

1106-M5-2501 **Judith E Canner*** (jcanner@csumb.edu), 100 Campus Center, Seaside, CA 93955. *How R You Using Statistics? Connecting the Second Statistics Course to Multiple Disciplines through Projects.*

Advanced statistics methods and the use of a statistics program often comprise the second course in statistics. Though a professor can vary example contexts, students need independent research experiences within their field of study to comprehend the true landscape of statistical investigation. I will overview the general course content of our second course, the use of R programming language within the course, and the preparation of students to learn new statistics methods and new R programming methods independent of classroom instruction. I will then discuss the use of a semester-long project to provide students with experience in statistical investigation and to assess their ability to apply their knowledge beyond the classroom experience. I will provide examples of how students broker relationships with other faculty or researchers in their fields to define a research question and evaluate provided data to produce a publication-ready paper. I will provide instruction on the necessary structure for the project, including benchmarks for progress throughout the semester, mentorship responsibilities of the professor and potentially other faculty, the allowance of co-authorship, and the final assessment of student work. (Received September 16, 2014)