

CSC441: Software Engineering

This course introduces students to database systems, topics include: Concepts of software engineering (the product and the process), conventional methods for software engineering, system engineering, analysis concepts and principles, analysis modeling, design concepts and principles, architectural design, user interface design, component level design, software testing techniques, software testing strategies and technical metrics for software. Object oriented software engineering (object- oriented concepts and principles, analysis, design, testing and technical metrics for object – oriented systems). Advanced topics in software engineering: formal methods, component-based software engineering, client/server software engineering, web engineering, reengineering, and computer – aided software engineering.