IS 421 SYSTEMS ANALYSIS
SYLLABUS
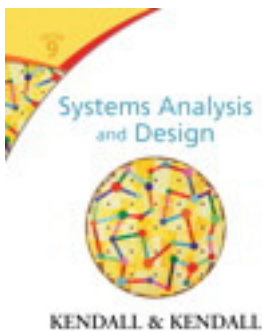
COURSE: IS 421 – Systems Analysis

INSTRUCTOR:

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COURSE MATERIALS:
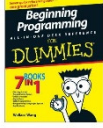
Text (REQUIRED)

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

Mode	ISBN-10	ISBN-13
Print	0133023443	9780133023442
e-text (CourseSmart)	0133023478	9780133023473
e-text (NOOKstudy)	0133024474	9780133024470
eBook (Kindle)	B00BG5VR3M (ASIN)	

Supplementary Readings/References *[you are* <u>not</u> <u>required</u> *to buy these books]*

		Project Management Institute. (2013). *A guide to the Project Management Body of Knowledge (PMBOK® Guide)* (5th 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). *Program Design with Pseudocode*	ISBN: *978-0-534-09972-5*
		Wang, Wallace (2008). *Beginning Programming for Dummies*	ISBN: *978-0-470-10854-3*
		Any book on *Microsoft Visio* and *Microsoft Project*	

COURSE DESCRIPTION:

Course focus is on systems analysis, a wide range of modeling techniques, and related aspects. Key topics covered include: overview of the software development environment, system types and characteristics, waterfall model, agile model, project management, construction of GANTT charts and PERT network diagrams, process modeling techniques, object modeling techniques, information gathering/requirements elicitation 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.