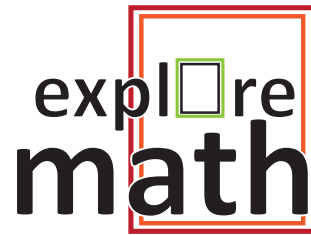


Explore Math Program Application

2011-2012 Academic Year

Application Due: 5pm on Monday, May 16
Return to Becca Thomases (MSB 3124)



Name: _____

Program that you are applying for:

- MME (Fall) Math Circle (Winter) ARML (Winter/Spring)

Position that you are applying for:

- Instructor Director

Citizenship Information:

For funding purposes, are you a US Citizen or permanent resident? Yes No

Teaching Evaluations:

Will you provide us with your past teaching evaluations (please circle and initial)? Yes No

Contact Information:

Phone Number: _____ Email Address: _____

Mailing Address: _____

Degree Information:

- Graduate Program: Mathematics Applied Mathematics
Degree Objective: Masters: PhD

First quarter of attendance: _____

Date (or expected date) you advanced to candidacy: _____

Expected date of degree completion: _____

References:

Please provide two references who can discuss your interest/qualifications for this program.

Reference 1:

Name: _____

Position: _____

Phone/Email: _____

Reference 2:

Name: _____

Position: _____

Phone/Email: _____

Please attach the following items:

1. Teaching Experience

Please describe your previous teaching experience. This may include TAs, AIs, tutoring, or any other teaching positions you have held. (This should not exceed 1/2 page.)

2. Statement of Interest

Please tell us why you are a good candidate for the Explore Math program. You may include any important previous experiences that have prepared you to work with high school students as well as your expectations for working with high school and undergraduate students. (This should not exceed 1/2 page.)

3. According to the program you are applying for, please include the following:

Math Modeling Experience (Fall)

- (a) Describe one lesson each for the MME undergraduate seminar and the high school Saturday workshop. If you choose the same topic for both, describe how you would adapt the level of mathematics to high schoolers (precalculus or lower), and to undergraduates (calculus to ode's and linear algebra).
- (b) Describe how you would use undergraduate assistants in teaching your high school lesson.

Math Circle (Winter)

- (a) Describe a topic that you are interested in teaching for the Explore Math program. Provide a brief description of the topic and why you think it is appropriate for Math Circle. Also include an explanation of how you plan on teaching the topic : lecture, exploratory activities, group work, etc.
- (b) Please choose a specific concept/activity from your topic and describe how you would teach it to the high school students (i.e. part of your lesson plan). Also include a description of how you would use/include your undergraduate TAs in this lesson.

ARML (Winter, Spring)

- (a) Describe how you would use undergraduate assistants to help develop high school students' problem-solving skills.
- (b) Describe any math problem-solving experience or math competition experience you may have.

**If you have any questions, contact the Explore Math Faculty Adviser
Becca Thomases: thomases@math.ucdavis.edu**