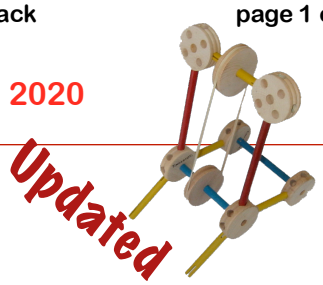
CS360 Syllabus

Effective: March 23, 2020



Course Title: **Business Information Systems Analysis and Modeling**

Catalog Description:

This course begins with business functional analysis and ends with object oriented information systems design. Students are introduced to tools and techniques enabling effective analysis, design and documentation of an information system. The student learns formal methodologies that form the basis of object-oriented systems engineering practices. Models that focus on the articulation of business functions, integrating process, data and behavioral abstractions form the core of formal methods in systems development using the Unified Modeling Language (UML).

Prerequisites: CS150.

Class Meeting Time & Place:

Section 001: Block 6 - Mon & Thurs 11:00 am - 12:20 pm
https://bentley.zoom.us/j/693390390

Section 002: Block 11 - Mon & Thurs 2:00 pm - 3:20 pm
https://bentley.zoom.us/j/406577398

Text:

Essentials of Systems Analysis and Design 6th Edition - ISBN: 978-0-13-354623-1 — ISBN: 0-13-354623-3

UML Distilled, 3rd, Fowler, Addison Wesley; ISBN 978-0321193681

and course overheads

All course materials will be accessed at this link: CS360_Materials

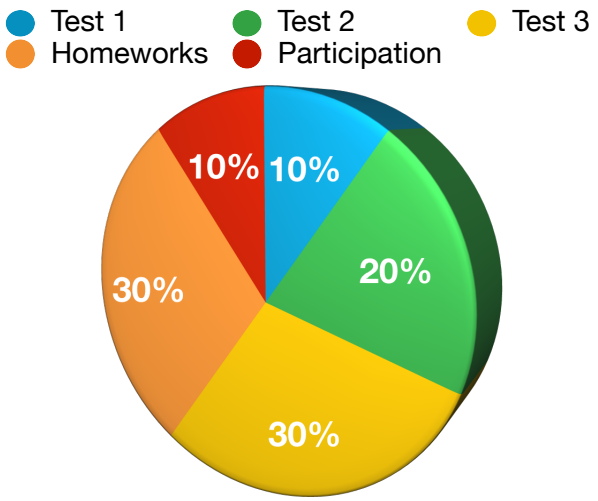
Contact Information:

LWAGUESPACK@bentley.edu

Smith 412, Office: (781) 891-2584, Home: (978) 779-5322 (before 9:00 pm)

	Week of	Lecture Material	Reading Material	slides/notes/handouts
1	1/12	Orientation Introduction to System Modeling	Valacich Chapter 1 & 2 Fowler ch 1-3	Unit 00 Orientation Unit 01 Introduction
2	1/19	System Development Life Cycle	Valacich Chapter 3 Fowler ch 4-5 Assign Checkbook!	Unit 02 SDLC OO Green Card OOM UML One & Two
3	1/26	Feasibility & Rqmts Problem Ident & Definition	Valacich Chapter 4 & 5 Fowler ch 9, 11	Unit 03 Problem ID OOM UML Two
4	2/2	Object Modeling Specification Object Modeling	Fowler ch 1-11	OO Modeling Practice
5	2/9	**Test #1 (2/13)** (weeks 1-4) Structuring Systems Requirements	Valacich Chapter 6 & 7	Unit 04 DFD Unit 05 Sys & ER Checkbook Phase 1 Due!
6	2/16	Modeling: System, Data, Files, - User Interface Design	Valacich Chapter 8 & 9 Assign Final Project!	Unit 06 Files & Forms Unit 07 Report & Query
7	2/23	Use Case and Sequence Diagramming Walk-in Counseling **Tuesday 1-4 pm**	Final Project Introduction	OOM UML Two Unit 08 Problem Solving & Design
8	3/1	User Problem Solving & Design Work Breakdown Project Management	Valacich Chapter 10 Valacich Appendix: Agile	Unit 09 Project Mgmt Checkbook Phase II Due!
9	3/8	******* Spring Break *******		
10	3/15		Final Project "counseling"	OO Modeling Practice
11	3/22	Process Modeling Process Design **Test #2** (weeks 5-8)	**"Final project modeling sprint!"**	Unit 10 Process Design Checkbook Final Option!
12	3/29	UML Mechanics and Usefulness	UML Modeling Guidelines UML Grading Checklist	OO Modeling Practice Project Phase 1 Due!
	4/5	Paying the Freight Cost/Benefit Analysis	Final Project "counseling"	Counseling Monday Unit 11 Cost/Benefit
13	4/12	Design, Modeling and Quality	Design Quality Using the OO Paradigm.pdf	Counseling Mon/Thurs: Final Project Phase II!
14	4/19 & 4/26	Review / Recap		Project Final Submission
15	Finals	**Sec. 1 - 8:00 am May 1** **Sec. 2 - 11:30 am May 5**	Test #3 "final"(weeks 1-14)	Final Project Returned

Bentley Grading Scale: 100-95:A, 90-94:A-, 87-89:B+, 83-86:B, 80-82:B-, 77-79:C+, 73-76:C, 70-72:C-, 67-69:D+, 63-66:D, 60-62:D-, <60:F



Grading Components: Test 1 - 10%, Test 2 - 20%, Test 3 - 30%, Homework - 30%, Participation - 10%

Ethical Conduct: Every Student is expected to be familiar with the Bentley College's Code of Academic Conduct concerning cheating and plagiarism.

This course contains group project work. Each student is required to author his/her own homework or take-home quiz materials aside from group project work. Students are expected to contribute equitably to the product(s) of the group. This does not mean that everyone will do the same work or the same amount of work. But, each student assumes responsibility for those tasks assigned to him/her through the group's cooperative structure and actively contributes to the project's products. Students are responsible for accounting for their individual contribution to the project and students are responsible for honestly and fairly assessing the relative merits of their own and their teammates' contribution if requested to do so by the instructor as in peer evaluations. If the pressures of the semester lead you to believe that cheating or plagiarism is a necessary option, please contact the instructor!

This course contains individual homework. Each student is required to author his/her own homework or take-home quiz materials. Students may assist one another only in the clarification of requirements or in the interpretation of the behavior of already authored program material. The authoring of material (programming, modeling or quiz related) for a student by anyone other than themselves is expressly prohibited and is a violation of the Bentley code of academic conduct by any and all parties involved. Plagiarism defeats the purpose of education for the student and violates the trust between faculty member and student as well as the trust that should coexist between students. If the pressures of the semester lead you to believe that group project "absenteeism" is a necessary option, please contact the instructor! There must be a better arrangement to defuse the situation that can be worked out without violating the Bentley code of academic conduct and risking academic sanctions.

Disability Services. Bentley University abides by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 which stipulate no student shall be denied the benefits of an education solely by reason of a disability. If you have a hidden or visible disability which may require classroom accommodations, please call Disability Services within the first 4 weeks of the semester to schedule an appointment. Disability Services is located in Academic Services (JEN 336, 781.891.2004). Disability Services is responsible for managing accommodations and services for all students with disabilities.

Dr. Waguespack's Office Schedule SMI 412

Office Schedule	monday	tuesday	wednesday	thursday	friday
"A" 8:00-9:30					
"B" 9:30-10:50	appointment only / meeting			appointment only / meeting	
"C" 11:00-12:20	CS360_001 Room SMI 212			CS360_001 Room SMI 212	
"D" 12:30-1:50					
"E" 2:00-3:20	CS360_002 Room SMI 212	scheduled meeting		CS360_002 Room SMI 212	
"F" 3:30-4:50					
"G" 5:00-6:20					
Eve 6:30-9:10					
Grad 5:00-7:20					
Grad 7:30-9:50					

Professional Day

scheduled class	scheduled meeting

Dr. Waguespack may be in his office preparing classes or pursuing private research; please arrange appointments during these times in advance!

CIS Learning Team Skills/Assignment Questionnaire

This course requires team and out of class laboratory work. In order to broaden the experience of the class members and allow for a collaborative learning environment each student will be assigned to a learning team. That team will accomplish the required laboratory assignments as a group and receive an evaluation for the completed work that will be attributed to each of the learning team members. The following questionnaire elicits academic and professional experience information that will be used to formulate the learning teams with balanced skills and experience. Please respond accurately and frankly.

Name (print): _____

Student Number: _____ Course Number: _____ Section: _____

Bentley E-Mail Address: doe_matt@bentley.edu

Please for all CIS courses taken or satisfied by other academic work and volunteer your grades:

CS150:_____ CS180:_____ CS240:_____ CS350:_____

CS280:_____ CS380:_____ CS421:_____ CS440:_____ CS460:_____ CS480:_____

Mark all computing tools listed that you are fluent using:

Word Processer: _____Spreadsheet: ___ Schedule Manager: ___ Multi-Media Editor: ___

Mark all programming languages listed that you have written programs using:

C:_____C#:_____C++:_____Java:_____ASP:_____SQL:___

MSAccess:___ JavaScript:___ Visual Basic:___

SmallTalk:___ Eiffel:___ x.Net:___ Other: _____

Have you written a program that is regularly used by others? ___

How would you rate your skill in programming? Self-Sufficient: __ Could Contribute: __ Need help: __

Do you have project experience? Yes/No:____

Have you been a manager? Yes/No:____

Please note any additional information below that would help the task group assignor in best placing you on a learning team:

_____

_____

_____