

DEPAUL UNIVERSITY CDM
IS 421 SYSTEMS ANALYSIS
SYLLABUS

COURSE: IS 421 – Systems Analysis

INSTRUCTOR:

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COURSE MATERIALS:

Textbook#1:



Valacich, J.S., George, J.F., & Hoffer, J.A. (2014). *Essentials of Systems Analysis and Design* (6th Ed.). Upper Saddle River, NJ: Pearson Publication.

Mode	ISBN-10	ISBN-13
Print/Paper Book (your bookstore, amazon.com, ebay.com etc.).	0133546233	9780133546231
Other Options	eBook (Kindle)	
Rent book from chegg.com	http://www.chegg.com/textbooks/essentials-of-systems-analysis-and-design-6th-edition-9780133546231-0133546233?trackid=2a88d125&strackid=373f01a3&ii=1&om_ss=1	

Textbook#2:



Kendall, K., & Kendall, J. (2014). *Systems analysis and design* (9th Ed.). Upper Saddle River, NJ: Prentice Hall.

Mode	ISBN-10	ISBN-13
Print/Paper Book (amazon.com, ebay.com etc.).	0133023443	9780133023442
Other Options	eBook (Kindle)	
Rent paper book from chegg.com	http://www.chegg.com/textbooks/systems-analysis-and-design-9th-edition-9780133023442-0133023443?trackid=2484b8b6&strackid=572a443b&autosuggest=1&ii=1&uqry=systems%20analysis%20kendall	
Rent e-textbook from chegg.com	http://www.chegg.com/textbooks/modern-systems-analysis-and-design-7th-edition-9780132991308-0132991306?trackid=20e0df1f&strackid=03a3bdb0&ii=1	

Supplementary Readings/References [you are not required to buy these books, but if you choose to buy them, know that they are good reference books for students of IS/IT; also if you choose to buy them, you could buy older editions from e-bay or amazon---no need to buy the latest editions]

	Project Management Institute. (2013). <i>A guide to the Project Management Body of Knowledge (PMBOK® Guide)</i> (5 th Ed.). Newtown Square, PA: Author. Available in Books 24x7 in DePaul's online library e-book section .	ISBN: 978-1-935-58967-9
	Bailey, Therold & Lundgaard, Kris (1989). <i>Program Design with Pseudocode</i>	ISBN: 978-0-534-09972-5
	Wang, Wallace (2008). <i>Beginning Programming for Dummies</i>	ISBN: 978-0-470-10854-3
	Any book on <i>Microsoft Visio</i> and <i>Microsoft Project</i>	

COURSE DESCRIPTION:

Course focus is on systems analysis theory and applications, a wide range of modeling techniques, and related aspects. Specific topics covered include: overview of the software development environment, project management, construction of GANTT charts and PERT network diagrams, process modeling techniques, object modeling techniques, information gathering methods and applications, introduction to entity-relationship diagrams and data flow diagrams, tools for structured decision making, quality assurance basics, and human-computer interaction basics.

PREREQUISITE COURSES: None.

COURSE OBJECTIVES:

Upon completion of this course, students will be able to:

1. Describe the systems development life cycle and other systems development models
2. Describe systems analysis and the role of the systems analyst
3. Analyze, model, and specify a system's requirements
4. Draw E-R diagrams, DFDs, Use Case Diagrams and other diagrams
5. Describe how information systems projects are initiated and managed
6. Perform requirements elicitation using appropriate techniques
7. Discuss emerging trends and systems analysis theory

**FOR FURTHER DETAILS REFER TO THE
DETAILED SYLLABUS POSTED IN D2L OR
CONTACT THE INSTRUCTOR.**