AMAT 327(Z): Elementary Abstract Algebra, Spring 2012 Quiz # 18, April 10

Name: .....

- Please complete the following definition: a relation $\sim$ on a set S is an *equivalence relation* if

- Let S be the set of all current UAlbany students. For $x, y \in S$ define $x \sim y$ if and only if there is at least one course this semester in which both x and y are enrolled. Is it true or false that $\sim$ is an equivalence relation on S? State explicitly which axioms hold and which ones (if any) fail.