

MIS 3504 Digital Design and Innovation Studio

1: INTRODUCTION

Stephen Salvia

Photo: Installation by Jenny Holzer, US Pavillion, Venice Biennale 1990

WELCOME BACK

Stephen Salvia

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Office Hours:

Monday / Wednesday evenings 6:00 PM – 7:30 PM by phone 267.242.5439

Tuesday evening 8:00 PM 9:00 PM - after class

course overview

This course is required

This course is demanding

There is a lot of work

Grading will be tough

Assume about 10% A's

This course is **DIFFERENT**

This course is a **STUDIO**

course objectives

Primary Course Objectives

- Prepare you for the role of a modern Business Analyst
- Make you a thought leader
- Combine the strengths of Business Process Analysis with Design Inquiry to create Innovative Solutions

BA + Design Inquiry = Innovative Solutions

Course Objectives: BA

- Analyze a business process and specify requirements for improving that process
- Apply information gathering techniques to elicit requirements which will be used to compose business and technical requirements.
- Recommend information systems solutions to improve or transform business processes.
- Make "as is" vs "to be" analyses, justify proposed process information systems solutions.
- Implement and negotiate changes to requirements.
- Encourage independent and CRITICAL THINKING

Course Objectives: DESIGN

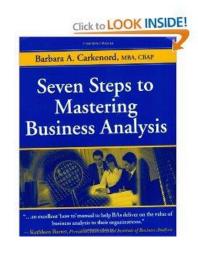
- Understand the shift from Quantitative to Qualitative thought
- Learn methods of User Centered / Ethnographic research
- Learn collaborative working methods
- Learn iterative working methods / experimentation
- Think and communicate visually
- Provide effective evaluation and CONSTRUCTIVE CRITICISM

Course Blog

http://community.mis.temple.edu/mis 3504fall2015003

Text Books

 Carkenord, Barbara A., Seven Steps to Mastering Business Analysis, J. Ross Publishing, 2009, ISBN 978-1-60427-007-5.



 Ellen Gottesdiener, <u>The Software</u> <u>Requirements Memory Jogger</u>, 2005, ISBN1-57681-060-7



Grading

ltem	Percentage
Exam 1	20%
Exam 2	20%
Exam 3	20%
Individual case assignments and class participation	20%
Team Project	20%

Exams (20% each)

- 3 exams
 - 55 minutes long
 - Multiple choice
 - Half covers all readings and class discussions
 - Half requires you to apply techniques
 - Graded 0-100%
 - Combined exams = 60% final grade

Individual Work (20%)

- Project Scope
- Process Flow and Design
- Data Diagram
- Business Rules
- JustinMind assignment
- Class Participation

Team Project (20%)

- Analysis of existing situation and proposal of a solution
- Produce a working prototype using Justinmind
- Accompanying documentation
- Team presentation
- Exercises and Assignments will help build your final submission
- Completeness and consistency are critical
- Personal project grades based on your performance, participation and peer evaluations

Assignments

- All assignments are based on the project case and contribute towards its completion
- Listed in the syllabus by week due. Due on date indicated.
- Due at the beginning of class on paper.
 Bring your work electronically also!
- Several students each week will be randomly selected to present their work for review



Classes

- Bring your assignments
 - Due at the START of class
 - Paper and ELECTRONIC_formats
 - Random people will present their work
- Come prepared to discuss and participate
 - Classes will discuss and elaborate on readings, not review them
- Class contributions
 - Say your name before you share
 - You will be called upon to share your work
 - You will be asked questions
 - Lack of preparation will affect your grade
- Classroom Etiquette
 - BE PRESENT
 - Be on time
 - Cell phones off
 - Private discussions outside
 - Bring your computer but use it for class

We may have to make adjustments

Schedule

MIS3504 Fall 2015 Class Schedule and Deliverables									
Class	Topics	Individual Assignments	Team Assignments	Individual Deliverables due	Team Deliverables due	Reading assignment	Addition Material	Topic	Exams
1 8/25/2015	Introductions BA Role Project Client / Sponsor Introduction of JustinMind		Team Assignments Team Member Introductions Turn in Team roster			Seven Steps Chpt 1		Class 1.1	
2 9/1/2015	Requirements Stakeholders		In class team work assignment:		Requirements and Stakeholder exercise	Seven Steps Chp 2 Jogger 1 - 28 Requirement overview Jogger 62 - 63 - Stakeholder Profiles	Warehouse Case_StakeHolder Stakeholder Template	Class 1.2	
3 9/8/2015	Project Scope	Develop Scope from Warehouse case - Due class 4	Team Studio work: Brainstorm on Project topics		Initial Project Topic and problem statement	Seven Steps Chp 3 Jogger 28 - 42 - Vision Statement	Dysfunctional Warehouse Case	Class 2.3	
4 9/15/2015	Elicit Requirements Interviews		Team Studio work: Meetings to discuss Project Topic	Turn in individual Warehouse scope	Finalized Project Topic and problem statement	Seven Steps Chp 4 Jogger 43 - 49 - Elicit Requirements		Class 2.4	
5 9/22/2015	Process Flow Swim lane Flowchart	Assign Sales Order Case, develop process flow and design Due class 6	Team Studio work: Develop interview questions and stakeholder indentification for Project Scope	Turn in JustinMind Prototype Introduction Lab1	Turn in team project Scope (Draft)	Seven Steps Chp6 - pages 232 - 235 Jogger122 - 126	Sales Order Case Swim lane template	Class 3.5	Exam 1 Chapter 1 , 2, 3 and 4
6 9/29/2015	Understanding Client Data Entities/Elements Introduce Project Case, Interviews	Assign Night Owl Case, develop Data and views Due class 7	Team studio work: Mock interviews Scope refinements if required	Turn in individual Process Flow and Design	Turn in team project Scope	Seven Steps Chp6 pages 235 - 237 Jogger 183 - 189	Night Owl Case	Class 4.6	
7 10/6/2015	Developing Business Rules	Assign Gas Woks Case, develop business rules and design Due class 8	Team studio work: Mock interviews Current State analysis	Turn in Individual Night OwL Data Case		Jogger 204 - 215		Class 5.7	

Schedule

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8 10/13/2014	Design Thinking		Team studio work: Mock interviews Future State Design	Turn in Individual gas works case - Business rules Case		Seven Steps Chp 7		Class 6.8		
9 10/20/2015	Create persona, user stories Creating scenario Project Case Interviews		Team studio work: Mock interviews Future State Design	Turn in JustinMind Prototype Introduction Lab 2	Current State Draft views of Data, Business rules and Process flows			Class 7.9		
10 10/27/2015	Review Process Document Business rule - Project focus		Team studio work: Protype Design		Draft views of project persona(s) and Scenario(s)			Class 8.10	Exam 2 Chapter 4 , 6 and 7	
11 11/3/2015	Selling your ides Cross team review of scenario Cross team prototype review		Team studio work: Protype Design					Class 9.11		
12 11/10/2015	Group Presentation		Peer level reviews Develop Presentation		Draft views of Prototype and Presentation			Class 10.12 Class 10.13		
13 11/17/2015	Team Presentations				Class Presentations					
11/24/2015	Thanksgiving Break									
14 12/11/2015	Team Presentations				Class Presentations Final Project Materials due					
12/8/2015	Study Day									
15 12/15/2015	Exam 3								Exam 3 - Prototyping	

Extra Credit

- 4 opportunities to earn extra credit points during the semester.
- Students are required to produce a prototype in Justinmind for each of the following class exercises:
 - Warehouse Scenario Prototype
 - Night Owl Data Prototype
 - Mortgage Program
 - Gas Company Prototype
- Students who submit prototypes that are complete AND well done will earn up to 1 point on their FINAL grade for each. (Maximum of 2 points total)

How do I get an A?

- 1. Read the material before class
- 2. Come prepared to ask questions/discuss
- 3. Put effort into doing your assignments and team critiques
- 4. Take in-class exercises seriously
- 5. Study hard for the tests
- 6. Produce a great project solution and prototype
- 7. Impress me with the quality of your work
- 8. TIMELINESS and ATTENDANCE

Break 15 minutes

What is Business Analysis?

Who is the modern Business Analyst?

What is Business Analysis?

"The set of tasks and techniques used to work as a liaison among stakeholders in order to understand the structure, policies, and operations of an organization and recommend solutions that enable the organization to achieve its goals"

> The International Institute of Business Analysis (IIBA)

Business Analysis Involves...

- Identification of business problems and opportunities
- Elicitation of needs and constraints from stakeholders
- Analysis of stakeholder needs to define requirements for a solution
- Assessment and validation of potential and actual solutions
- Management of the "product" or requirements scope

"BAs with an IT background are very **analytical** individuals . . . "

- B. Carkenord from Seven Steps to Mastering Business Analysis, p 8.

"As a DESIGNER, I am much better at synthesis than analysis . . ."

- Bill Moggridge from Designing Interactions, p 725.

analysis the separating of any material or abstract entity into its constituent elements (opposed to synthesis)

Synthesis: the combining of the constituent elements of separate material or abstract entities into a single or unified entity (opposed to analysis)

From http://dictionary.reference.com/

analysis: PULLS IT APART

synthesis: PUTS IT TOGETHER

Business analysis and Design provide a balanced approach

What are the traits of the most successful business analysts?

- Analysts enjoy learning things and have a rare combination of the ability to see both the big picture while also being very detail oriented.
- Excellent "people skills" strong listening skills. Good at asking questions and probing for missing information. Good leadership skills.
- Strong technical awareness Understands all facets of software development.
- Constantly working on improving their skill set.
- Creativity

Why would anyone want to be a BA?

- You like technology, but not so much that you want to do it all the time.
- You like solving problems
- You like working with people and understanding their needs and concerns
- You get bored easily doing the same thing over and over
- Inefficiency and lack of effectiveness annoy you

And...

Business Analyst Career Path

Title	Experience	Tasks
Junior Business Analyst	0-2 years; may have business experience or IT development experience	Elicit and document requirements for small, well-defined projects, often changes to existing systems. Ideally works with a BA men $55-60,000$
Business Analyst	2-5 years	Elicit, analyze, and document requirements for medium to large projects. Work with the project manager to scope new projects
Lead or Senior Business Analyst	5-10 years	Elicit, analyze, and document requirements for large, complex, mission of the Supervises/mentors junior Bas. Works with the business to initiate and define new projects.
Business Consultant/Client Relationship Manager	10+ years	Assist the business with strategic planning, business case development, and new product implementations. Helps to identify projects. Sets up and manages a business analyst center of excellence Average salaries from Indeed.com

 Where do business analysts come from, IT or a business unit?

Which is better?

 Who do business analysts work for, IT or a business unit?

Summary: Basic Model

Events Trigger

- Opportunities
- Problems

Steps

- 1 Analysis of the event— Ask the right questions
- 2 Design a solution What are the possibilities
- 3 Implementation Build/implement the solution

team formation

- 1 select a team liaison
- 2 exchange contact information
- 3 Liaison emails to me slsnite@temple.edu

Team Name

Team Number

List of members

Introductions

Who am !?

The Two Minute Presentation

- Short and concise summary
- Two minutes is just right
- Situational
 - Biographical background for recruiters
 - Personal & project background when meeting subject matter experts
 - Project summary for leadership (elevator speech)
- Write it out if you want

Who are **YOU**?

2 Minute Presentation Exercise

- Sit with your team
- Take 5 minutes to prepare your 2 minute biography
- Cover key points (situational)
 - Where are you from?
 - Any background information you might want to include
 - What brought you to Temple?
 - What made you want to major or minor in MIS?
 - What are you looking to do when you graduate?
 - What are your other strengths and interests?
- Each team member presents their 2 minute biographies

Congratulations! You are now a team.

What do you want to learn from the interview with a project sponsor?

Questions should be:

- Broad to start
- Appropriate for the person being interviewed
- Start general then more specific
- Open-ended

As a team: Prepared questions (in writing) in priority order

JustInMind

- Download trial program from website [http://www.justinmind.com/] Prototyper Pro Edition 6.6
- 2. Access your license key
- 3. Unlock the full version of the program
- 4. Learn how to use it

END