SE6362 - Advanced Software Architecture and Design

**SE 6362 (CS 6362)** Advanced Software Architecture and Design (3 semester credit hours) Concepts and methodologies for the development, evolution, and reuse of software architecture and design, with an emphasis on object-orientation. Identification, analysis, and synthesis of system data, process, communication, and control components. Decomposition, assignment, and composition of functionality to design elements and connectors. Use of non-functional requirements for analyzing trade-offs and selecting among design alternatives. Transition from requirements to software architecture, design, and to implementation. State of the practice and art. Prerequisite: **CE 5354** or **CS 5354** or **SE 5354**. (3-0) S (2016-02-05 23:56:08)