• 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.