Mathematics SPA Survey

Candidate Name: _____

Note: Your name is requested only for purposes of program evaluation. Your comments will NOT be used in any way to determine your grade. Your comments are requested to facilitate revision of the Teacher Education Program.

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Semester:

① Fall 2008 only
② Spring 2009 only
③ Fall 2008 and Spring 2009

Instructions: Rate the Mathematics Teacher Education program in each of the areas listed.

① Strongly Disagree	② Disagree	③ Agree	④ Strongly Agree	⑤ Don't Know or Unable to Rate

Process Standards (Standards 1-7)

1. I understand and apply the process of mathematical problem solving

① ② ③ ④ ⑤

2. I reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry

① ② ③ ④ ⑤

3. I communicate my mathematical thinking both orally and in writing to peers, faculty, and others

① ② ③ ④ ⑤

4. I recognize, use, and make connections between and among mathematical ideas and in context outside mathematics as well

① ② ③ ④ ⑤

5. I use varied representations of mathematical ideas to support and deepen students' understanding

① ② ③ ④ ⑤

6. I embrace technology as an essential tool for teaching and learning mathematics

① ② ③ ④ ⑤

7. I support a positive disposition toward mathematical processes and mathematical learning

① ② ③ ④ ⑤

Pedagogy Standards (Standard 8)

8. I understand how students learn mathematics and

① ② ③ ④ ⑤

9. I understand the pedagogical knowledge specific to math teaching and learning

① ② ③ ④ ⑤

Content Standards (Standards 9-15)

I am able to:

10. demonstrate computational proficiency, including a conceptual understanding of numbers, ways of representing number, relations among number and number systems, and meaning of operations

① ② ③ ④ ⑤

11. emphasize relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change

① ② ③ ④ ⑤

12. use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and properties

① ② ③ ④ ⑤

13. demonstrate a conceptual understanding of limit, continuity, differentiation, and integration as well as a thorough background in techniques and application of the calculus

① ② ③ ④ ⑤

14. apply the fundamental ideas of discrete mathematics in the formulation and solution of problems

① ② ③ ④ ⑤

15. demonstrate and understanding of concepts and practices related to data, analysis, statistics, and probability

① ② ③ ④ ⑤

16. apply and use measurement concepts and tools

① ② ③ ④ ⑤

Field-Based Experiences

I was given the opportunity to:

17. examine the nature of mathematics

① ② ③ ④ ⑤

18. see how mathematics should be taught and how students learn it

① ② ③ ④ ⑤

19. observe and analyze a range of approaches to mathematics teaching and learning, focusing on tasks, discourse, environment, and assessment

① ② ③ ④ ⑤

20. work with a diverse range of students individually, in small groups, and in a large class setting

① ② ③ ④ ⑤