**CS4349 - Advanced Algorithm Design and Analysis**

**CS 4349** Advanced Algorithm Design and Analysis (3 semester credit hours) Asymptotic analysis, recurrences, and graph algorithms. Algorithm design techniques such as greedy method, dynamic programming, and divide-and-conquer. Issues from computational complexity. Course emphasizes a theoretical approach. Prerequisites: **CS 3305** with a grade of C or better, and (**CE 3345** or **CS 3345** or **SE 3345** or **TE 3345**). (3-0) S