Software Requirements Engineering (CEN 6075) - 3 credits

Principles of requirements elicitation, specification and analysis. A broad range of methods will be presented in the context of how they support these principles. Both functional and nonfunctional requirements will be addressed. Other topics include problem analysis, modeling, requirements documentation, and prototyping.

Instructor: Dr. Michael VanHilst, Assistant Professor, Department of Computer Science and Engineering, Florida Atlantic University.

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Studio / Class Time: Tuesday and Thursday 3:30-4:50 P.M.

Course Objectives: Preparation in the practices and discipline of requirements engineering.
1. Understand major concepts and issues in requirements engineering
2. Understand basic principles and practices of requirements engineering
3. Understand issues and practices of requirements representation and traceability
4. Experience with one or more practices in requirements analysis
5. Familiar with major recent trends and papers in requirements engineering

Textbook:

This is an excellent text that presents the practice of requirements management in a clear and readable form. The authors get it right, and make it seem easy.

Prerequisites: CEN 4010, CEN 5035, or other introductory course in software engineering

Grading Policy: Grades will be determined primarily from the following
1. Two exams 40%
2. Chapter quizzes (online and timed) 10%
3. Homework assignments 50%

We will follow the book to learn the full set of practices involved in requirements management. In addition, we will be using a professional requirements management tool, and learning to use the Alloy formal specification language. Course readings will be supplemented by recent journal articles.