

DEPAUL UNIVERSITY CDM
IS 421 SYSTEMS ANALYSIS (AUTUMN 2014)
COURSE SYLLABUS AND CLASS SCHEDULE

COURSE:

IS 421 – Systems Analysis

START AND END DATES:

September 10 – November 25, 2014 [Mondays, 5:45 PM- 9 PM]

LOCATION:

SECTION 701 (IN-CLASS): Lewis Center, Room 1110
SECTION 710: *Distance learning session (no class room)*

INSTRUCTOR:

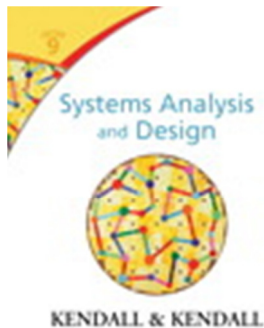
RAY Partha Sarathy

Email: rpartha1@cdm.depaul.edu; Phone: 312-362-1279

Office hours: 3:15 PM – 4:45 PM [Mondays]; Office location: CDM 709

COURSE MATERIALS:

Text (REQUIRED)

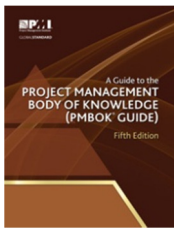


Kendall, K., & Kendall, J. (2014). *Systems analysis and design* (9th Ed.). Upper Saddle River, NJ: Prentice Hall.

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

Note the IS 421 text is also used in course IS 422- System Design, Implementation, and Maintenance.

Supplementary Readings (Recommended, but not required)



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: **9781935589679**

COURSE DESCRIPTION:

Course focus is on systems analysis, including a wide range of modeling techniques. Specific topics covered include: overview of the software development environment, project management, process modeling, information gathering, data flow diagrams and introduction to Entity-Relationship Diagrams.

PREREQUISITES: None.

COURSE OBJECTIVES:

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

1. Describe the systems development life cycle and specific life cycle models
2. Describe systems analysis and the role of the systems analyst
3. Explain how to identify functional requirements
4. Analyze, model, and specify a system's process requirements
5. Draw entity relationship diagrams
6. Describe how information systems projects are proposed and initiated
7. Compare and contrast structured and object oriented development
8. Discuss emerging trends and issues in systems analysis

COURSE SCHEDULE, TOPICS, AND ACTIVITIES:

The following course schedule is a tentative schedule, subject to modification as needed throughout the term. When changes are made, updated document will be posted on D2L. It is the student's responsibility to keep track of changes to this schedule by viewing this schedule in D2L every week. All dates/times indicated correspond to Central Standard Time CST (i.e. Chicago, USA Time Zone). Students taking the course online that reside in other countries/time zones must convert stated dates/times to their respective time zones.

Session	Date	Topics	Readings	
1	15-SEPT	Introduction/Course overview Systems Development Systems Analysis/Analyst	Kendall: Ch. 1	
2	22-SEPT	Conclude Ch. 1; Begin Ch.2; Systems Approach Intro to Data Flow Diagrams Entity Relationship Diagram	Kendall: Ch. 1 & Ch.2	
3	29-SEPT	Systems Approach Intro to Data Flow Diagrams Entity Relationship Diagrams Conclude Ch.2; Begin Ch.3;	Kendall: Ch. 2 & Ch.3	
4	6-OCT	Project Management Gantt Chart; PERT Network Critical Path Calculations	Kendall: Ch. 3	
5	13-OCT	Conclude Ch.3; Begin Ch.4; Information Gathering: Interactive & Unobtrusive Methods	Kendall: Ch. 3 Kendall: Ch. 4 & Ch. 5	
6	20-OCT	Information Gathering: Interactive & Unobtrusive Methods	Kendall: Ch. 4 & Ch. 5	
7	27-OCT	Process Specifications & Structured Decisions	Kendall: Ch. 9	
8	3-NOV	Human Computer Interaction	Kendall: Ch. 14	

Session	Date	Topics	Readings	
9	10-NOV	Quality Assurance and Implementation	Kendall: Ch. 16	
10	17-NOV	Using Data Flow Diagrams Review/wrap-up	Kendall: Ch. 7	

GRADING CRITERIA:

Item	% Value
Homework assignments and quizzes	60
Final exam	35
Participation (in-class or discussion forums)	5
Total	100

OTHER COURSE INFORMATION, POLICIES AND PROCEDURES:

Readings- To understand the subject matter better and get the full benefit of the class lecture, it is recommended that you come prepared to class by reading the concerned textbook chapter before coming to class. It is expected that students that have registered for the distance learning/on-line class session of this course (course section 710) will regularly log into the course web site (D2L) and stay up to date with the course progress. It is expected of all graduate students that they will read the textbook and not be reliant on the class lecture PowerPoint slides alone. Quizzes, homeworks and final exam could be based on the material presented in the textbook, as well as the material presented in the class lecture PowerPoint slides.

Homework Assignments - Answers must be neatly typed using MS Word. When diagrams are called for, they must be preferably drawn using any software of your choice. Handwritten answers will not be graded. All answers must be consolidated into one MS Word document (“cut/paste” diagrams into the Word document if necessary). Upload only one file per homework assignment into the appropriate drop box in D2L. Multiple submissions are NOT ALLOWED. If you need further clarification in this matter, please talk to the instructor.

To produce the diagrams that are created in systems analysis (for example, data flow diagrams and

entity relationship diagrams), you may use a software drawing tool that you know.

Here are some commonly used Microsoft tools that are easily available to you:

- Microsoft Visio
- Microsoft Word, PowerPoint, or Excel

Late assignments – Late assignments will be penalized. In general, you will lose 25% of the possible credit if submitted 1-3 days after the date due, 50% of the credit if submitted 4-7 days after the date due, and 100% of the credit if submitted more than 7 days after the due date.

Quizzes- Quizzes that are offered through D2L will be open in D2L during the times indicated. Some quizzes may be non-D2L quizzes at the discretion of the instructor (refer to the syllabus/course schedule or contact instructor). Please make sure you take the quizzes by the stated deadlines. Further instructions regarding quizzes will be provided by the instructor in-class.

Participation (In-class or discussion forums):

Students that have registered for the *in-class session of this course (course section 701)* are expected to attend class regularly and actively participate by asking questions, and voicing your comments (in an appropriate and professional manner). Students that have registered for the in-class session of this course are NOT REQUIRED TO POST WEEKLY in the on-line discussion forum in D2L.

Students that have registered for the *distance learning/on-line class session of this course (course section 710)* will participate in discussions by posting their comments in the on-line discussion forum which has been created for the purpose in D2L. For the distance learning students, you must post in the D2L discussion folder within the timeframes specified. On-line students MUST post a minimum of one comment every week in the appropriate on-line forum in D2L (on-line discussion folders have been created by *date order* in D2L. The discussion board remains open only during the stated period for each week's discussion. Please be sure to post your comments before the discussion board for a particular weeks closes/locks. If you have any questions in this regard, please contact instructor ASAP).

Lecture PowerPoint Slides- The complete set of lecture PowerPoint slides for a particular chapter will be posted on D2L for a period of one week from the date the lecture on the chapter concluded in the class room. It is the student's responsibility to download the slides, and save or print them during this time period. After the one week period, the PowerPoint slides will be removed from D2L and

will not be posted again during the term. It is hoped that because of this arrangement, students will access the lecture PowerPoint's, read them, and save/print them earlier than they normally would have, had the slides been made available to them on D2L throughout the term. This is also to encourage the graduate students to refer to the textbook instead of being completely reliant on the lecture slides alone. However to help students with taking notes as a particular chapter is being taught, the "outline slides" (contains only key headings and a general outline of how the lecture will progress) will be posted each week and will remain posted throughout the term on D2L.

D2L (website: d2l.depaul.edu)

Desire2Learn (D2L) will be the primary website for you to view/submit course content, including the syllabus & course schedule, homework assignments, and grades. Quizzes and exams may also be administered on D2L. To learn more about D2L or for technical assistance contact DePaul Technical Support Department (312-362-8765).

DePaul CDM COLTUBE (website: coltube.cdm.depaul.edu)

Videos may be posted here for students to view. To learn more about COLTUBE or for technical assistance contact DePaul Technical Support Department (312-362-8765).

DePaul UNIVERSITY LIBRARIES (website: library.depaul.edu)

To learn more about the DePaul University Libraries contact the DePaul Loop Library (312-362-8433).

Communication

If you have questions or special circumstances – no matter how minor -- let the instructor know right away. Don't wait! This class moves quickly, especially since DePaul University CDM runs on a quarter system. Timely communication is vital to ensure things go smoothly. You are welcome to come and see the instructor during office hours to discuss relevant matters.

Plagiarism

The matter of plagiarism is taken very seriously. Please note the following:

- 1) When you paraphrase someone else's ideas, cite your source
- 2) If someone else says it best, use a direct quote and cite your source
- 3) A "close paraphrase" - where you rearrange or replace a few words - counts as a direct quote

Unless indicated otherwise, your written materials are supposed to be your essays (i.e. the student's independent work). It is highly recommended for you to support your essays with credible source material--It makes your writing more credible, and it demonstrates effort and commitment. But the source material should *support* your words, not *replace* them. A very rough rule of thumb is that no more than 10-20% of your essays should be direct quotes from a source. For a refresher on how to cite, see <http://condor.depaul.edu/writing/writers/citations.html>.

This course will be subject to the university's academic integrity policy. More information can be found at <http://academicintegrity.depaul.edu/>. Appropriate action will be taken against students indulging in plagiarism, in accordance with DePaul University rules and regulations.

Distance Learning Students

If you are enrolled in the distance learning section, read [the pages at CDM's Online Learning site](#). The [Frequently Asked Questions page](#) is particularly useful.

Use of Mobile Technology in Class

Please shut off your mobile phones when you enter the class room. Laptops, tablets and smartphones are not allowed to be used when the class is in session, since it is difficult for the instructor to verify if the students are using them for taking notes (or other genuinely learning related purposes), or for activities that disrupt the learning process (such as reading news, sports or checking emails). If you must check your email or make a phone call, you may either do so during the break, or if inevitable, step outside the class without making noise or disturbing the students that are present in the class.

Academic Calendar

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information regarding this can be found at: <http://www.cdm.depaul.edu/Current%20Students/Pages/Enrollment-Policies.aspx>

The DePaul University academic calendar with specific dates for adding classes or dropping classes can be found at:

<http://offices.depaul.edu/oaa/academic-calendar/Pages/Full-Year-2014-2015.aspx>

Students with Disabilities

The Center for Students with Disabilities (CSD) coordinates DePaul University's provision of accommodations and other services to students with disabilities pursuant to the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. More information can be found at:

<http://www.depaul.edu/university-catalog/academic-handbooks/graduate/university-resources/Pages/center-for-students-with-disabilities.aspx>

Attitude

A professional and academic attitude is expected throughout this course. Measurable examples of non-academic or unprofessional attitude include but are not limited to: talking to others when the instructor is speaking, mocking another's opinion, cell phones ringing, emailing, texting or using the internet whether on a phone or computer. If any issues arise a student may be asked to leave the classroom. The professor will work with the Dean of Students Office to navigate such student issues.

Questions or Clarifications?

If you have questions or need clarifications with respect to anything stated in this document, please contact instructor.