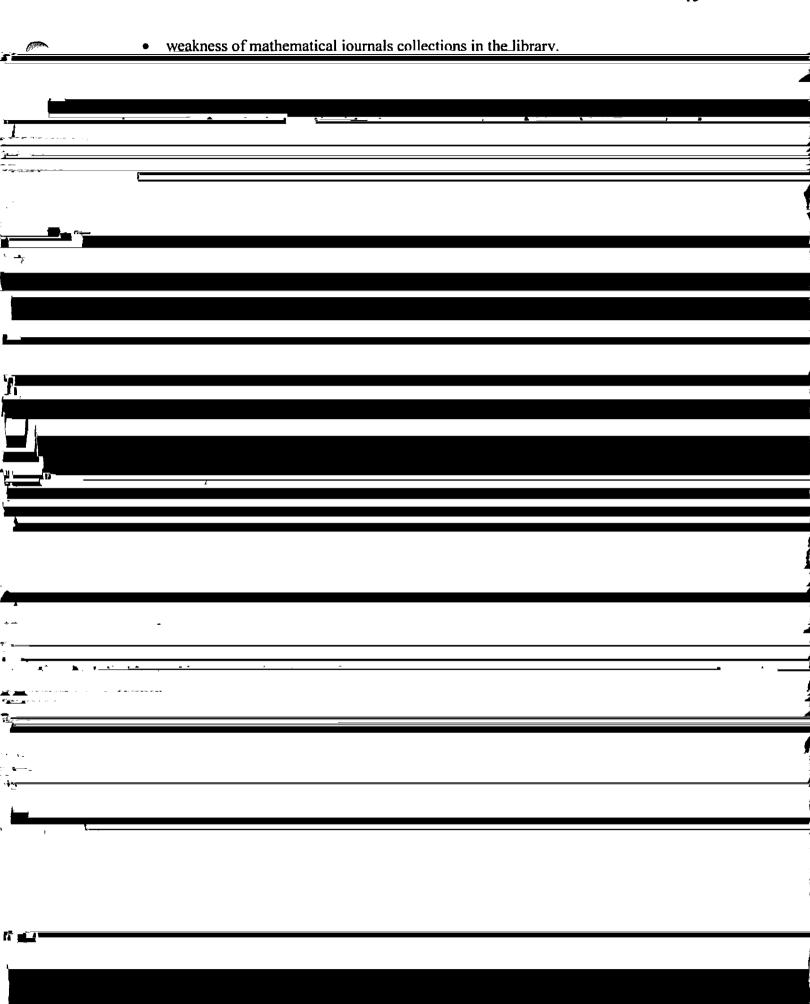
(	of students, must be reduced, and this reduces the utility of such a course to those who need training in creating new mathematics, that is, to Mathematics graduate students.
	In conclusion, we note that even if DMS ceased to offer graduate degree programs in
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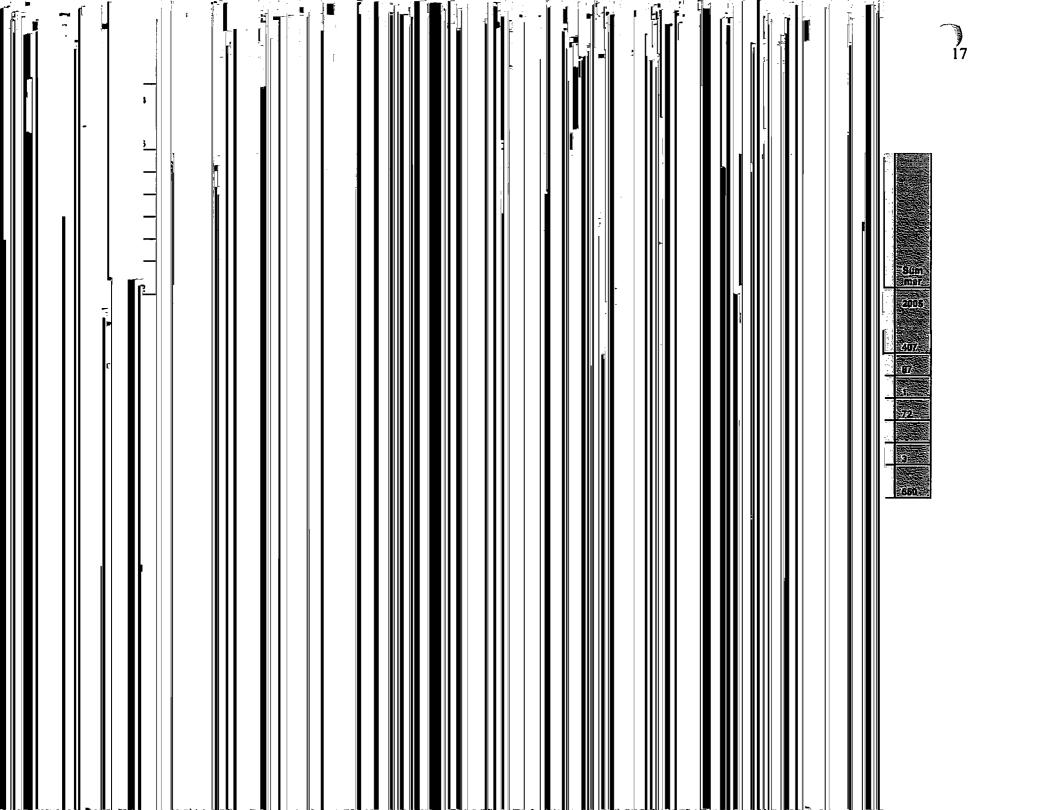
	course to our offerings. There are as well. faculty in the Department of	
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F. F. & W. W. S. & W. & S.	<u>*-</u>	
	therefore, a candidate for cross-listing if both faculties were so inclined.)  3. A revision of the catalog descriptions of the cross-listed courses Math/Phys 611/612 is underway. Agreement between the faculties on a written draft has	
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	Needs
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	A comparison to other PhD-granting mathematics departments (in the lowest tier as rated by the American Mathematics Society) is illuminating. See appendix 7, which reports an informal survey of the sizes of these departments.
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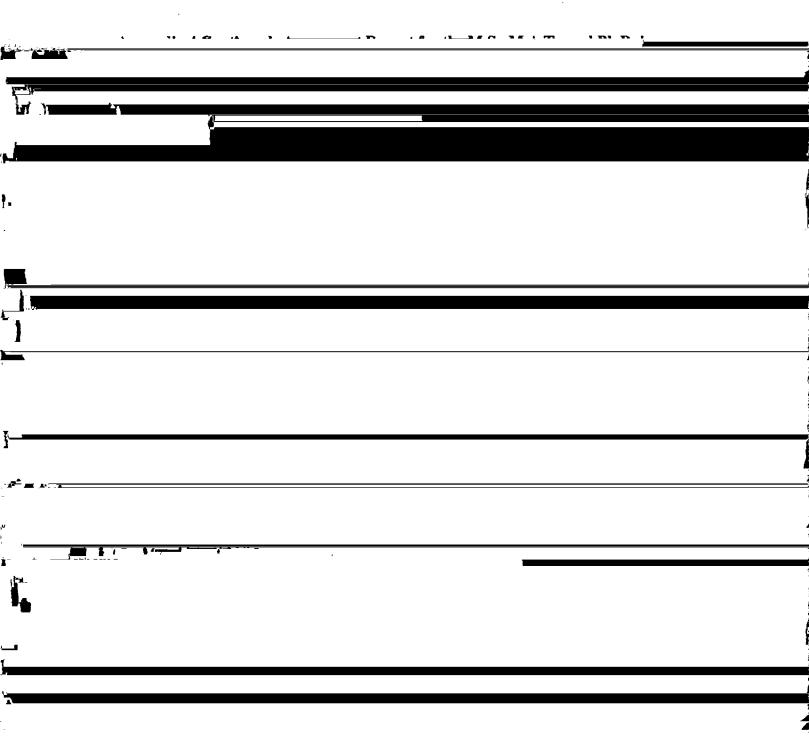




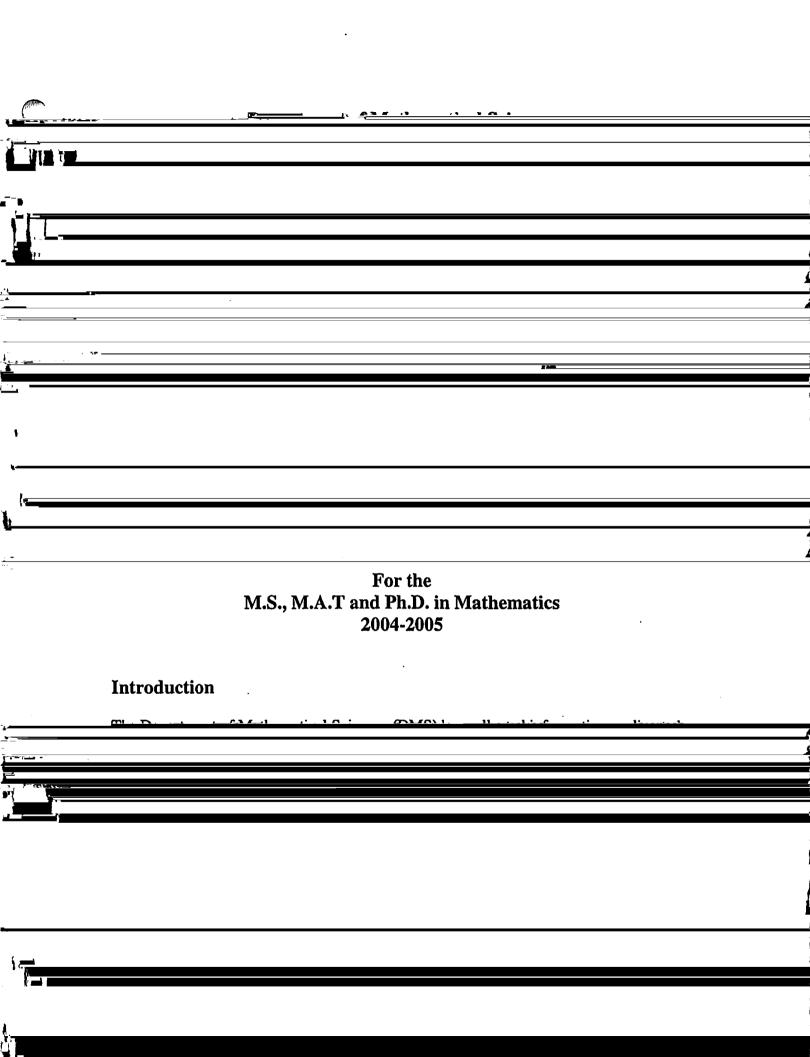


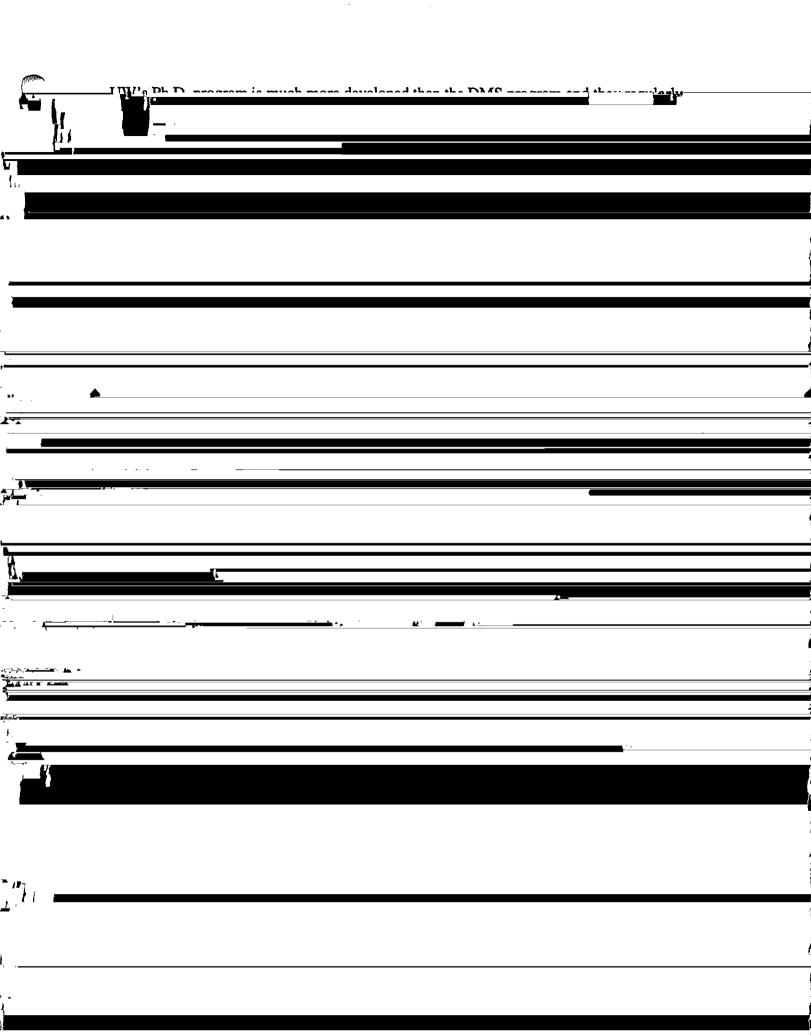
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	Appendix 4 – Student Learning Outcomes Assessment Plan
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	and Doctor of Philosophy  Mission: We shall provide quality education responsive to the needs of individual students and the diverse population of Alaska.
	<u>Carl: The pour at the tour attended on a representative properties to account in the lift of the lift</u>
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	job market in mathematics or a closely related field.
	ASSESSMENT IMPLEMENTATION PROCEDURES INTENDED CRITERIA (what where where)



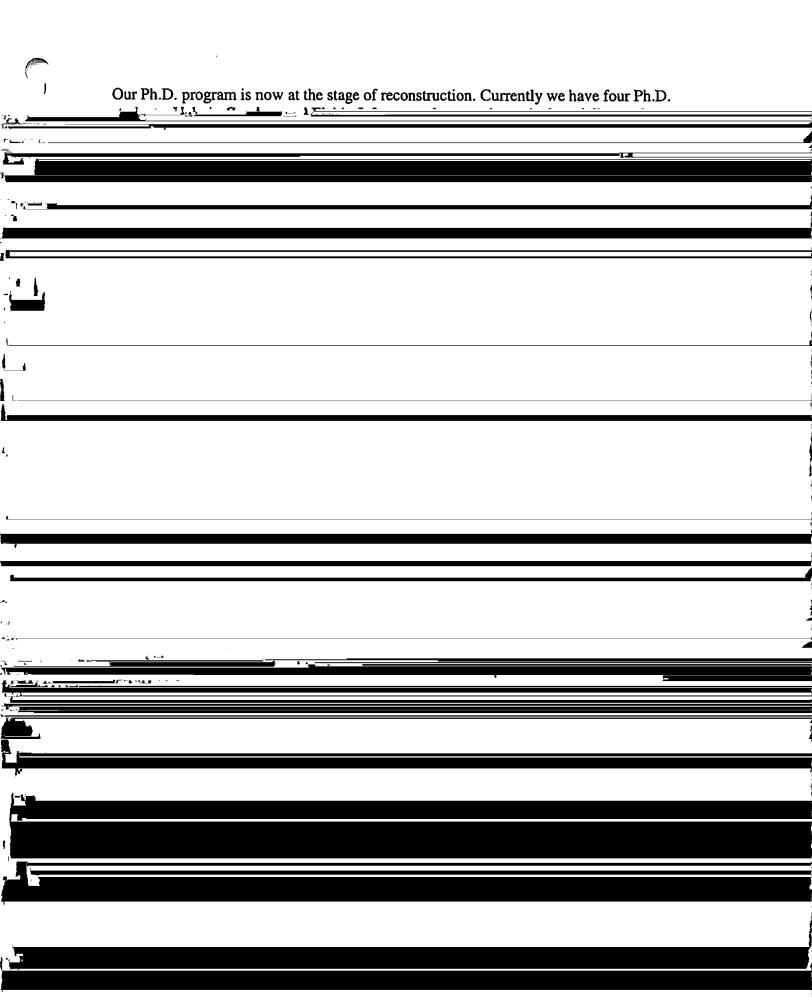
The Outcomes Assessment Report prepared in March 2005 appears on the following pages.





	Math 651 Topology The third exam may be taken from any 600-level mathematics
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	New exams are created for each round of comprehensive exams. Typically the faculty

	III. SUMMARY OF RECENTLY GRADUATED STUDENTS.
,	Below is a complete list of graduate students in our denartment who have graduated since
	1999. We include our expected Spring 2005 graduates. This alphabetical list includes their name, thesis/project title, date (or expected date) of graduation and if they have graduated, we indicate their current position.
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	institutions is more than twice that for UAF. The small size of our faculty makes
	the job of running a graduate program, especially a Ph.D. program, very labor
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## Appendix 5 - Responses to a survey of recent MS alumni

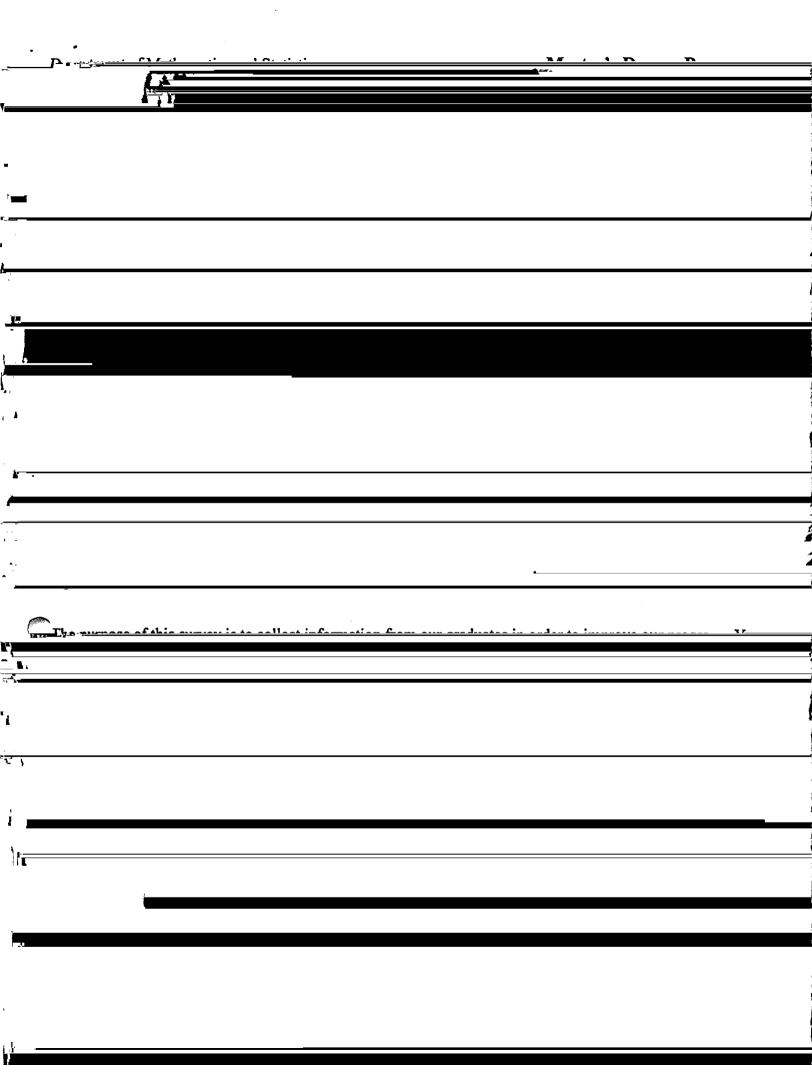
In Summer 2005 an alumni survey was sent to graduates of the M.S. program with graduation dates between 2000 and 2004. (There were no M.A.T. or Ph.D. graduates in this period.) This survey is part of the department's assessment plan (see Appendix 4).

Five surveys were sent and four returned for a return rate of 80%. The responses follow on the next eight pages.

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## Department of Mathematics and Statistics Master's Degree Program

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## Appendix 8 - Current UAF catalog descriptions

B.A., B.S., M.A.T., M.S., Ph.D. Degrees

Minimum Requirements for Degrees: M.A.T.: 36 credits; M.S.: 30-35 credits; Ph.D.: 18 thesis credits

The number of new fields in which professional mathematicians find employment grows continually. This department prepares students for careers in industry, government and education.

The M.S. in mathematics prepares students for Ph.D. work, in addition to providing a terminal degree for those planning to enter industry or education. The M.A.T. degree prepares graduates to teach secondary school mathematics. The aim of the Ph.D. program is to provide the student with the expertise to accomplish significant research in applied or pure mathematics, as well as to provide a broad and deep professional education.

In addition to the major programs, the department provides a number of service courses in support of other programs within the university. Current and detailed information on mathematics degrees and course offerings is available from the department.

The department maintains a math lab for all students studying mathematics at the

The Department of Mathematical Sciences also offers programs in computer science and statistics (see separate listings).

Graduate Program--M.A.T. Degree

- 1. Complete the following admission requirements:
  - a. The department does not require any GRE, but recommends applicants provide GRE general scores.
  - b. Complete and submit a TOEFL score of at least 600 (this requirement is only for foreign applicants who seek a teaching assistantship).
  - c. The department gives preference to foreign applicants who also submit results of the Test of Spoken English (TSE).
- 2. Complete the general university requirements.
- 3. Complete the M.A.T. degree requirements.
- 4. Complete the following: MATH courses\* 18
- 5. Minimum credits required 36



Appendix 9 – Responses to a survey of DMS faculty on the future of Mathematics
On 18 October 2005, one faculty member created the survey which follows and sent it to all tenured and tenure-track faculty in Mathematics. All replied. The replies appear on the next page. They have been made anonymous.
The purpose of the survey was to explore the current state of opinion on our graduate programs and the extent of each faculty member's commitment to each program in terms
of advising students.
A summary of those opinions which are either unanimous, or reflect a maiority opinion in
the department, includes the following:

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P.	whether or not we want a PhD program? (That is, how many permanent PhD-in- Mathematics-possessing tenure-track faculty?)
	I: 12 to 16 such faculty
	II: 15-20 III: 15 IV: 18
	V: The numbers suggested in the mid-teens sound great to me. But this is, in some sense a selfish want and I'm still not sure how big a math department IIAF needs
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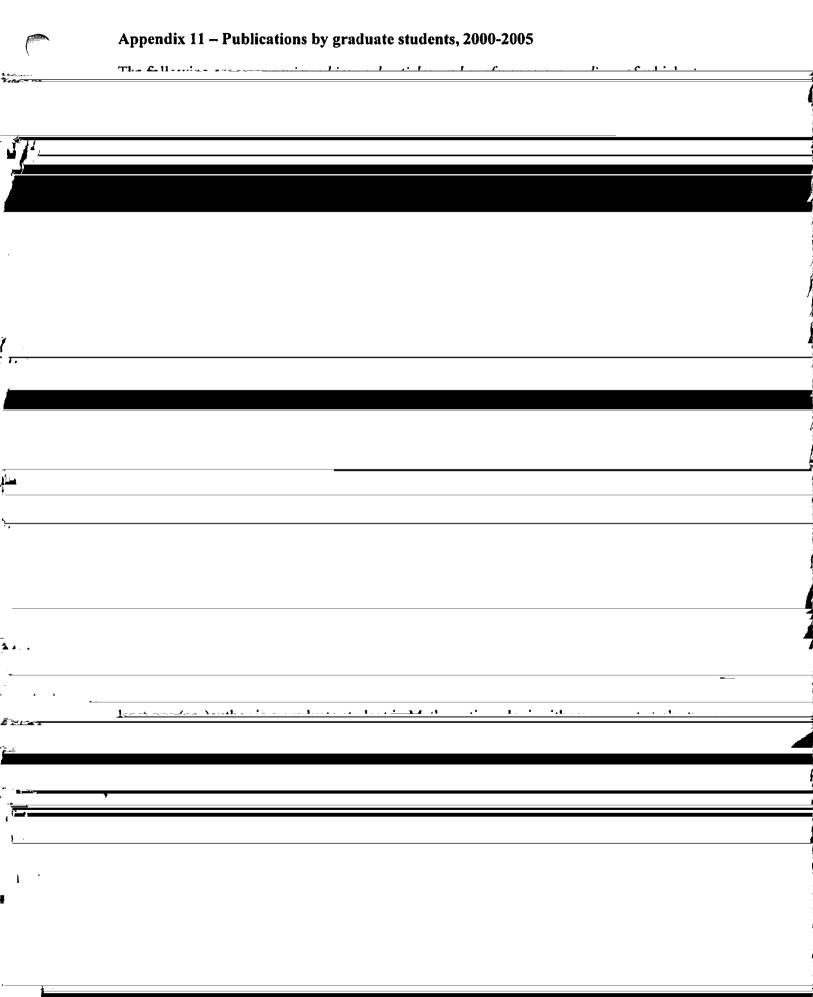
	VII: I think it's best to officially keep it. For some students and advisors it may be effective, and it does keep options open for everyone. The question in my mind is more about how much it should be emphasized.  VIII: Yes. We have some PhD students which are both PhD material and right for our
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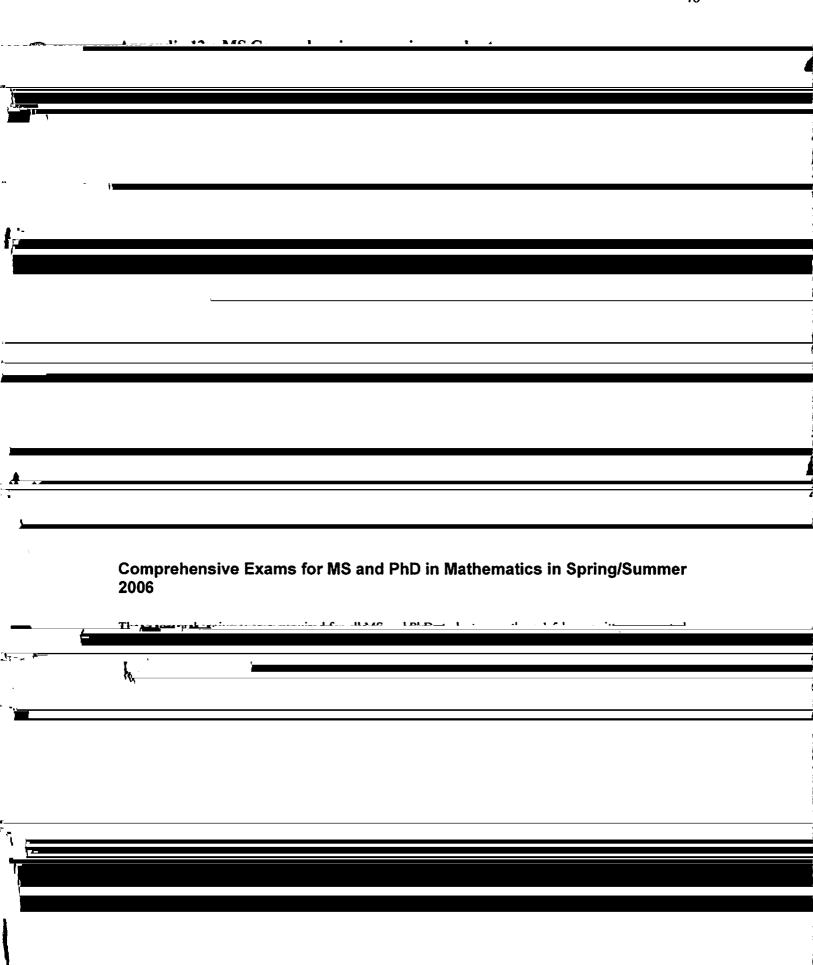
## Appendix 10 – Enrollment in graduate mathematics courses since Fall 2000

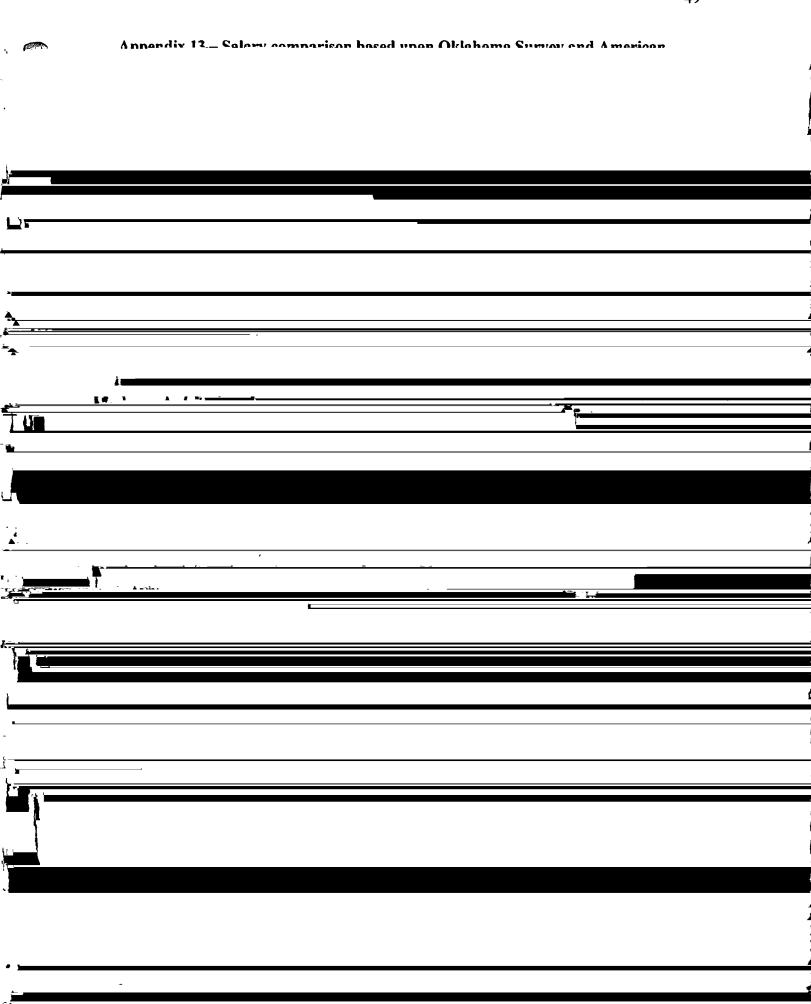
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	Mathematical Sciences, Notices of the American Mathematical Society, Vol. 52, no 2
	(2005), p. 236-251). The AMS is one of several possible sources for this data, but it is
	most appropriate to the largest group of faculty in DMS (namely, tripartite mathematics
	faculty). Here there are three "Groups" of universities to compare to. UAF is part of
	active). There there are three Groups of universities to compare to. OAT is part of
	Group III, which are PhD-granting departments ranked too low (by AMS) to appear in
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