Statistics Summer Course for Beginning Teachers

The North Carolina School of Science and Mathematics (NCSSM) will offer a 3-week Summer Course in Statistics, July 8-26. This summer course is designed for beginning teachers of AP Statistics and will be taught by the NCSSM faculty: Gloria Barrett, Floyd Bullard, Julie Graves, Carol O'Dell, and Dan Teague. Our goal is for teachers to engage in the entire AP Statistics experience, including the activities, homework assignments, and projects we give our students. The topics in the summer course will go somewhat beyond the content of AP Statistics. After completing the course, participants will be prepared to answer student questions that extend beyond the AP syllabus.

The cost for the 3-week program will be $800. A $100 deposit is required with the registration form. The cost of the program will pay for housing in the NCSSM dorms for the 3 weeks, breakfast, lunch, and dinner each week day and breakfast and lunch on Saturday, the text (Statistics and Data Analysis by Peck/Olsen/Devore), and statistical software (JMP-INTRO).

During the three weeks of the course, participants will be in class 6 hours a day, with homework in the evening. It will be an intensive summer program. One of the NCSSM faculty will be available for homework assistance each weekday. We will also have class on Saturday morning. As much as possible, we will make the day active, but we all know there will be a significant amount of “seat time” as well. At the end of the summer, participants will be assigned an NCSSM teacher as a mentor to answer questions over e-mail as they teach statistics at their home school.

Rationale for a 3-week Institute:

There are many excellent workshops for beginning statistics teachers offered across the country. Most are one week (or shorter) workshops that either offer an overview of the course, or focus on several of the more important or more difficult topics. For teachers who have good control of the material, but need help with one or two areas, these workshops will be a better fit than our summer course. In many conversations with beginning teachers, all have valued these workshops, but some feel that they are missing a “sense of the whole”. They know the individual pieces of the course, but don’t see how it all fits together. This course is designed to teach all the topics and show how they fit together. Although three weeks is a long time away from home, we believe seeing the course in its entirety will be more helpful to beginning teachers than a series of shorter workshops spread over several summers.

At NCSSM, we teach two levels of statistics. One level covers the AP curriculum using an activity-based approach. The second level is designed for students who have had or are currently taking calculus. This course has the same activity-based approach to the AP curriculum, but also includes a more mathematically sophisticated approach to the course, includes some of the theory behind the computations, and includes some topics that go beyond the AP syllabus (multiple regression, one and two-way ANOVA). We believe this second course will be the more valuable to beginning teachers and we plan to teach this course to the participants.

To Register for the Summer Course, print out the form below and send the completed form and a $100 check to the address at the bottom of the form. The check should be made out to NCSSM.
Statistics Summer Course for Beginning Teachers
July 8-26, 2002

The North Carolina School of Science and Mathematics
Durham, NC

Registration Form

Name __________________ __________________
First Name         Middle Initial         Last Name

Gender     Male     Female

School Name

School Address

School Phone

e-mail

Home Address

Home Phone

Complete and mail this Registration Form and $100 check payable to NCSSM to:

Dan Teague
NCSSM Summer Statistics Program
1219 Broad Street
Durham, NC 27705

If you have questions about the program, please contact Dan Teague at teague@ncssm.edu