Description: Architecture design and representation and the methodologies used to obtain them. Approaches based on system engineering constructs such as object orientation and service oriented architectures are used to design architectures and then represent them in conformance with an architecture framework such as DoDAF. Executable models of the architecture are derived to be used for architecture evaluation. Examples from current practice are used.

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Course notes and collateral readings will be made available for downloading through Blackboard. There are also ten papers that cover some of the material in the course and present several examples. No textbook is required; however, it will be a good idea to have a textbook on UML and Object Oriented design.

Homework: There are weekly reading assignments and homework assignments (architecture design and evaluation).

Grading: Homework sets will count for 50% of the final grade. The midterm presentation will count for 20% of the grade, and the in-class final examination for 30%.

The George Mason University Honor Code can be found at http://oai.gmu.edu/the-mason-honor-code-2/