

CS6312 - Scalable Implementation of Data Structures and Algorithms

[CS 6312](#) Scalable Implementation of Data Structures and Algorithms (3 semester credit hours) This course focuses on scalable implementation of various data structures and algorithms. Design and implement data structures for a given situation. Evaluate the performance of various data structures and algorithms for inputs of very large sizes. Through experimental studies of several algorithms, understand that constants in asymptotic bounds have significant performance impact. Implement short projects every week and several long projects. Prerequisite: [CS 5343](#). Corequisite: [CS 6363](#). (3-0) Y