1. Name Bradshaw Robert Initial

2. Present Assignment Math Professor

3. Number of Years of Full-Time Consecutive Service at Ohlone College 25

4. Time period requested for this proposed leave. (Give inclusive dates): Fall semester 2011

5. Please check which of the following methods you will use to meet the criteria for a sabbatical. Note that "E" is a combination of two or more of the first four.

[ ] A. Advanced Academic Study: In your statement in Item 7, include a detailed description of the course of study or research project to be undertaken. A letter of acceptance from the institution to be attended or a letter of acceptance from the individual who will direct the study needs to be forwarded to the committee prior to the commencement of the sabbatical.

[X] B. Independent Research or Study: In your statement in Item 7, include a detailed resume of the study or project to be undertaken.

[ ] C. Travel: In your statement in Item 7, include a comprehensive itinerary of your travel plans.

[ ] D. Employment: In your statement in Item 7, include a complete description of the duties to be performed during the period of employment. Give the inclusive dates of the period of employment. Attach a letter from the employer which confirms the employment and states the salary to be earned.

[ ] E. A combination of the above activities: In your statement in Item 7, explain carefully how the activities are related and the special results that can be expected. Describe in detail the combination plan in which you are interested.

[ ] F. Other.

6. On a separate page, write an abstract of this proposal—not to exceed 200 words. This abstract will be presented to the Board of Trustees if this application is recommended for approval.

7. Narrative Description of the Proposed Program—not to exceed five pages. Provide comprehensive information about the type of program you selected in part 5. Include detailed information showing how the proposed program will aid or improve the execution of your assigned professional duties and the specific benefits to be accrued to the division/department, district, and students. Explain why a sabbatical leave, rather than other approaches, is required to accomplish the stated purpose. Disclose all information relative to any compensation you will receive during the leave period, other than expense reimbursement, whether from employment, grant, fellowship or any other source which is an integral or related part of the leave program.
To Be Completed by Division Dean before the Application is Submitted:

[ ] I support this application    [ ] I do not support this application

Comments: Two very worthwhile projects!

Signature of Division Dean

I submit this application with the understanding that I shall be bound by the policies and regulations of the Fremont-Newark Community College District and the Laws of California relating to the granting of Sabbatical Leaves of absence.

1/4/2011

Date

Signature of Applicant

----------------------------------------------------------------------------------------

FOR COMMITTEE USE ONLY

[ ] Recommended    [ ] Not Recommended

VPI

CHAIR

----------------------------------------------------------------------------------------

To those applicants whose proposals are not recommended:

[ ] Due to the intense competition this year, your proposal was not approved. Please consider re-applying in a future year.

[ ] If you wish to resubmit this proposal in a future year, it will require revision in order to show that it meets the following criteria as listed on page one:

[ ] A    [ ] B

----------------------------------------------------------------------------------------

[ ] Recommended    [ ] Not Recommended

Comments:

Signature of Superintendent/President

----------------------------------------------------------------------------------------

[ ] Approved    [ ] Not Approved

Action taken by Governing Board

- 3 -
To: Dr. Jim Wright  
From: Bob Bradshaw  
Re: Application for Sabbatical  
Date: January 10, 2011

I request to be granted a sabbatical for the Fall 2011 semester. The purpose of the sabbatical is two-fold:

- Update the textbook for the Math 155 course.
- Create a set of notes for my Calculus III course

**Background regarding Math 155**

In 2006, Professor Ron Staszekow and I co-authored a text, *The Mathematical Collage*, for use in the newly created course, Math 155 Math for the Associate Degree. The text was custom published through Thompson Publishing. However, we have decided to withdraw the book from the publisher and to make the complete text freely available via the internet. This method of delivering the course material will begin in the Spring 2011 semester using pdf files of the published text.

The existing book needs to be updated in two respects.

- The content of the text requires updating to fix errata and to replace outdated information.
- The original pdf files were designed for a traditional print format. While these files are functional, the text can be substantially improved by making it available in multiple formats, designed specifically for print, iPhone, iPad, and computer screen.

**Background regarding Calculus III**

Since Fall 2006, I have been writing homework sets for my courses at the level of Precalculus and higher. For the Precalculus course, I have also created a set of class notes that has substantially reduced the students' cost of taking the course. As the second part of the sabbatical proposal, I intend to write a similar set of notes for Calculus III.

Unlike the Precalculus course, I believe that, in order to succeed in the Calculus III course, students need to own and read a Calculus book. I feel a set of notes is appropriate for this course because of two reasons.

1. Students enrolled in Calculus III are often students coming from other schools where they have used a different Calculus text. I see no reason why these students should be required to buy a expensive second text with the same content. This set of notes will allow the students to use Calculus books from other schools while still having written material that specifies the emphasis of my course.

2. Many of the students in Calculus III have a non-English speaking background and have a difficult time reading technical material. However, these students are willing to work very hard. Creating a set of notes that supplements the text will provide these students with an additional path to understanding.
Goals of the Sabbatical

By the end of the Fall 2011 semester I will

- Update the Math 155 text, working with the current instructor of Math 155 so that all changes and improvements are incorporated into the next version of the text.
- Create a set of notes for the Calculus III course.
- Provide the Math 155 text and the Calculus III notes in multiple electronic formats.
- Make the material freely available via the Ohlone College website.

The goals of this sabbatical directly address the following criteria from the Sabbatical Leave Application:

B1: Updating existing existing courses
B3: Improved instructional methodology