ES 25 is an introduction to quantitative thinking designed for BA Environmental Studies majors. Students will improve their ability to deal with quantitative aspects of environmental topics, including data analysis using Microsoft Excel.

We will cover environmental issues relating to subjects such as agriculture, climate change, ecology, energy, environmental economics, pollution, and water resources. The course will draw on recent news, real data sets, case studies, and interactive learning techniques to stimulate interest in quantitative thinking.

The main goal is to impart to students the ability to apply quantitative analysis comfortably when dealing with environmental topics. This includes the ability to find environmental data, organize and analyze it, create visual representations to communicate important or relevant patterns, and offer interpretations of such visualizations. I hope that you’re able to utilize your new skills in your other classes and in your careers.
Lectures
North Hall 1006
Tuesday/Thursday 12:30-1:45

Labs
One Microsoft Excel Lab per Week (section times vary)

Instructor
Quentin Gee, PhD
- Bren 4005 (Floor 4-L in Bren Hall)
- Office Hours Posted on Gauchospace
- gee@ucsb.edu

Put “ES 25” in all emails directed to me
## Teaching Assistants

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Office Hours</th>
</tr>
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<tbody>
<tr>
<td>Taylor Briglio</td>
<td><a href="mailto:tbriglio@bren.ucsb.edu">tbriglio@bren.ucsb.edu</a></td>
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<td>Office Hours Posted on GS</td>
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## Lab Facilitators

Facilitators play a vital role in helping you develop your Excel skills and follow along with the lab. Facilitators are previously excellent ES25 veterans who can help you. They will also hold “Excel Help Hours” where they can help you work on Excel issues (but not the quantitative elements in the course that go beyond Excel)

- Brendan Abatecola                  Drop-in Hours/Location Posted on GS
- Emmanuel Alcantar                  Drop-in Hours/Location Posted on GS
- Camila Aristizabal                 Drop-in Hours/Location Posted on GS
- Ana Ascher                         Drop-in Hours/Location Posted on GS
- Gillian Fennessy                   Drop-in Hours/Location Posted on GS
- Lauren Lankenau                    Drop-in Hours/Location Posted on GS
Readings and Workbook

• The course workbook can be purchased from AS Publications/Ticket Office (near Corwin Pavilion). This workbook is required, and contains problems and materials that will be actively used in lecture and lab. You must bring the workbook to all class sessions.

• Readings will be posted on GauchoSpace. See https://gauchospace.ucsb.edu

• Recommended Reading: *Calculus and Mathematical Reasoning for Social and Life Sciences* by Daryl Cooper – Available at the UCEN bookstore, in the ES lounge and the library’s reserve book room. This is the same book required for Math 34A &B. It will be a useful reference tool for the course.
Items Required During Lecture

• A pencil
• Your Workbook
• A scientific or graphing calculator
• A ruler
• An i>Clicker

Syntheses and Online Checks

Homework is a large part of this course, but weighted in a way that it usually improves student grades if they do not do well on the test. Each week you will have a written synthesis assignment that requires analysis of the previous week’s Excel lab and an application of concepts we have learned in class.

Late synthesis assignments will be accepted for a penalty, but will NOT be accepted beyond 2 weeks past the original due date.

There are also weekly online checks that will be posted on Gauchospace. They will cover questions from the workbook, general conceptual questions, and questions regarding the reading assignments.
i>Clickers

i>Clickers will be used to take attendance as well as enhance student participation and comprehension of key issues. Here are key policies and factors to keep in mind regarding i>Clickers.

➢ Leaving lecture early or arriving late may affect your i>Clicker score, as there is no guarantee of how many i>Clicker polls there will be, or at what time the polls will occur during lecture

➢ ONCE (1) during the quarter if you arrived a bit late, forgot your clicker, or otherwise were unable to participate in all of the polls, you may come up to me at the end of class and check-in to earn complete i>Clicker activity for the day

➢ In addition to your single check-in, I will drop your two (2) lowest days of i>Clicker activity, including zeroes (e.g., absences)

➢ **DO NOT ASK FOR ADDITIONAL EXCEPTIONS**
Exams

Bring rulers and a scientific/graphing calculator to the exam. Exams will be closed book and closed note, and will require both mathematical calculations and written analysis of data. You cannot use a cell phone or other multifunctional media/communications device (i.e., iPod Touch) as a calculator during tests. Pertinent formulas that are difficult to memorize will be provided. The Final will be cumulative, but will emphasize topics from the last portion of class. It will be a little longer than the midterm.

Grading

i>Clicker and Attendance 10%
Weekly Online Checks 10%
Synthesis Assignments 20%
Midterm 25%
Final 35%
Academic Integrity Statement

We treat you as adults who are honorable people. If special problems come up, see me, ASAP.

Academic dishonesty assaults the basic integrity and meaning of a University. Cheating, plagiarism, and collusion are serious acts that erode the University’s educational role and debase the learning experience not only for perpetrators, but also for the entire community. It is our expectation that students in ES105 will understand and subscribe to the ideal of academic integrity and that they will bear individual responsibility for their work. Materials (written or otherwise) submitted to fulfill academic requirements must represent a student’s own efforts. Any act of academic dishonesty attempted by any UCSB student is unacceptable and will not be tolerated. This does not mean you can’t talk about your collaborate with other students and brainstorm, etc., but when it comes to doing your work, it must be your own. We encourage Students, TAs and Faculty to interact as much as possible on academic subjects of mutual interests.