# CMPE 58W.01 SP.TP.ADVANCED REQUIREMENTS ENGINEERING

# Syllabus

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**Course Description**: The course provides students with in-depth knowledge on the field of requirements engineering (RE). The course is inevitably interdisciplinary, for RE is intended to elicit the vague, informal needs from the stakeholders and build a precise, formal specification for a software system to build.

Upon completion of the course, the student:

* Can design an empirical study to validate a solution in the RE field
* Can read and comprehend state-of-the-art literature in the RE field
* Can replicate and improve RE solutions

**Text Book**:

There is no mandatory textbook for the course. The instructor will provide reading material for the course each week.

**Evaluation** (subject to change):

* In class participation to discussions (30%)
* Term project (40%)
* Final Exam (30%)

**Topics to be covered**:

* Empirical studies in requirements engineering
* Requirements categorization
* Legal requirements
* Requirements modeling
* Information extraction from requirements documents
* Requirements defects
* Traceability
* Test generation from requirements

**Notes:**

* You can follow the announcements about the course from Moodle.
* Attendance to presentations, submitting the project and taking the final exam are obligatory. You will fail the course even if you receive sufficient grade if you fail to do so.
* Attendance for lectures is obligatory.