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**Cmpe 49H SP.TP. SOFTWARE REQUIREMENTS ENGINEERING**

**Course Description:**

Examine the fundamentals of Requirements Engineering and goal oriented modeling approach to requirements specification and design a requirements document.

**Textbook:**

Requirements Engineering, Axel van Lamsweerde, Wiley

**Syllabus:**

A. Fundamentals

1. Introduction

2. Domain Understanding and elicitation

3. Requirements Evaluation

4. Requirements Specification and Documentation

5. Requirements Quality Assurance

B. Building System Models for Requirements Engineering

1. System objectives and Goal diagrams

2. Obstruction model

3. Modeling conceptual objects

4. System Agents and responsibilities

 5. Modeling system operations

 6. Modeling system behavior

**Grading:**

Midterm 1: In class presentation 33%

Midterm 2: Requirements document design (Take home) 34%

Final : In class written 33%