* 1. A statistics class contains 35 students: 11 undergrads and 24 grad students. Of

the undergraduates, 4 are female and 7 and male. Of the grad students, 5 are female and 19

are male.

(a) I randomly select a student from the class. Given that the student I select is a male,

what is the conditional probability that they are an undergraduate?

* + **There are 7 male undergrads and 19 male grads for a total 26 males. Therefore, the conditional probability of selecting an undergraduate (A) given that the student is male (B) is P(A | B) = 7/26.**

(b) I randomly select two students from the class, without replacement, in order. Given

that the first student I select is a grad student, what is the conditional probability the

second student I select is an undergraduate?

* + **There are** **11 undergrads and 24 grad students. The probability of selecting a grad student on the first choice is 24/35. The probability of selecting an undergrad on the second choice (without replacement) is 11/34.**