Investigation 1.13B: Sampling Students
Suppose that you want to take a simple random sample of 100 students from the population of all Cal Poly students.

a) Describe what would be involved in selecting such a simple random sample.

An easier sampling method to implement would be to stand in front of the library and select 100 students who pass by.

b) Would this sampling method produce a simple random sample? Explain.

c) Would this sampling method be biased if the variable of interest was how often the student uses the library?

d) Re-answer c): What if the variable were whether the student has attended a sports event this quarter? What if the variable were whether the student favors changing to the semester system?

e) Do the students in our class qualify as a random sample from the population of all Cal Poly students? Explain why or why not.

f) Identify a variable for which you would feel comfortable using the students in our class as representative of the population of all Cal Poly students. Also identify a variable for which you would not feel comfortable doing this.