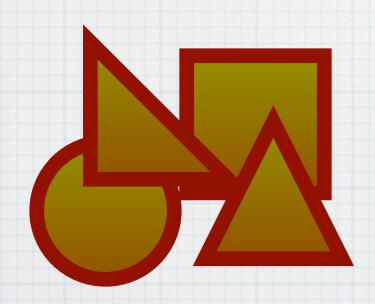
# CS630 Object-Oriented Systems Analysis and Pesign

Les Waguespack, Ph.D.



Orientation

### We Are Here 1

Course Title: Object-Oriented Systems Analysis and Design

Course Pescription:

This course prepares the student for systems development in the objectoriented paradigm. Students learn the theory and methods of the objectoriented modeling and the fundamentals of object-oriented development process models. The focus is on requirements analysis, systems analysis and domain analysis, and their documentation with standard object-oriented specification tools (particularly the Unified Modeling Language). Hands-on projects give the students an opportunity to practice their modeling skills and illustrate an effective integration of various modeling techniques throughout an iterative, object-oriented software project life cycle.

Prerequisites: CS 603 and CS 605

Texts:

UML Distilled, 3rd, Fowler, Addison Wesley; ISBN 0-321-19368-7

All Course Materials may be accessed at CIS.Bentley.EDU/LWaguespack

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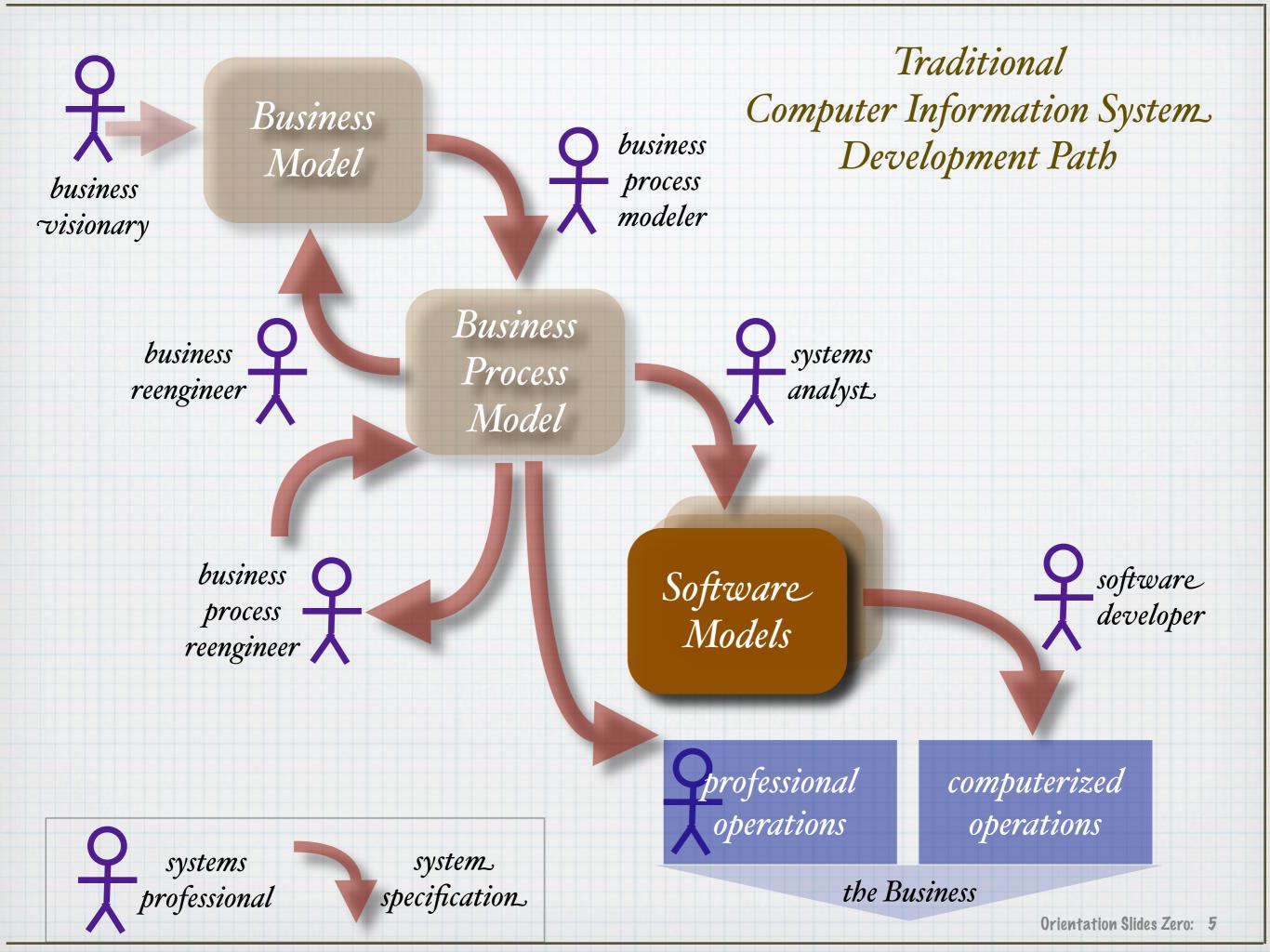
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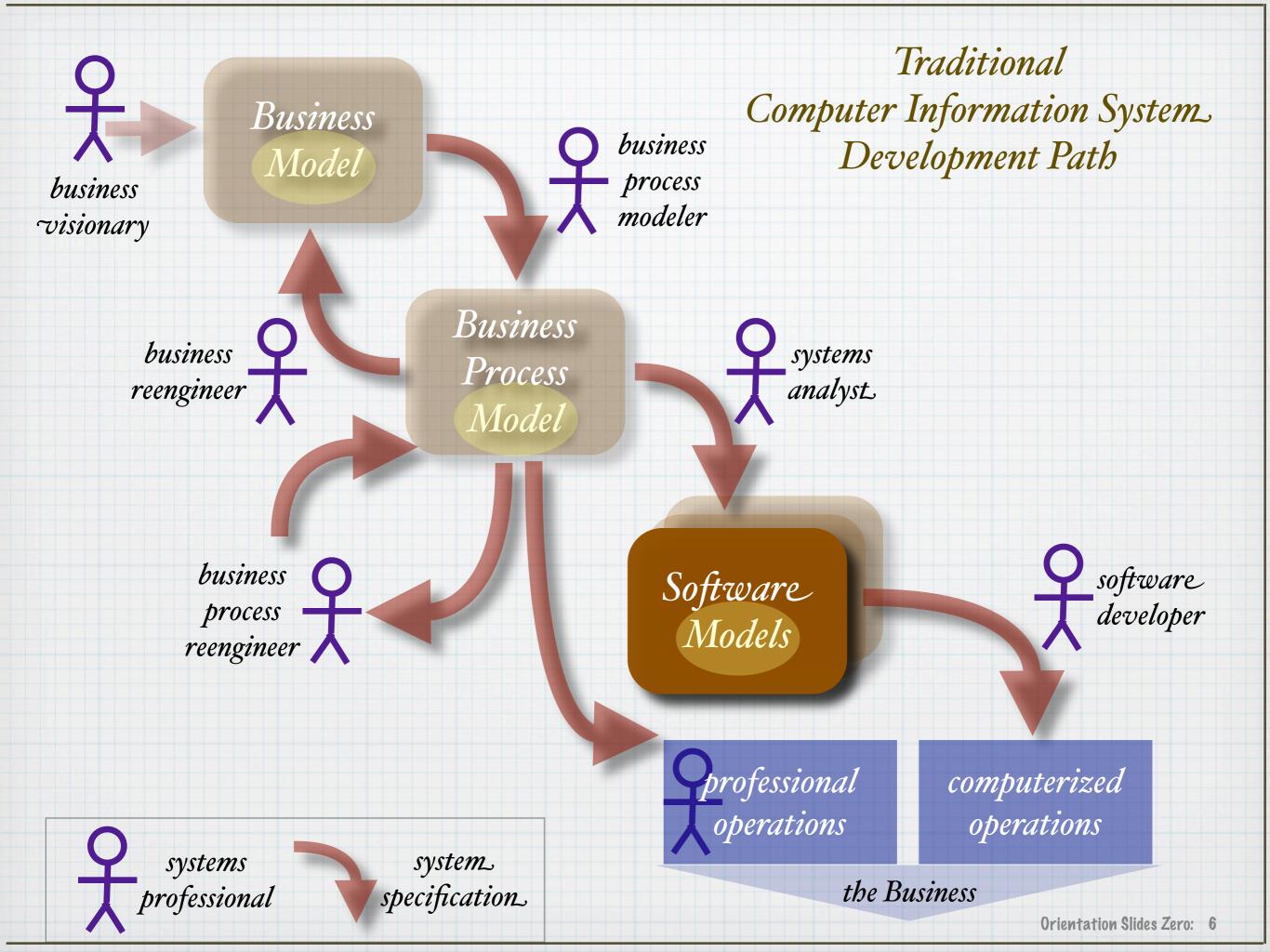
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### What's Not Here!

- \* You cannot become a fully competent modeler using UML-2 in one semester!
- \* This is a graduate academic course rather than a training course.
- \* Modeling in UML-2 is used to explore the 00 paradigm to reach understanding.
- \* The focus is on the architect rather than the carpenter!





## Agenda

#### \* Modeling in UML-2

\* what is 00 modeling and UML-2 as the tool.

#### \* Requirements Engineering

\* what needs to be modeled and why?

#### \* Object-Oriented Database Review

how do 00 and ER relate?!

#### \* Object-Oriented Systems Engineering

why choose to use the 00 paradigm for systems?

#### \* Object-Oriented Systems Pesign

why do we make any particular modeling choices in designing systems?

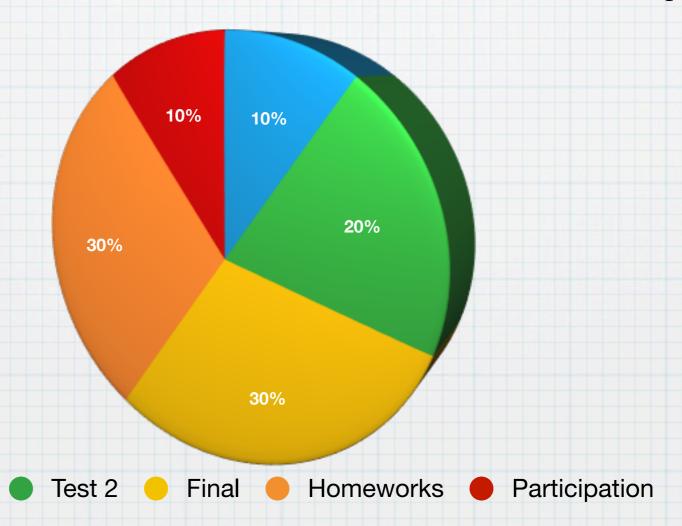
### Administration

Grading Scale: 100-95:A, 90-94:A-, 87-89:B+, 83-86:B, 80-82:B-, 77-79:C+, <77:F

Grade Component Weights:

Test 1

Test 1:10%, Test 2:20%, Final: 30%, Homeworks: 30%, Attendance & Participation: 10%



# Synchronization

- \* course overheads will be made available 36 hours prior to class via the course website: cis.bentley.edu/lwaguespack
- \* EMail may be sent to LWaguespack@Bentley.edu
- \* include "CS630" in the subject line
- \* Makeup exams are not possible without prior arrangement
- \* Absences are assumed to reflect a lack of commitment to the course