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**SE 430: OBJECT-ORIENTED MODELING**  
**2013 FALL SYLLABUS**

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<b>Lecturer:</b>	Mr. Ken Yu
<b>Email:</b>	<a href="mailto:kyu@cdm.depaul.edu">kyu@cdm.depaul.edu</a>
<b>Online:</b>	D2L ( <a href="https://d2l.depaul.edu">https://d2l.depaul.edu</a> )
<b>Required Text:</b>	<i>UML Distilled: A Brief Guide to the Standard Object Modeling Language: 3<sup>rd</sup> edition</i> Martin Fowler (isbn: 1890774448)
	On Safari: <a href="http://proquestcombo.safaribooksonline.com.ezproxy2.lib.depaul.edu/book/software-engineering-and-development/uml/0321193687">http://proquestcombo.safaribooksonline.com.ezproxy2.lib.depaul.edu/book/software-engineering-and-development/uml/0321193687</a>
<b>Optional Text:</b>	Elements of UML 2.0 Style Scott Ambler (isbn: 0-521-61678-6)
	On Books24x7 <a href="http://library.books24x7.com.ezproxy2.lib.depaul.edu.ezproxy1.lib.depaul.edu/toc.aspx?bookid=16163">http://library.books24x7.com.ezproxy2.lib.depaul.edu.ezproxy1.lib.depaul.edu/toc.aspx?bookid=16163</a>
<b>In class</b>	Thursday 5:45 – 9:00pm (Lewis 1207)
<b>Office hours</b>	Thursday 9:00-9:30pm (after class) Tuesday 8:00-9:00pm (Collaboration link on D2L)

### Course Description:

Object oriented modeling techniques for analysis and design. Provides the tools and techniques needed to solve the problems in an object oriented manner using the most effective elements of the Unified Process. The course covers the essential concepts and notation of the Unified Modeling Language (UML), standard notation for object-oriented analysis and design.

### Prerequisites:

CSC 403 Data Structures II.

### Learning outcomes:

After taking this course, the students should be able to

- Choose the appropriate software development process elements and UML artifacts for a given development problem. (Week 1)
- Explain the differences among different plan-driven software development process phases; apply the techniques defined for each phase; and create the appropriate artifacts for each phase. (Week 1 and each week)
- Create user stories and a use case model to capture and document the functional requirements of a system. (Week 2)
- Identify essential non-functional requirements of a system. (Week 2)
- Create a domain model of an arbitrary problem domain. (throughout the quarter)
- Explain the role of architecture in software development and its connection to analysis and design. (Week 1)
- Create a visual model of the dynamic behavior of a software system using UML diagrams. (throughout the quarter)
- Create a visual model of the static structure of a software system using UML diagrams. (throughout the quarter)

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**Schedule (\*\*\*) may be updated as needed during the course of the quarter (\*\*\*)**

<b>Schedule</b>	<b>Topic</b>	<b>Reading Covered</b>	<b>Homework</b>
Week 1 9/12	Overview and Development Process	1, 2, 3	
Week 2 9/19	Requirements - Use Case	3	
Week 3 9/26	Analysis – Static Diagrams Class Diagram	3	HW1 Due
Week 4 10/3	Analysis – Behavioral Diagrams Sequence Diagram, Activity Diagram, State Machine Diagram	4, 11	HW2 Due
<b>Week 5</b> <b>10/10</b>	<b>Midterm</b>		
Week 6 10/17	Design – Static Diagram - I Component diagram, Deployment diagram	8, 13, 14,	
Week 7 10/24	Design – Static Diagram - II Package Diagram, Class diagram, Object diagram, Composite Structure Diagram	5, 6, 7	
Week 8 10/31	Design – Behavior Diagram - I Sequence Diagram, Activity Diagram	4, 11	HW3 Due
Week 9 11/7	Design – Behavior Diagram – II State Machine Diagram, Communication Diagram, Timing Diagram, and Interaction Overview Diagram	10, 15, 16, 17	
Week 10 11/14	Introduction to Patterns		HW4 Due
<b>Week 11</b> <b>11/21</b>	<b>Finals</b>		

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### **Grade Policies**

The grade break down will be as follows:

**20% Midterm**

**30% Final**

**10% Participation**

- In class
  - Actively participate in weekly discussion, this means more than just show up for class
  - If you miss one of the classes, participate online for the week
  - Grading (Weekly based on 7 weeks)
    - 0% - Not signed in and didn't participate in online
    - 70% - Sign in sheet but leave early but or arrive late or being a lump of log
    - 100% - Participate in class discussion
- Online
  - Each module's question for threaded discussions is visible and open for posting during the course.
  - Post your thoughts early each week to provide time for others to respond. This will also enable you to respond to their posts. Late posts may not provide enough time for others to dialogue with you.
  - Your posts are graded on:
    - participation in each week's threaded discussion by providing an answer to that module's question;
      - Responding to a minimum of two other student posts with insight; and
      - How well you evidence critical thinking by adding to course knowledge and perspective in your posts.
  - Grading (Weekly based on 7 weeks)
    - 0% - Missing in action
    - 70% - Single word/phrase question/answer
    - 100% - Full participation (multiple multi sentence question/answer)
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**40% HW**

The homework is due on the day of the class. I will be going over the assignment during the class so NO late work will be accepted. The assignments MUST be posted to D2L. Please see each assignment for the grading details.

		B+	87-89	C+	77-79	D+	67-69
A	93+	B	83-86	C	73-76	D	63-66
A-	90-93	B-	80-82	C-	70-72	D-	60-62

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## *Course Policies*

### Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email.

### Online Course Evaluations

Instructor and course evaluations provide valuable feedback that can improve teaching and learning. The greater the level of participation, the more useful the results. As students, you are in the unique position to view the instructor over time. Your comments about what works and what doesn't can help faculty build on the elements of the course that are strong and improve those that are weak. Isolated comments from students and instructors' peers may also be helpful, but evaluation results based on high response rates may be statistically reliable (believable). As you experience this course and material, think about how your learning is impacted. Your honest opinions about your experience in and commitment to the course and your learning may help improve some components of the course for the next group of students. Positive comments also show the department chairs and college deans the commitment of instructors to the university and teaching evaluation results are one component used in annual performance reviews (including salary raises and promotion/tenure). The evaluation of the instructor and course provides you an opportunity to make your voice heard on an important issue – the quality of teaching at DePaul. Don't miss this opportunity to provide feedback!

### Academic Integrity and Plagiarism

This course will be subject to the academic integrity policy passed by faculty. More information can be found at <http://academicintegrity.depaul.edu/>.

The university and school policy on plagiarism can be summarized as follows: Students in this course should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work any assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

### Withdrawal

Students who withdraw from the course do so by using the Campus Connection system (<http://campusconnect.depaul.edu>). Withdrawals processed via this system are effective the day on which they are made. Simply ceasing to attend, or notifying the instructor, or nonpayment of tuition, does not constitute an official withdrawal from class and will result in academic as well as financial penalty.

### Retroactive Withdrawal

This policy exists to assist students for whom extenuating circumstances prevented them from meeting the withdrawal deadline. During their college career students may be allowed one medical/personal administrative withdrawal and one college office administrative withdrawal,

each for one or more courses in a single term. Repeated requests will not be considered. Submitting an appeal for retroactive withdrawal does not guarantee approval.

College office appeals for CDM students must be submitted online via MyCDM. The deadlines for submitting appeals are as follows:

Autumn Quarter: Last day of the last final exam of the subsequent winter quarter  
Winter Quarter: Last day of the last final exam of the subsequent spring quarter  
Spring Quarter: Last day of the last final exam of the subsequent autumn quarter  
Summer Terms: Last day of the last final exam of the subsequent autumn quarter

### Excused Absence

In order to petition for an excused absence, students who miss class due to illness or significant personal circumstances should complete the Absence Notification process through the Dean of Students office. The form can be accessed at <http://studentaffairs.depaul.edu/dos/forms.html>. Students must submit supporting documentation alongside the form. The professor reserves the sole right whether to offer an excused absence and/or academic accommodations for an excused absence.

### Incomplete

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. CDM policy requires the student to initiate the request for incomplete grade before the end of the term in which the course is taken. Prior to submitting the incomplete request, the student must discuss the circumstances with the instructor. Students may initiate the incomplete request process in [MyCDM](#).

- All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval.
- If approved, students are required to complete all remaining course requirement independently in consultation with the instructor by the deadline indicated on the incomplete request form.
- By default, an incomplete grade will automatically change to a grade of F after two quarters have elapsed (excluding summer) unless another grade is recorded by the instructor.
- An incomplete grade does NOT grant the student permission to attend the same course in a future quarter.

### Students with Disabilities

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at: Student Center, LPC, Suite #370

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Phone number: (773)325.1677

Fax: (773)325.3720

TTY: (773)325.7296

Attendance: Students are expected to attend each class and to remain for the duration. Coming 15 minutes late or leaving 15 minutes early constitutes an absence for the student. The overall grade for participation drops one-third after any absence. Three absences for any reason, whether excused or not, may constitute failure for the course.

Class Discussion: Student participation in class discussions will be measured in two ways. First, students are highly encouraged to ask questions and offer comments relevant to the day's topic. Participation allows the instructor to "hear" the student's voice when grading papers. Secondly, students will be called upon by the instructor to offer comments related to the reading assignments. Students must keep up with the reading to participate in class discussion.

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.

Civil Discourse: DePaul University is a community that thrives on open discourse that challenges students, both intellectually and personally, to be [Socially Responsible Leaders](#). It is the expectation that all dialogue in this course is civil and respectful of the dignity of each student. Any instances of disrespect or hostility can jeopardize a student's ability to be successful in the course. The professor will partner with the Dean of Students Office to assist in managing such issues.

Cell Phones/On Call: If you bring a cell phone to class, it must be off or set to a silent mode. Should you need to answer a call during class, students must leave the room in an undistruptive manner. Out of respect to fellow students and the professor, texting is never allowable in class. If you are required to be on call as part of your job, please advise me at the start of the course.