

# CE3345 - Data Structures and Introduction to Algorithmic Analysis

[CE 3345](#) Data Structures and Introduction to Algorithmic Analysis (3 semester credit hours)  
Analysis of algorithms including time complexity and Big-O notation. Analysis of stacks, queues, and trees, including B-trees. Heaps, hashing, and advanced sorting techniques. Disjoint sets and graphs. Course emphasizes design and implementation. Prerequisites: (([CE 2305](#) or [CS 2305](#)) with a grade of C or better or (Data Science major and [MATH 3315](#))) and ([CE 2336](#) or [CS 2336](#) or [CS 2337](#)) with a grade of C or better. Prerequisite or Corequisite: ([CS 3341](#) or [SE 3341](#) or [ENGR 3341](#)) or (Data Science major and [STAT 3355](#)). (Same as [CS 3345](#) and [SE 3345](#)) (3-0) S