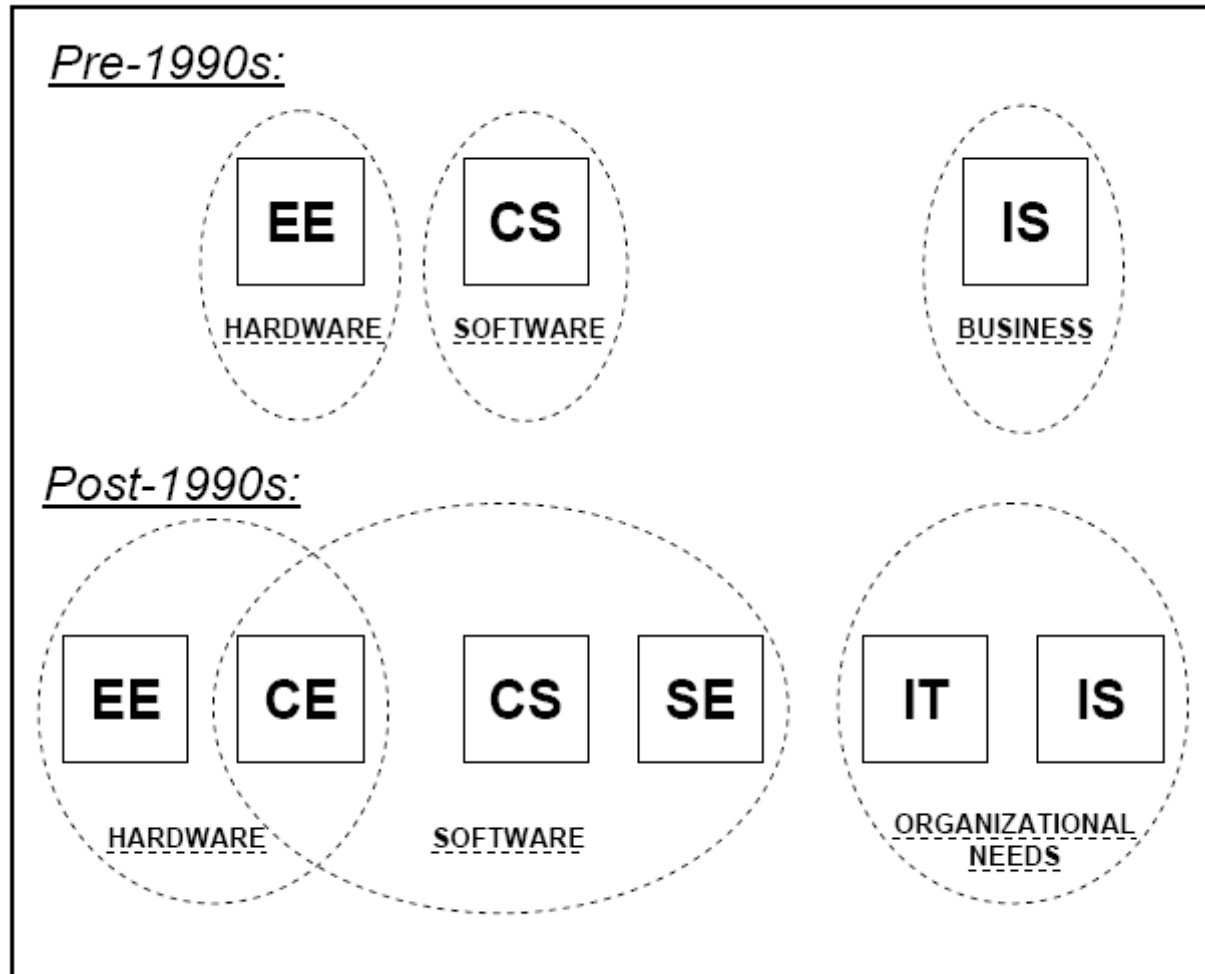# Computer Science, Computer Engineering, Software Engineering, and Business Information Systems

Dr. Donna Reese

Department Head

Computer Science & Engineering

So What's The Difference??

Relationship Between Majors

Pre-1990s:

EE — HARDWARE
CS — SOFTWARE
IS — BUSINESS

Post-1990s:

EE | CE — HARDWARE
CS | SE — SOFTWARE
IT | IS — ORGANIZATIONAL NEEDS

http://www.acm.org/education/education/curric_vols/CC2005-March06Final.pdf

CS Conceptual Snapshot

Figure 2.4. Computer Science

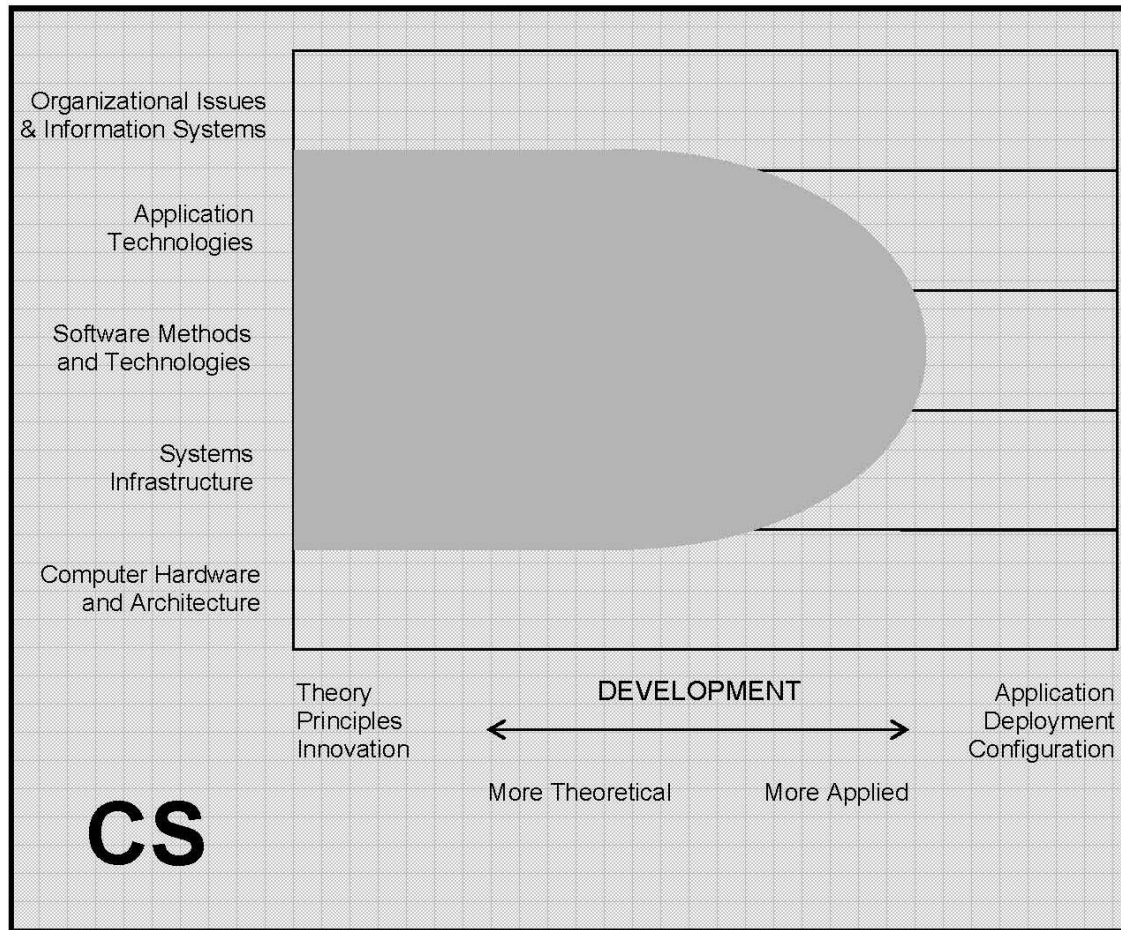http://www.acm.org/education/education/curric_vols/CC2005-March06Final.pdf

2010-11
CS Degree Requirements

- Communication Skills   12
- Fine Arts, Humanities, Social Sciences   21
- Natural Sciences   14
- Mathematics   18
- Technical Electives   3
- Computer Science   53
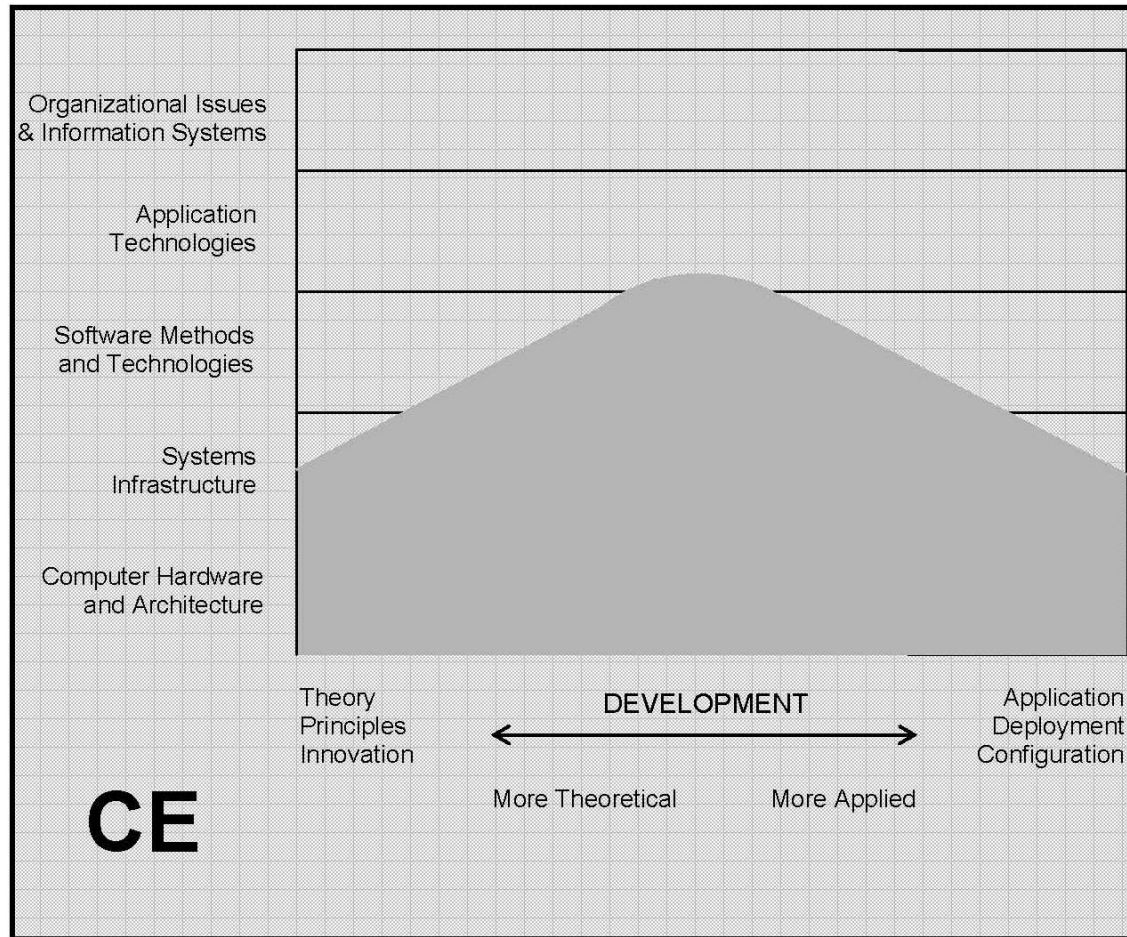- Free Electives   7
- Total Hours   128

CPE Conceptual Snapshot

Figure 2.3. Computer Engineering

http://www.acm.org/education/education/curric_vols/CC2005-March06Final.pdf

2009-10
CPE Degree Requirements

- Communication Skills   12
- Fine Arts, Humanities, Social Sciences   15
- Natural Sciences   10
- Mathematics   21
- Electrical Engineering   40
- Computer Science   24
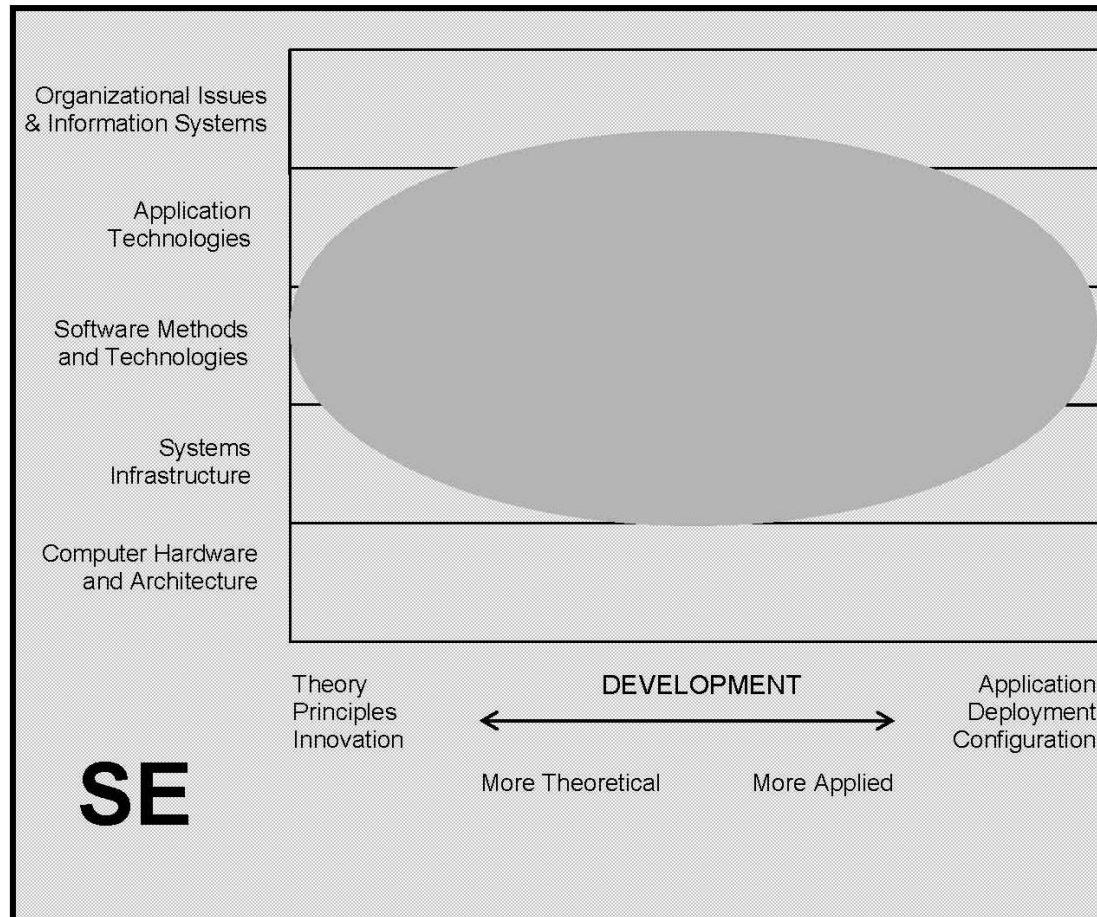- Electives and other Engineering topics   6
- Total Hours   128

SE Conceptual Snapshot

Figure 2.7. Software Engineering

http://www.acm.org/education/education/curric_vols/CC2005-March06Final.pdf

2010-11
SE Degree Requirements

- Communication Skills   12
- Fine Arts, Humanities, Social Sciences   15
- Natural Sciences   14
- Mathematics   18
- Computer Science & Engineering   37
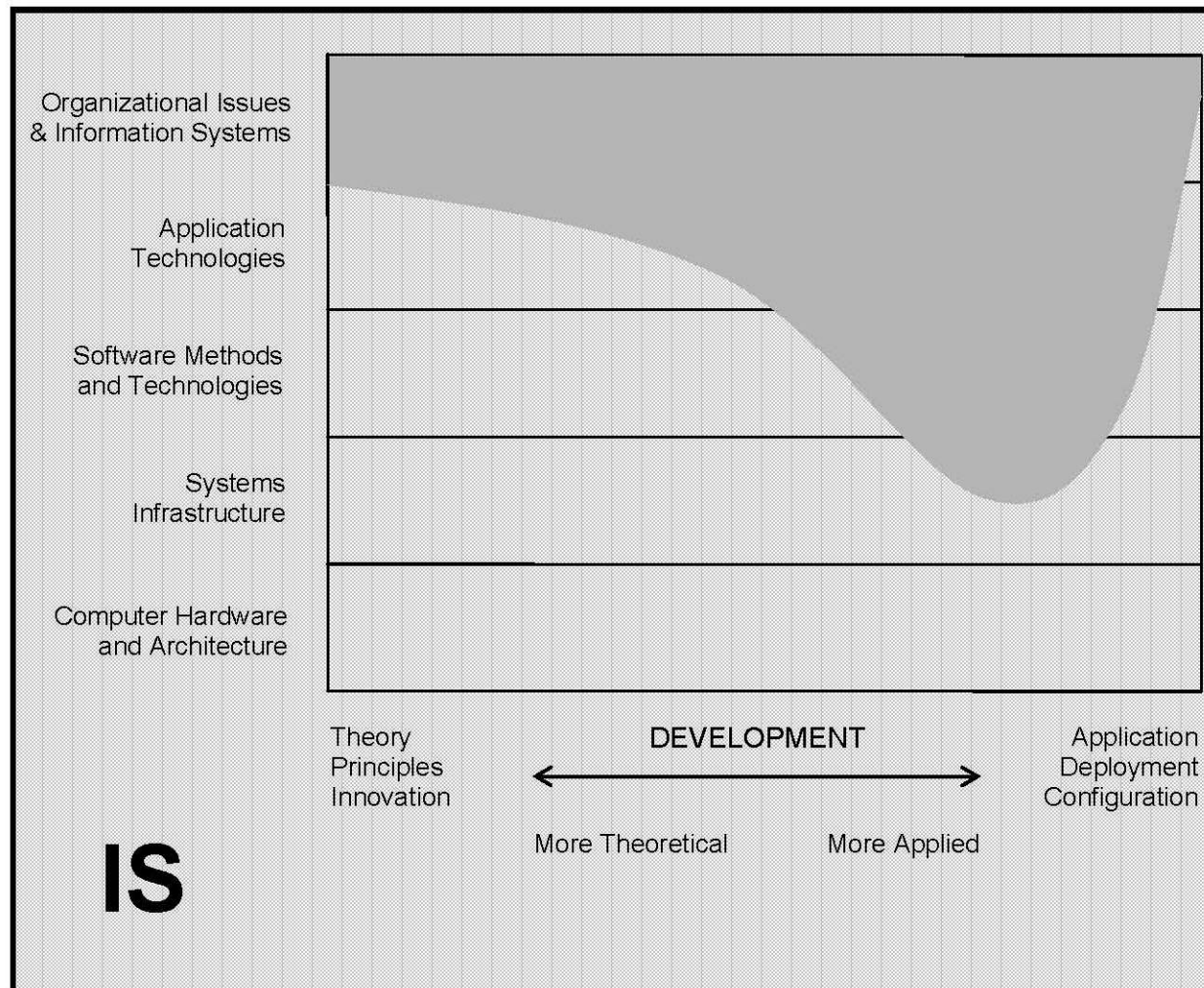- Software Engineering   29
- Free Electives   3
- Total Hours   128

IS Conceptual Snapshot

Figure 2.5. Information Systems

http://www.acm.org/education/education/curric_vols/CC2005-March06Final.pdf

10

2009-10
BIS Degree Requirements

- Communication Skills   12
- Fine Arts, Humanities, Social Sciences   15
- Natural Sciences   6
- Mathematics   9
- College of Business Core   37
- BIS Core   29
- Computer Science Elective   3
- Non-business computer elective   9
- Free electives   4
- Total Hours   124

Contact Information

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