SIE 277 Fall 2018 Object-Oriented Modeling and Design  
MWF 12:00 - 12:50 PM, AME Room 212

Course Description  
Modeling and design of complex systems using all views of the Unified Modeling Language (UML). Most effort will be in the problem domain (defining the problem). Some effort will be in the solution domain (designing and/or producing hardware or software)

Course Prerequisites or Co-requisites  
ECE 175 or C SC 127A.

Instructor and Contact Information  
Sherilyn Keaton, ENGR 256 A, (520) 621-9554, keatons@email.arizona.edu  
Office Hours: MW 1:15 – 3:00 PM and by appointment including phone and video conferences  
Teaching Assistants: TBA

Course Format and Teaching Methods  
The course will include lectures, in-class activities and discussion, projects, web-delivered content, and intermittent assessment.

Course information and material including lectures, announcements, quizzes, grades, and FAQs will be posted on the course’s D2L site. Students are expected to visit the D2L site frequently to stay up-to-date during the semester.

Course Objectives and Expected Learning Outcomes  
By the end of this course, students should be able to do the following:

▪ Develop models of systems, which may contain software and non-software components,
▪ Represent these models using the Unified Modeling Language (UML),
▪ Design systems (software) starting from the business and requirements model (via use cases), to the analysis model, to the design model, to the implementation model and finally to the operational model.

Grading Scale and Distribution  
Semester grades use Regular Grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90% - 100%</td>
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<tr>
<td>B</td>
<td>80% - 89%</td>
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<tr>
<td>C</td>
<td>70% - 79%</td>
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<tr>
<td>D</td>
<td>60% - 69%</td>
</tr>
<tr>
<td>E</td>
<td>0% - 59%</td>
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</tbody>
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Semester grades will be based on the following components:

▪ 10% Homework and Class Participation
▪ 10% In-class Quizzes
▪ 20% First Midterm Exam
▪ 20% Second Midterm Exam
▪ 20% Project
▪ 20% Final Exam

Required Texts or Readings
This textbook is required and reading assignments will begin immediately in this course.


Software
We will use Enterprise Architect (http://www.sparxsystems.com) this semester. All students will be required to do homework and projects using Enterprise Architect. We will provide software and installation instructions before you start using the software.

Reference
- Official UML website: http://www.uml.org/

Project Due Date and Final Examination Date and Time

Project Deadline: TBD
Final Examination: Thursday 12/13/2018 10:30 am - 12:30 pm

Absence and Class Participation Policy
Unless it is an emergency, you are required to send a request via email well in advance of any class or deadline that you might miss.

The UA’s policy concerning Class Attendance, Participation, and Administrative Drops is available at: http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable, http://policy.arizona.edu/human-resources/religious-accommodation-policy.

Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored. See: https://deanofstudents.arizona.edu/absences

Participating in the course and attending lectures and other course events are vital to the learning process. As such, attendance is required at all lectures and discussion section meetings. Students who miss class due to illness or emergency are required to bring documentation from their health-care provider or other relevant, professional third parties. Failure to submit third-party documentation will result in unexcused absences.

In-class activities and assignments are a collaborative effort. If you miss a class meeting you are required to do any in-class assignments that were done by the class the day that you missed. If the assignment was to be handed in then you are responsible for handing in the work as a solo activity and denote that on the work and in the submission folder. You must hand in the work before the start of the next class meeting time. You are allowed to hand in up to 2 solo activities,
after that you will receive no credit for the work.

**Classroom Behavior Policy**
To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

**Threatening Behavior Policy**
The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See [http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students](http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students).

**Accessibility and Accommodations**
Our goal in this classroom is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For additional information on the Disability Resource Center and reasonable accommodations, please visit [http://drc.arizona.edu](http://drc.arizona.edu).

If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate.

Please be aware that the accessible table and chairs in this room should remain available for students who find that standard classroom seating is not usable.

**Code of Academic Integrity**
Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See: [http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity](http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity).

The University Libraries have some excellent tips for avoiding plagiarism, available at [http://new.library.arizona.edu/research/citing/plagiarism](http://new.library.arizona.edu/research/citing/plagiarism).

Re-distributing class notes and / or other course materials is not permitted without the instructor’s express written consent. This includes student notes or summaries that substantially reflect lectures or other materials. These resources are made available only for personal use by students. This would not prevent students from sharing notes on an individual basis for personal use. Violations to this and other course rules are subject to the Code of Academic Integrity and may result in course sanctions and may also constitute copyright infringement.

**UA Nondiscrimination and Anti-harassment Policy**
The University is committed to creating and maintaining an environment free of discrimination; see [http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy](http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy).

Our classroom is a place where everyone is encouraged to express well-formed opinions and their reasons for those opinions. We also want to create a tolerant and open environment where such opinions can be expressed without resorting to bullying or discrimination of others.

**Additional Resources for Students**
UA Academic policies and procedures are available at [http://catalog.arizona.edu/policies](http://catalog.arizona.edu/policies)

Student Assistance and Advocacy information is available at
Confidentiality of Student Records

Subject to Change Statement
Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.