

## **MATHEMATICS**

Total student credit hours have declined somewhat.

The numbers of math majors have declined. Significant decrease in average between lecture class size is noted.

National Research Council ranking of 96th is disturbing.

P. 19 goal 5. Why do the faculty choose to delay implementation of a long term review plan for 5 years?

The Department appears to be active in implementing teaching innovations, including student centered learning.

The request to increase faculty office size will better accommodate research needs and work place parameters of mathematic scholarly activities.

Use of student portfolios in assessments interesting and revealing.

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**TO:** Dean Jaros, Associate Provost for Graduate Studies  
and Dean of the Graduate School

**FROM:** Alicia Skinner Cook, Associate Dean

**SUBJECT:** Department of Mathematics - Graduate Program

The Department of Mathematics offers both the M.S. and Ph.D. degrees.

**Quality of Students:** Based on data provided for two years of the review period, GRE scores of graduate students in the program are shown to have improved over time. They compare favorably with the national pool of applicants in the field of mathematics and with scores for Colorado State University graduate students as a whole.

**Enrollment:** The department has a substantial number of graduate students, with most of its graduate degrees awarded at the master's level. No data are provided on number of applicants to the program. Efforts to increase gender balance in the graduate program have been successful. No mention is made of recruitment efforts or statistics with regard to ethnic minority representation.

**Student Outcomes:** Outcome information is focused on graduates of the Ph.D. program, all of whom are employed. While a few are employed in industry, the majority of students completing the program are in academic positions. Recently, two graduates of the program were selected for prestigious post-doctoral appointments.

**Program Quality:** The department has developed a positive reputation in the area of applied/computational mathematics. Faculty are active in their profession, publishing in professional journals and presenting papers both in the United States and in a large number of foreign countries. It is not clear from the review document the extent to which graduate students work with faculty and have the opportunity to co-publish with them prior to graduation. The department recognizes the need to maintain competitive stipends in order to attract and retain highly qualified graduate students. Contract and grant activity for the department has increased significantly during the review period, benefiting the graduate program and providing student support.