

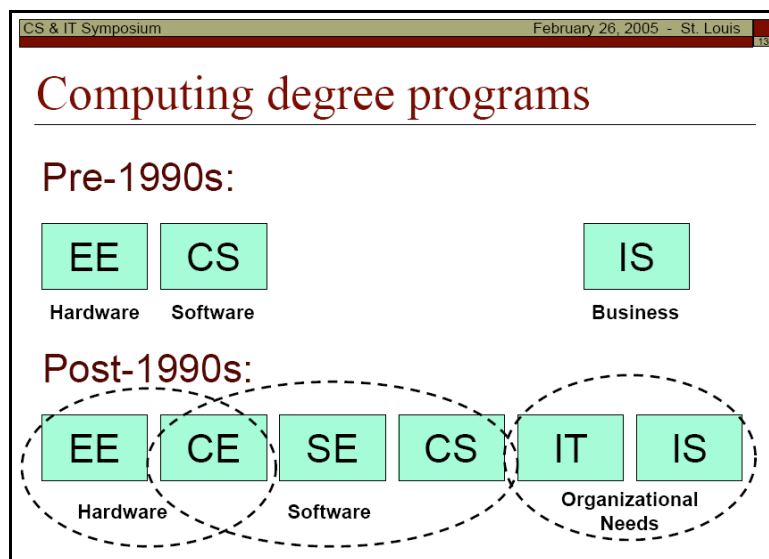
These diagrams help explain the differences between Computer Science and other computer-related disciplines.

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How computing education changed

Computing has become a family of disciplines

- Before the 1990s:
 - **Computer Science** on the tech side
 - **Information Systems** on the business side
- During the 1990s:
 - **Computer Engineering** became a strong discipline
 - **Software Engineering** became a strong area within CS
 - **Software Engineering** began to form its own identity
 - **Information Technology** programs began to emerge



Note that the relative space between each discipline is indicative of the relative level of communication between them. Also note that IS is *Information Systems*, not *Information Science*, which is actually a branch of library science. IS in the sense used here is really the same as MIS, which stands for Management Information Systems.

Source: Shackelford, R. (2005). Why can't smart people figure out what to do about computing education? *International Society for Technology in Education Computer Science and Information Technology Symposium*, June 26, 2005, Philadelphia, PA. Slides available from: http://www.iste.org/Content/NavigationMenu/Professional_Development/Programming_at_NECC/Symposia/Computer_Science/2005/February2/Speaker_Presentations/shackelford-computing-ed.pdf

Note: Russ Shackelford has been Chair of the ACM Education Board (2005) and the ACM Joint Task Force on Computing Curricula (2004).