

Dear Sabbatical Committee,

I am interested in a sabbatical leave during the 2025-2026 school year. I teach Math V44 Elementary Statistics with support for our incoming students who have lower high school GPA's and who have struggled with math courses in the past. Many of these students have classroom trauma and a very low self esteem in mathematics and statistics. I hope to continue to work with these students and to seek out methods and strategies that will allow them to be more successful and that is why I am writing this application.

The project that I would like to work on is three fold. First, I would like to study hands-on and engaging lessons that take place in and out of the classroom that will draw student interest. Some of the ways I plan to do this is to attend conferences, trainings, collaborations, classroom visitations at both the community college and the university, collaborate with other innovative instructors and/or statisticians in the field, both public and private. It is very likely there will be some degree of travel involved.

Secondly, there is some degree of exploration so that I can get my creative juices flowing. We are very lucky to live near the California coast and see the many beauties that it offers us daily. Unfortunately, with climate change, pollution and other issues that we have seen negatively affecting our ecosystem, we have some large problems to solve. My plan is to engage our students in real life collecting data so that we can better analyze and work together or gain insights into solving these larger problems. In mathematics, we spend most of our time solving problems that have already been solved. Whereas in statistics, we have the ability to engage students to question and start to solve the problems that our communities are facing now and in our future.

Lastly, I need to create the classroom materials. So as you can see, we have much work to do to prepare this work so that it lines up with our curricular objectives and is student friendly. I have been teaching statistics for several years now and so I would like to create lessons on confidence intervals and hypothesis tests that would allow for students to do real life statistics during the semester.

I am sure this will be a fantastic learning experience for me and will benefit our students. I love when I can answer their famous question, "When am I ever going to use this in life?" This plan and the possible outcomes will benefit our Ventura College students and hopefully positively impact the world we live in as well.

Thank you for your consideration!

Kindly,
Carlos M. Hurtado

Addendum:

Conferences:

CMC South, Palm Springs, CA, November 2025

51st AMATYC Conference, Reno, NV November 2025

Workshops:

Rossman Chance Workshops for Statistics

Collaboration:

Dr. Jeff Sklar Ph.D Cal Poly SLO

Dr Isaac Quintanilla Salinas CSUCI

Santa Rosa Island Research Station

Courses:

Statistics With Python (Michigan Online)

The Power of Statistics (Google Online)

Statistics and Data Analysis with Excel

Demo:

Gradarius Math Software

Create Lessons for Math V44 and Math V44J:

Empower Students and Families

Focus on Inferential Statistics

Online Canvas and in Person

Hands on lessons

Data Collection

Improve Soft skills: Communication, Collaboration, Leadership, Problem Solving, Time Management, Teamwork

Prepare students for Business, Finance, Leadership, Research, and Presentations

Write a Business Plan

Entrepreneurship

Benefits to College and District:

Students learn by doing Statistics

Student preparation for work, business, graduate school, and research

Faculty share and collaboration during Flex days

More fun to teach and more fun to learn!